

- Metallized polyester
- According to CECC 30401-042, IEC 60384-2, DIN 44122

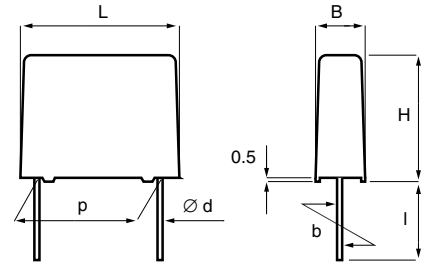


## TYPICAL APPLICATIONS

Bypassing, signal coupling. General purpose for highest reliability.

## CONSTRUCTION

Metallized polyester film capacitor. Radial leads of tinned wire are electrically welded to the contact metal layer on the ends of the capacitor winding. Encapsulation in self-extinguishing material meeting the requirements of UL 94V-0.



## TECHNICAL DATA

Rated voltage  $U_R$ , VDC  
Rated voltage  $U_R$ , VAC

|    |    |     |     |     |     |      |
|----|----|-----|-----|-----|-----|------|
| 50 | 63 | 100 | 250 | 400 | 630 | 1000 |
| 30 | 40 | 63  | 160 | 200 | 220 | 250  |

Capacitance,  $\mu F$

|       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|
| 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| -10.0 | -82   | -56   | -22   | -10   | -4.7  | -1.5  |

Capacitance tolerance

$\pm 20\%$ ,  $\pm 10\%$  standard,  $\pm 5\%$ .

Category temperature range

$-55 \dots +100^\circ C$

Voltage derating

Above  $+85^\circ C$  DC and AC voltage derating is  $1.25\%/^\circ C$ .

Rated temperature

$+85^\circ C$

Climatic category

IEC 60068-1, 55/100/56  
DIN 40040, FME  
 $-55 \dots +100^\circ C$   
Average relative humidity  $\leq 75\%$   
RH = 95% for 30 days per year.  
RH = 85% for further days limited by average value per year, occasional slight condensation permitted.

Test voltage

$1.6 \times U_R$  VDC for 2s

Capacitance drift

Max. 2% after a 2 year storage period at a temperature of  $+10 \dots +40^\circ C$  and a relative humidity of 40...60%.

Reliability

Operational life  $> 200\,000$  h.  
Failure rate  $< 3$  FIT,  $T = +40^\circ C$ ,  $U = 0.5 \times U_R$ .  
Failure criteria according to DIN 44122.

Maximum pulse steepness:

$dU/dt$  according to article table.  
For peak to peak voltages lower than rated voltage ( $U_{pp} < U_R$ ), the specified  $dU/dt$  can be multiplied by the factor  $U_R/U_{pp}$ .

Temperature coefficient

$+400 (\pm 200)$  ppm/ $^\circ C$  at 1 kHz

Self inductance

Approximately 6 nH/cm for the total length of capacitor winding and the leads.

| p              | d   | std l    | max l | b         |
|----------------|-----|----------|-------|-----------|
| $5.0 \pm 0.4$  | 0.5 | $4^{+1}$ | 30    | $\pm 0.4$ |
| $7.5 \pm 0.4$  | 0.6 | $4^{+1}$ | 30    | $\pm 0.4$ |
| $10.0 \pm 0.4$ | 0.6 | $4^{+1}$ | 30    | $\pm 0.4$ |
| $15.0 \pm 0.4$ | 0.8 | $4^{+1}$ | 30    | $\pm 0.4$ |
| $22.5 \pm 0.4$ | 0.8 | $4^{+1}$ | 30    | $\pm 0.4$ |
| $27.5 \pm 0.4$ | 0.8 | $4^{+1}$ | 30    | $\pm 0.4$ |
| $37.5 \pm 0.5$ | 1.0 | $4^{+1}$ | 30    | $\pm 0.7$ |

## TECHNICAL DATA

### Dissipation factor $\tan\delta$

Maximum values at +23°C

|                 |         | $C \leq 0.1 \mu\text{F}$ | $0.1 \mu\text{F} < C \leq 1.0 \mu\text{F}$ | $C > 1.0 \mu\text{F}$ |
|-----------------|---------|--------------------------|--------------------------------------------|-----------------------|
| MMK5            | 1 kHz   | 0.8%                     | 0.8%                                       | 0.8%                  |
|                 | 10 kHz  | 1.2%                     | 1.2%                                       | 1.5%                  |
|                 | 100 kHz | 2.5%                     | 3.0%                                       |                       |
| MMK7.5 ... 37.5 | 1 kHz   | 0.8%                     | 0.8%                                       | 1.0%                  |
|                 | 10 kHz  | 1.5%                     | 1.5%                                       |                       |
|                 | 100 kHz | 3.0%                     |                                            |                       |

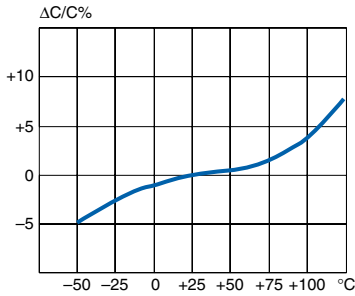
### Insulation resistance

Minimum values between terminals.

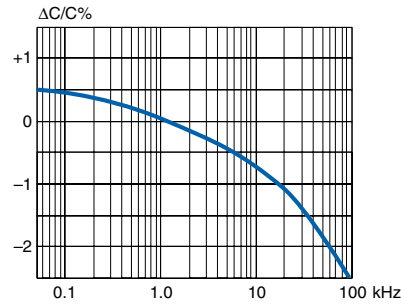
Measured at +20°C, according to IEC 60384-2.

|                        | $C \leq 0.33 \mu\text{F}$ | $C > 0.33 \mu\text{F}$ |
|------------------------|---------------------------|------------------------|
| $U_R \leq 100\text{V}$ | 15000 MΩ                  | 5000 s                 |
| $U_R > 100\text{V}$    | 30000 MΩ                  | 10000 s                |

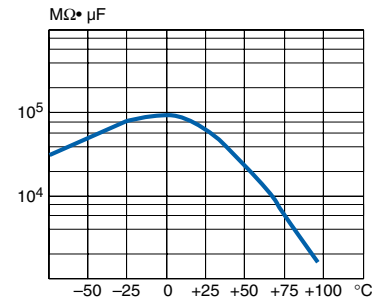
## TYPICAL DATA



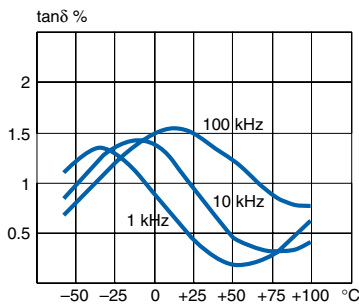
Capacitance vs.  
temperature (at 1 kHz)



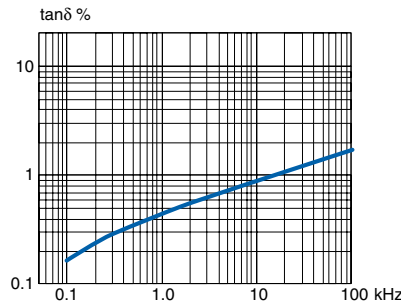
Capacitance vs.  
frequency (at +23°C)



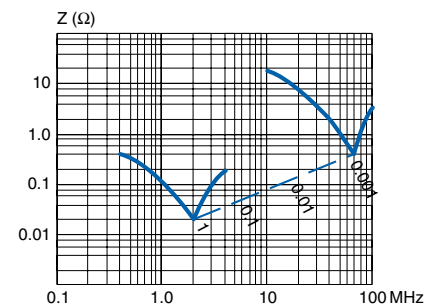
Insulation resistance vs.  
temperature



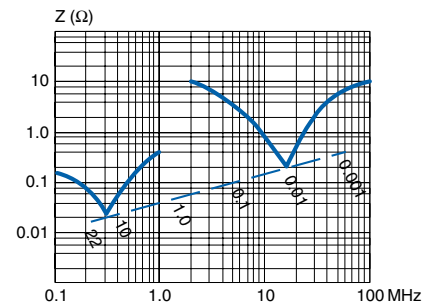
Dissipation factor vs.  
temperature



Dissipation factor vs.  
frequency (at +23°C)

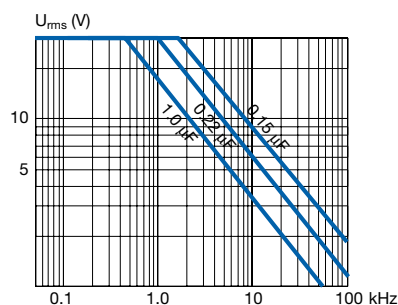


Resonance frequencies  
MMK 5

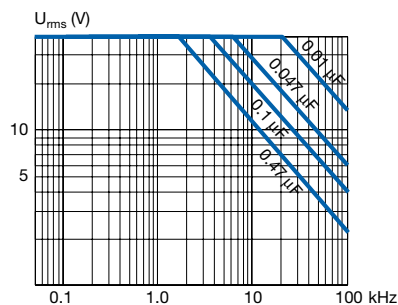


Resonance frequencies  
MMK7.5 ... 37.5

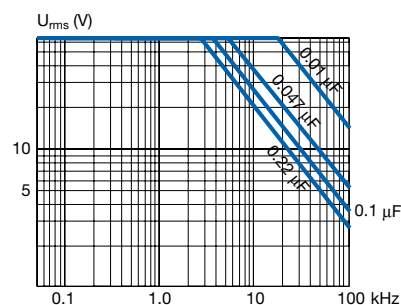
# RATED AC VOLTAGE VS. FREQUENCY



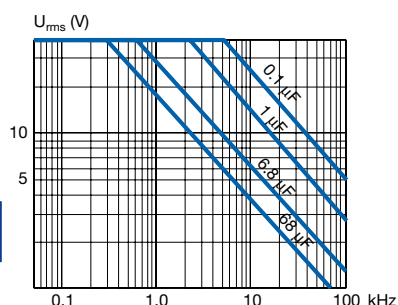
**MMK5 50/30**



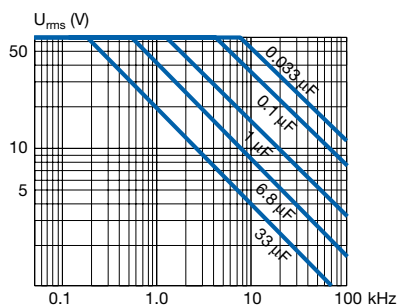
**MMK5 63/40**



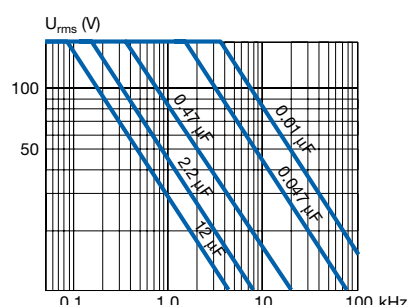
**MMK5 100/63**



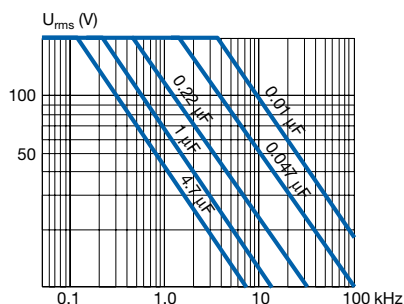
**MMK7.5 ... 37.5 63/40**



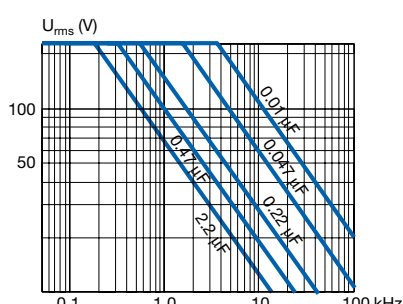
**MMK7.5 ... 37.5 100/63**



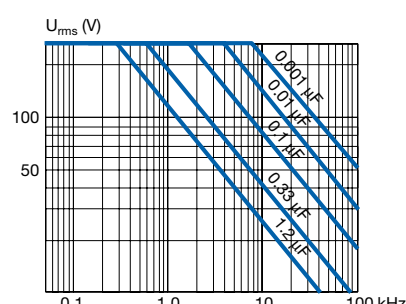
**MMK7.5 ... 37.5 250/160**



**MMK7.5 ... 37.5 400/200**



**MMK7.5 ... 37.5 630/220**



**MMK7.5 ... 37.5 1000/250**

## ENVIRONMENTAL TEST DATA

**Damp heat test** Test conditions:  
Test criteria:

$T = +40^{\circ}\text{C}$ ,  $\text{RH} = 93\%$ ,  $t = 56$  days.  
 $\Delta C/C \leq \pm 5\%$ ,  
 $\Delta \tan \delta \leq 0.005$  (1kHz),  
IR after test  $0.5 \times \text{IR min.}$

**Endurance test** Test conditions:  
Test criteria:

$T = +100^{\circ}\text{C}$ ,  $U = 1.25 \times (0.8 \times U_R)$ ,  
 $t = 2000$  h.  
 $\Delta C/C \leq \pm 5\%$ ,  
 $\Delta \tan \delta \leq 0.005$  (1kHz)  
 $\Delta \tan \delta \leq 0.010$  (100kHz)  
IR after test  $0.5 \times \text{IR min.}$

## MARKING

- Capacitance
- Tolerance code
- Rated voltage
- Capacitor family code MMK
- Manufacturing date code

## ORDERING INFORMATION

See article table and pages 18 to 23 for options and article code construction.  
The standard quantity/reel is for 360 mm reel. If 500 mm reel is required, it must be specified when ordering and the quantity is 2 x the given quantity.

## ARTICLE TABLE

| Capaci-<br>tance<br>μF | Max dimensions in mm |      |      |     | Quantity per package |      |      |      | Max<br>dU/dt<br>V/μs | Article code            |
|------------------------|----------------------|------|------|-----|----------------------|------|------|------|----------------------|-------------------------|
|                        | B                    | H    | L    | p   | Bulk                 | Tray | Reel | Ammo |                      |                         |
| 50 VDC/30 VAC          |                      |      |      |     |                      |      |      |      |                      |                         |
| LEAD SPACING 5 MM      |                      |      |      |     |                      |      |      |      |                      |                         |
| 0.0010                 | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 12                   | MMK5 102K50J01L4 BULK   |
| 0.0012                 | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 12                   | MMK5 122K50J01L4 BULK   |
| 0.0015                 | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 12                   | MMK5 152K50J01L4 BULK   |
| 0.0018                 | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 12                   | MMK5 182K50J01L4 BULK   |
| 0.0022                 | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 12                   | MMK5 222K50J01L4 BULK   |
| 0.0027                 | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 12                   | MMK5 272K50J01L4 BULK   |
| 0.0033                 | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 12                   | MMK5 332K50J01L4 BULK   |
| 0.0039                 | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 12                   | MMK5 392K50J01L4 BULK   |
| 0.0047                 | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 12                   | MMK5 472K50J01L4 BULK   |
| 0.0056                 | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 12                   | MMK5 562K50J01L4 BULK   |
| 0.0068                 | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 12                   | MMK5 682K50J01L4 BULK   |
| 0.0082                 | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 12                   | MMK5 822K50J01L4 BULK   |
| 0.010                  | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 12                   | MMK5 103K50J01L4 BULK   |
| 0.012                  | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 12                   | MMK5 123K50J01L4 BULK   |
| 0.015                  | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 12                   | MMK5 153K50J01L4 BULK   |
| 0.018                  | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 12                   | MMK5 183K50J01L4 BULK   |
| 0.022                  | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 12                   | MMK5 223K50J01L4 BULK   |
| 0.027                  | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 12                   | MMK5 273K50J01L4 BULK   |
| 0.033                  | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 12                   | MMK5 333K50J01L4 BULK   |
| 0.039                  | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 12                   | MMK5 393K50J01L4 BULK   |
| 0.047                  | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 12                   | MMK5 473K50J01L4 BULK   |
| 0.056                  | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 12                   | MMK5 563K50J01L4 BULK   |
| 0.068                  | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 12                   | MMK5 683K50J01L4 BULK   |
| 0.082                  | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 12                   | MMK5 823K50J01L4 BULK   |
| 0.10                   | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 12                   | MMK5 104K50J01L4 BULK   |
| 0.12                   | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 12                   | MMK5 124K50J01L4 BULK   |
| 0.15                   | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 12                   | MMK5 154K50J01L4 BULK   |
| 0.18                   | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 12                   | MMK5 184K50J01L4 BULK   |
| 0.22                   | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 12                   | MMK5 224K50J01L4 BULK   |
| 0.27                   | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 12                   | MMK5 274K50J01L4 BULK   |
| 0.33                   | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 12                   | MMK5 334K50J01L4 BULK   |
| 0.39                   | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 12                   | MMK5 394K50J01L4 BULK   |
| 0.47                   | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 12                   | MMK5 474K50J01L4 BULK   |
| 0.56                   | 3.5                  | 8.0  | 7.2  | 5.0 | 2000                 |      | 2000 | 2000 | 12                   | MMK5 564K50J02L4 BULK   |
| 0.68                   | 3.5                  | 8.0  | 7.2  | 5.0 | 2000                 |      | 2000 | 2000 | 12                   | MMK5 684K50J02L4 BULK   |
| 0.82                   | 3.5                  | 8.0  | 7.2  | 5.0 | 2000                 |      | 2000 | 2000 | 12                   | MMK5 824K50J02L4 BULK   |
| 1.0                    | 3.5                  | 8.0  | 7.2  | 5.0 | 2000                 |      | 2000 | 2000 | 12                   | MMK5 105K50J02L4 BULK   |
| 1.2                    | 4.5                  | 9.0  | 7.2  | 5.0 | 1000                 |      | 1500 | 1700 | 12                   | MMK5 125K50J03L4 BULK   |
| 1.5                    | 4.5                  | 9.0  | 7.2  | 5.0 | 1000                 |      | 1500 | 1700 | 12                   | MMK5 155K50J03L4 BULK   |
| 1.8                    | 5.0                  | 10.0 | 7.2  | 5.0 | 1000                 |      | 1300 | 1500 | 12                   | MMK5 185K50J04L4 BULK   |
| 2.2                    | 5.0                  | 10.0 | 7.2  | 5.0 | 1000                 |      | 1300 | 1500 | 12                   | MMK5 225K50J04L4 BULK   |
| 2.7                    | 6.0                  | 11.0 | 7.2  | 5.0 | 1000                 |      | 1000 | 1200 | 12                   | MMK5 275K50J05L4 BULK   |
| 3.3                    | 6.0                  | 11.0 | 7.2  | 5.0 | 1000                 |      | 1000 | 1200 | 12                   | MMK5 335K50J05L4 BULK   |
| 3.9                    | 7.2                  | 13.0 | 7.2  | 5.0 | 1000                 |      | 800  |      | 12                   | MMK5 395K50J06L4 BULK   |
| 4.7                    | 7.2                  | 13.0 | 7.2  | 5.0 | 1000                 |      | 800  |      | 12                   | MMK5 475K50J06L4 BULK   |
| 5.6                    | 7.2                  | 13.0 | 7.2  | 5.0 | 1000                 |      | 800  |      | 12                   | MMK5 565K50J06L4 BULK   |
| 6.0                    | 7.2                  | 13.0 | 7.2  | 5.0 | 1000                 |      | 800  |      | 12                   | MMK5 605K50J06L4 BULK   |
| LEAD SPACING 7.5 MM    |                      |      |      |     |                      |      |      |      |                      |                         |
| 0.0010                 | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 5                    | MMK7,5 102K50K00L4 BULK |
| 0.0012                 | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 5                    | MMK7,5 122K50K00L4 BULK |
| 0.0015                 | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 5                    | MMK7,5 152K50K00L4 BULK |
| 0.0018                 | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 5                    | MMK7,5 182K50K00L4 BULK |
| 0.0022                 | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 5                    | MMK7,5 222K50K00L4 BULK |
| 0.0027                 | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 5                    | MMK7,5 272K50K00L4 BULK |
| 0.0033                 | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 5                    | MMK7,5 332K50K00L4 BULK |
| 0.0039                 | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 5                    | MMK7,5 392K50K00L4 BULK |
| 0.0047                 | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 5                    | MMK7,5 472K50K00L4 BULK |
| 0.0056                 | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 5                    | MMK7,5 562K50K00L4 BULK |

## ARTICLE TABLE

| Capacitance<br>μF   | Max dimensions in mm |      |      |      | Quantity per package |      |      |      | Max<br>dU/dt<br>V/μs | Article code            |
|---------------------|----------------------|------|------|------|----------------------|------|------|------|----------------------|-------------------------|
|                     | B                    | H    | L    | p    | Bulk                 | Tray | Reel | Ammo |                      |                         |
| 50 VDC/30 VAC       |                      |      |      |      |                      |      |      |      |                      |                         |
| LEAD SPACING 7.5 MM |                      |      |      |      |                      |      |      |      |                      |                         |
| 0.0068              | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 5                    | MMK7,5 682K50K00L4 BULK |
| 0.0082              | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 5                    | MMK7,5 822K50K00L4 BULK |
| 0.010               | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 5                    | MMK7,5 103K50K00L4 BULK |
| 0.012               | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 5                    | MMK7,5 123K50K00L4 BULK |
| 0.015               | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 5                    | MMK7,5 153K50K00L4 BULK |
| 0.018               | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 5                    | MMK7,5 183K50K00L4 BULK |
| 0.022               | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 5                    | MMK7,5 223K50K00L4 BULK |
| 0.027               | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 5                    | MMK7,5 273K50K00L4 BULK |
| 0.033               | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 5                    | MMK7,5 333K50K00L4 BULK |
| 0.039               | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 5                    | MMK7,5 393K50K00L4 BULK |
| 0.047               | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 5                    | MMK7,5 473K50K00L4 BULK |
| 0.056               | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 5                    | MMK7,5 563K50K00L4 BULK |
| 0.068               | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 5                    | MMK7,5 683K50K00L4 BULK |
| 0.082               | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 5                    | MMK7,5 823K50K00L4 BULK |
| 0.10                | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 5                    | MMK7,5 104K50K00L4 BULK |
| 0.12                | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 5                    | MMK7,5 124K50K00L4 BULK |
| 0.15                | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 5                    | MMK7,5 154K50K00L4 BULK |
| 0.18                | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 5                    | MMK7,5 184K50K00L4 BULK |
| 0.22                | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 5                    | MMK7,5 224K50K00L4 BULK |
| 0.27                | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 5                    | MMK7,5 274K50K00L4 BULK |
| 0.33                | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 5                    | MMK7,5 334K50K00L4 BULK |
| 0.39                | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 5                    | MMK7,5 394K50K01L4 BULK |
| 0.47                | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 5                    | MMK7,5 474K50K01L4 BULK |
| 0.56                | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 5                    | MMK7,5 564K50K01L4 BULK |
| 0.68                | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 5                    | MMK7,5 684K50K01L4 BULK |
| 0.82                | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 5                    | MMK7,5 824K50K01L4 BULK |
| 1.0                 | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 5                    | MMK7,5 105K50K01L4 BULK |
| 1.2                 | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 5                    | MMK7,5 125K50K03L4 BULK |
| 1.5                 | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 5                    | MMK7,5 155K50K03L4 BULK |
| 1.8                 | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 5                    | MMK7,5 185K50K03L4 BULK |
| 2.2                 | 6.0                  | 12.0 | 10.5 | 7.5  | 1000                 |      | 1000 | 1200 | 5                    | MMK7,5 225K50K04L4 BULK |
| 2.7                 | 6.0                  | 12.0 | 10.5 | 7.5  | 1000                 |      | 1000 | 1200 | 5                    | MMK7,5 275K50K04L4 BULK |
| 3.3                 | 6.0                  | 12.0 | 10.5 | 7.5  | 1000                 |      | 1000 | 1200 | 5                    | MMK7,5 335K50K04L4 BULK |
| LEAD SPACING 10 MM  |                      |      |      |      |                      |      |      |      |                      |                         |
| 1.0                 | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 4                    | MMK10 105K50A01L4 BULK  |
| 1.2                 | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 4                    | MMK10 125K50A01L4 BULK  |
| 1.5                 | 4.5                  | 10.5 | 13.0 | 10.0 | 1000                 |      | 800  |      | 4                    | MMK10 155K50A02L4 BULK  |
| 1.8                 | 5.0                  | 11.0 | 13.0 | 10.0 | 800                  |      | 700  |      | 4                    | MMK10 185K50A03L4 BULK  |
| 2.2                 | 5.0                  | 11.0 | 13.0 | 10.0 | 800                  |      | 700  |      | 4                    | MMK10 225K50A03L4 BULK  |
| 2.7                 | 6.0                  | 12.0 | 13.0 | 10.0 | 600                  |      | 500  |      | 4                    | MMK10 275K50A04L4 BULK  |
| LEAD SPACING 15 MM  |                      |      |      |      |                      |      |      |      |                      |                         |
| 2.0                 | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 3                    | MMK15 205K50B04L4 BULK  |
| 2.2                 | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 3                    | MMK15 225K50B04L4 BULK  |
| 2.7                 | 5.5                  | 12.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 3                    | MMK15 275K50B05L4 BULK  |
| 3.3                 | 5.5                  | 12.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 3                    | MMK15 335K50B05L4 BULK  |
| 3.9                 | 6.5                  | 12.5 | 18.0 | 15.0 | 1000                 |      | 500  |      | 3                    | MMK15 395K50B10L4 BULK  |
| 4.7                 | 7.5                  | 14.5 | 18.0 | 15.0 | 800                  |      | 400  |      | 3                    | MMK15 475K50B06L4 BULK  |
| 5.6                 | 7.5                  | 14.5 | 18.0 | 15.0 | 800                  |      | 400  |      | 3                    | MMK15 565K50B06L4 BULK  |
| 6.8                 | 8.0                  | 15.0 | 18.0 | 15.0 | 600                  |      | 400  |      | 3                    | MMK15 685K50B12L4 BULK  |
| 8.2                 | 8.5                  | 16.0 | 18.0 | 15.0 | 600                  |      | 400  |      | 3                    | MMK15 825K50B11L4 BULK  |
| 10.0                | 9.5                  | 17.5 | 18.0 | 15.0 | 500                  |      | 350  |      | 3                    | MMK15 106K50B14L4 BULK  |

## ARTICLE TABLE

| Capacitance<br>μF   | Max dimensions in mm |      |      |     | Quantity per package |      |      |      | Max<br>dU/dt<br>V/μs | Article code            |
|---------------------|----------------------|------|------|-----|----------------------|------|------|------|----------------------|-------------------------|
|                     | B                    | H    | L    | p   | Bulk                 | Tray | Reel | Ammo |                      |                         |
| 63 VDC/40 VAC       |                      |      |      |     |                      |      |      |      |                      |                         |
| LEAD SPACING 5 MM   |                      |      |      |     |                      |      |      |      |                      |                         |
| 0.0010              | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 25                   | MMK5 102K63J01L4 BULK   |
| 0.0012              | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 25                   | MMK5 122K63J01L4 BULK   |
| 0.0015              | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 25                   | MMK5 152K63J01L4 BULK   |
| 0.0018              | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 25                   | MMK5 182K63J01L4 BULK   |
| 0.0022              | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 25                   | MMK5 222K63J01L4 BULK   |
| 0.0027              | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 25                   | MMK5 272K63J01L4 BULK   |
| 0.0033              | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 25                   | MMK5 332K63J01L4 BULK   |
| 0.0039              | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 25                   | MMK5 392K63J01L4 BULK   |
| 0.0047              | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 25                   | MMK5 472K63J01L4 BULK   |
| 0.0056              | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 25                   | MMK5 562K63J01L4 BULK   |
| 0.0068              | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 25                   | MMK5 682K63J01L4 BULK   |
| 0.0082              | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 25                   | MMK5 822K63J01L4 BULK   |
| 0.010               | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 25                   | MMK5 103K63J01L4 BULK   |
| 0.012               | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 25                   | MMK5 123K63J01L4 BULK   |
| 0.015               | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 25                   | MMK5 153K63J01L4 BULK   |
| 0.018               | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 25                   | MMK5 183K63J01L4 BULK   |
| 0.022               | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 25                   | MMK5 223K63J01L4 BULK   |
| 0.027               | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 25                   | MMK5 273K63J01L4 BULK   |
| 0.033               | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 25                   | MMK5 333K63J01L4 BULK   |
| 0.039               | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 25                   | MMK5 393K63J01L4 BULK   |
| 0.047               | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 25                   | MMK5 473K63J01L4 BULK   |
| 0.056               | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 25                   | MMK5 563K63J01L4 BULK   |
| 0.068               | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 25                   | MMK5 683K63J01L4 BULK   |
| 0.082               | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 25                   | MMK5 823K63J01L4 BULK   |
| 0.10                | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 25                   | MMK5 104K63J01L4 BULK   |
| 0.12                | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 25                   | MMK5 124K63J01L4 BULK   |
| 0.15                | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 25                   | MMK5 154K63J01L4 BULK   |
| 0.18                | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 25                   | MMK5 184K63J01L4 BULK   |
| 0.22                | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 25                   | MMK5 224K63J01L4 BULK   |
| 0.27                | 3.5                  | 8.0  | 7.2  | 5.0 | 2000                 |      | 2000 | 2000 | 25                   | MMK5 274K63J02L4 BULK   |
| 0.33                | 3.5                  | 8.0  | 7.2  | 5.0 | 2000                 |      | 2000 | 2000 | 25                   | MMK5 334K63J02L4 BULK   |
| 0.39                | 3.5                  | 8.0  | 7.2  | 5.0 | 2000                 |      | 2000 | 2000 | 25                   | MMK5 394K63J02L4 BULK   |
| 0.47                | 3.5                  | 8.0  | 7.2  | 5.0 | 2000                 |      | 2000 | 2000 | 25                   | MMK5 474K63J02L4 BULK   |
| 0.56                | 4.5                  | 9.0  | 7.2  | 5.0 | 1000                 |      | 1500 | 1700 | 25                   | MMK5 564K63J03L4 BULK   |
| 0.68                | 4.5                  | 9.0  | 7.2  | 5.0 | 1000                 |      | 1500 | 1700 | 25                   | MMK5 684K63J03L4 BULK   |
| 0.82                | 5.0                  | 10.0 | 7.2  | 5.0 | 1000                 |      | 1300 | 1500 | 25                   | MMK5 824K63J04L4 BULK   |
| 1.0                 | 5.0                  | 10.0 | 7.2  | 5.0 | 1000                 |      | 1300 | 1500 | 25                   | MMK5 105K63J04L4 BULK   |
| 1.2                 | 6.0                  | 11.0 | 7.2  | 5.0 | 1000                 |      | 1000 | 1200 | 25                   | MMK5 125K63J05L4 BULK   |
| 1.5                 | 6.0                  | 11.0 | 7.2  | 5.0 | 1000                 |      | 1000 | 1200 | 25                   | MMK5 155K63J05L4 BULK   |
| 1.8                 | 7.2                  | 13.0 | 7.2  | 5.0 | 1000                 |      | 800  |      | 25                   | MMK5 185K63J06L4 BULK   |
| 2.2                 | 7.2                  | 13.0 | 7.2  | 5.0 | 1000                 |      | 800  |      | 25                   | MMK5 225K63J06L4 BULK   |
| LEAD SPACING 7.5 MM |                      |      |      |     |                      |      |      |      |                      |                         |
| 0.0010              | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 10                   | MMK7,5 102K63K00L4 BULK |
| 0.0012              | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 10                   | MMK7,5 122K63K00L4 BULK |
| 0.0015              | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 10                   | MMK7,5 152K63K00L4 BULK |
| 0.0018              | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 10                   | MMK7,5 182K63K00L4 BULK |
| 0.0022              | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 10                   | MMK7,5 222K63K00L4 BULK |
| 0.0027              | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 10                   | MMK7,5 272K63K00L4 BULK |
| 0.0033              | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 10                   | MMK7,5 332K63K00L4 BULK |
| 0.0039              | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 10                   | MMK7,5 392K63K00L4 BULK |
| 0.0047              | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 10                   | MMK7,5 472K63K00L4 BULK |
| 0.0056              | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 10                   | MMK7,5 562K63K00L4 BULK |
| 0.0068              | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 10                   | MMK7,5 682K63K00L4 BULK |
| 0.0082              | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 10                   | MMK7,5 822K63K00L4 BULK |
| 0.010               | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 10                   | MMK7,5 103K63K00L4 BULK |
| 0.012               | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 10                   | MMK7,5 123K63K00L4 BULK |
| 0.015               | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 10                   | MMK7,5 153K63K00L4 BULK |
| 0.018               | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 10                   | MMK7,5 183K63K00L4 BULK |

## ARTICLE TABLE

| Capaci-<br>tance<br>μF | Max dimensions in mm |      |      |     | Quantity per package |      |      |      | Max<br>dU/dt<br>V/μs | Article code       |      |
|------------------------|----------------------|------|------|-----|----------------------|------|------|------|----------------------|--------------------|------|
|                        | B                    | H    | L    | p   | Bulk                 | Tray | Reel | Ammo |                      |                    |      |
| 63 VDC/40 VAC          |                      |      |      |     |                      |      |      |      |                      |                    |      |
| LEAD SPACING 7.5 MM    |                      |      |      |     |                      |      |      |      |                      |                    |      |
| 0.022                  | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 10                   | MMK7,5 223K63K00L4 | BULK |
| 0.027                  | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 10                   | MMK7,5 273K63K00L4 | BULK |
| 0.033                  | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 10                   | MMK7,5 333K63K00L4 | BULK |
| 0.039                  | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 10                   | MMK7,5 393K63K00L4 | BULK |
| 0.047                  | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 10                   | MMK7,5 473K63K00L4 | BULK |
| 0.056                  | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 10                   | MMK7,5 563K63K00L4 | BULK |
| 0.068                  | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 10                   | MMK7,5 683K63K00L4 | BULK |
| 0.082                  | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 10                   | MMK7,5 823K63K00L4 | BULK |
| 0.10                   | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 10                   | MMK7,5 104K63K00L4 | BULK |
| 0.12                   | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 10                   | MMK7,5 124K63K00L4 | BULK |
| 0.15                   | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 10                   | MMK7,5 154K63K00L4 | BULK |
| 0.18                   | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 10                   | MMK7,5 184K63K00L4 | BULK |
| 0.22                   | 4.0                  | 8.0  | 10.0 | 7.5 | 1000                 |      | 1700 | 1900 | 10                   | MMK7,5 224K63K01L4 | BULK |
| 0.27                   | 4.0                  | 8.0  | 10.0 | 7.5 | 1000                 |      | 1700 | 1900 | 10                   | MMK7,5 274K63K01L4 | BULK |
| 0.33                   | 4.0                  | 8.0  | 10.0 | 7.5 | 1000                 |      | 1700 | 1900 | 10                   | MMK7,5 334K63K01L4 | BULK |
| 0.39                   | 4.0                  | 8.0  | 10.0 | 7.5 | 1000                 |      | 1700 | 1900 | 10                   | MMK7,5 394K63K01L4 | BULK |
| 0.47                   | 4.0                  | 8.0  | 10.0 | 7.5 | 1000                 |      | 1700 | 1900 | 10                   | MMK7,5 474K63K01L4 | BULK |
| 0.56                   | 5.0                  | 11.0 | 10.0 | 7.5 | 1000                 |      | 1300 | 1500 | 10                   | MMK7,5 564K63K03L4 | BULK |
| 0.68                   | 5.0                  | 11.0 | 10.0 | 7.5 | 1000                 |      | 1300 | 1500 | 10                   | MMK7,5 684K63K03L4 | BULK |
| 0.82                   | 5.0                  | 11.0 | 10.0 | 7.5 | 1000                 |      | 1300 | 1500 | 10                   | MMK7,5 824K63K03L4 | BULK |
| 1.0                    | 5.0                  | 11.0 | 10.0 | 7.5 | 1000                 |      | 1300 | 1500 | 10                   | MMK7,5 105K63K03L4 | BULK |
| 1.2                    | 6.0                  | 12.0 | 10.5 | 7.5 | 1000                 |      | 1000 | 1200 | 10                   | MMK7,5 125K63K04L4 | BULK |
| 1.5                    | 6.0                  | 12.0 | 10.5 | 7.5 | 1000                 |      | 1000 | 1200 | 10                   | MMK7,5 155K63K04L4 | BULK |

## LEAD SPACING 10 MM

|        |     |     |      |      |      |  |     |  |   |                        |
|--------|-----|-----|------|------|------|--|-----|--|---|------------------------|
| 0.0010 | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 102K63A01L4 BULK |
| 0.0012 | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 122K63A01L4 BULK |
| 0.0015 | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 152K63A01L4 BULK |
| 0.0018 | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 182K63A01L4 BULK |
| 0.0022 | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 222K63A01L4 BULK |
| 0.0027 | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 272K63A01L4 BULK |
| 0.0033 | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 332K63A01L4 BULK |
| 0.0039 | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 392K63A01L4 BULK |
| 0.0047 | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 472K63A01L4 BULK |
| 0.0056 | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 562K63A01L4 BULK |
| 0.0068 | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 682K63A01L4 BULK |
| 0.0078 | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 782K63A01L4 BULK |
| 0.0082 | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 822K63A01L4 BULK |
| 0.010  | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 103K63A01L4 BULK |
| 0.012  | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 123K63A01L4 BULK |
| 0.015  | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 153K63A01L4 BULK |
| 0.018  | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 183K63A01L4 BULK |
| 0.022  | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 223K63A01L4 BULK |
| 0.027  | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 273K63A01L4 BULK |
| 0.033  | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 333K63A01L4 BULK |
| 0.039  | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 393K63A01L4 BULK |
| 0.047  | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 473K63A01L4 BULK |
| 0.056  | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 563K63A01L4 BULK |
| 0.068  | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 683K63A01L4 BULK |
| 0.082  | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 823K63A01L4 BULK |
| 0.10   | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 104K63A01L4 BULK |
| 0.12   | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 124K63A01L4 BULK |
| 0.15   | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 154K63A01L4 BULK |
| 0.18   | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 184K63A01L4 BULK |
| 0.22   | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 224K63A01L4 BULK |
| 0.27   | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 274K63A01L4 BULK |
| 0.33   | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 334K63A01L4 BULK |
| 0.39   | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 394K63A01L4 BULK |
| 0.47   | 4.0 | 9.0 | 13.0 | 10.0 | 1000 |  | 900 |  | 8 | MMK10 474K63A01L4 BULK |

## ARTICLE TABLE

| Capaci-<br>tance<br>μF | Max dimensions in mm |      |      |      | Quantity per package |      |      |      | Max<br>dU/dt<br>V/μs | Article code             |
|------------------------|----------------------|------|------|------|----------------------|------|------|------|----------------------|--------------------------|
|                        | B                    | H    | L    | p    | Bulk                 | Tray | Reel | Ammo |                      |                          |
| 63 VDC/40 VAC          |                      |      |      |      |                      |      |      |      |                      |                          |
| LEAD SPACING 10 MM     |                      |      |      |      |                      |      |      |      |                      |                          |
| 0.56                   | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 8                    | MMK10 564K63A01L4 BULK   |
| 0.68                   | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 8                    | MMK10 684K63A01L4 BULK   |
| 0.82                   | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 8                    | MMK10 824K63A01L4 BULK   |
| 1.0                    | 4.5                  | 10.5 | 13.0 | 10.0 | 1000                 |      | 800  |      | 8                    | MMK10 105K63A02L4 BULK   |
| 1.2                    | 4.5                  | 10.5 | 13.0 | 10.0 | 1000                 |      | 800  |      | 8                    | MMK10 125K63A02L4 BULK   |
| 1.5                    | 5.0                  | 11.0 | 13.0 | 10.0 | 800                  |      | 700  |      | 8                    | MMK10 155K63A03L4 BULK   |
| 1.8                    | 6.0                  | 12.0 | 13.0 | 10.0 | 600                  |      | 500  |      | 8                    | MMK10 185K63A04L4 BULK   |
| 2.2                    | 6.0                  | 12.0 | 13.0 | 10.0 | 600                  |      | 500  |      | 8                    | MMK10 225K63A04L4 BULK   |
| LEAD SPACING 15 MM     |                      |      |      |      |                      |      |      |      |                      |                          |
| 0.68                   | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 5                    | MMK15 684K63B04L4 BULK   |
| 0.82                   | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 5                    | MMK15 824K63B04L4 BULK   |
| 1.0                    | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 5                    | MMK15 105K63B04L4 BULK   |
| 1.2                    | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 5                    | MMK15 125K63B04L4 BULK   |
| 1.5                    | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 5                    | MMK15 155K63B04L4 BULK   |
| 1.8                    | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 5                    | MMK15 185K63B04L4 BULK   |
| 2.0                    | 5.5                  | 12.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 5                    | MMK15 205K63B05L4 BULK   |
| 2.2                    | 5.5                  | 12.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 5                    | MMK15 225K63B05L4 BULK   |
| 2.7                    | 6.5                  | 12.5 | 18.0 | 15.0 | 1000                 |      | 500  |      | 5                    | MMK15 275K63B10L4 BULK   |
| 3.3                    | 6.5                  | 12.5 | 18.0 | 15.0 | 1000                 |      | 500  |      | 5                    | MMK15 335K63B10L4 BULK   |
| 3.9                    | 7.5                  | 14.5 | 18.0 | 15.0 | 800                  |      | 400  |      | 5                    | MMK15 395K63B06L4 BULK   |
| 4.7                    | 7.5                  | 14.5 | 18.0 | 15.0 | 800                  |      | 400  |      | 5                    | MMK15 475K63B06L4 BULK   |
| 5.6                    | 8.5                  | 16.0 | 18.0 | 15.0 | 600                  |      | 400  |      | 5                    | MMK15 565K63B11L4 BULK   |
| 6.8                    | 9.5                  | 17.5 | 18.0 | 15.0 | 500                  |      | 350  |      | 5                    | MMK15 685K63B14L4 BULK   |
| LEAD SPACING 22.5 MM   |                      |      |      |      |                      |      |      |      |                      |                          |
| 3.3                    | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 3                    | MMK22,5 335K63D13L4 TRAY |
| 3.9                    | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 3                    | MMK22,5 395K63D13L4 TRAY |
| 4.7                    | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 3                    | MMK22,5 475K63D13L4 TRAY |
| 5.6                    | 7.0                  | 16.5 | 26.0 | 22.5 |                      | 216  |      |      | 3                    | MMK22,5 565K63D17L4 TRAY |
| 6.8                    | 7.0                  | 16.5 | 26.0 | 22.5 |                      | 216  |      |      | 3                    | MMK22,5 685K63D17L4 TRAY |
| 8.2                    | 8.0                  | 16.0 | 26.0 | 22.5 |                      | 186  |      |      | 3                    | MMK22,5 825K63D14L4 TRAY |
| 10                     | 9.0                  | 18.5 | 26.0 | 22.5 |                      | 168  |      |      | 3                    | MMK22,5 106K63D15L4 TRAY |
| 12                     | 10.5                 | 19.0 | 26.0 | 22.5 |                      | 264  |      |      | 3                    | MMK22,5 126K63D18L4 TRAY |
| 15                     | 11.0                 | 21.5 | 26.0 | 22.5 |                      | 253  |      |      | 3                    | MMK22,5 156K63D16L4 TRAY |
| 18                     | 13.5                 | 23.0 | 26.0 | 22.5 |                      | 209  |      |      | 3                    | MMK22,5 186K63D20L4 TRAY |
| 22                     | 15.5                 | 24.5 | 26.0 | 22.5 |                      | 176  |      |      | 3                    | MMK22,5 226K63D19L4 TRAY |
| LEAD SPACING 27.5 MM   |                      |      |      |      |                      |      |      |      |                      |                          |
| 8.2                    | 10.5                 | 20.5 | 31.5 | 27.5 |                      | 216  |      |      | 2                    | MMK27,5 825K63F11L4 TRAY |
| 10                     | 10.5                 | 20.5 | 31.5 | 27.5 |                      | 216  |      |      | 2                    | MMK27,5 106K63F11L4 TRAY |
| 12                     | 10.5                 | 20.5 | 31.5 | 27.5 |                      | 216  |      |      | 2                    | MMK27,5 126K63F11L4 TRAY |
| 15                     | 11.5                 | 22.5 | 31.5 | 27.5 |                      | 198  |      |      | 2                    | MMK27,5 156K63F12L4 TRAY |
| 18                     | 11.5                 | 22.5 | 31.5 | 27.5 |                      | 198  |      |      | 2                    | MMK27,5 186K63F12L4 TRAY |
| 22                     | 14.5                 | 24.5 | 31.5 | 27.5 |                      | 153  |      |      | 2                    | MMK27,5 226K63F13L4 TRAY |
| 27                     | 17.5                 | 28.0 | 31.5 | 27.5 |                      | 126  |      |      | 2                    | MMK27,5 276K63F14L4 TRAY |
| 33                     | 17.5                 | 28.0 | 31.5 | 27.5 |                      | 126  |      |      | 2                    | MMK27,5 336K63F14L4 TRAY |
| LEAD SPACING 37.5 MM   |                      |      |      |      |                      |      |      |      |                      |                          |
| 27                     | 13.0                 | 24.0 | 41.0 | 37.5 |                      | 140  |      |      | 1                    | MMK37,5 276K63R05L4 TRAY |
| 33                     | 15.0                 | 26.0 | 41.0 | 37.5 |                      | 119  |      |      | 1                    | MMK37,5 336K63R04L4 TRAY |
| 39                     | 15.0                 | 26.0 | 41.0 | 37.5 |                      | 119  |      |      | 1                    | MMK37,5 396K63R04L4 TRAY |
| 47                     | 16.5                 | 32.0 | 41.0 | 37.5 |                      | 105  |      |      | 1                    | MMK37,5 476K63R02L4 TRAY |
| 56                     | 19.0                 | 36.0 | 41.0 | 37.5 |                      | 91   |      |      | 1                    | MMK37,5 566K63R03L4 TRAY |
| 68                     | 19.0                 | 36.0 | 41.0 | 37.5 |                      | 91   |      |      | 1                    | MMK37,5 686K63R03L4 TRAY |
| 82                     | 21.0                 | 38.0 | 41.0 | 37.5 |                      | 84   |      |      | 1                    | MMK37,5 826K63R06L4 TRAY |

## ARTICLE TABLE

| Capaci-<br>tance<br>μF | Max dimensions in mm |      |      |     | Quantity per package |      |      |      | Max<br>dU/dt<br>V/μs | Article code             |
|------------------------|----------------------|------|------|-----|----------------------|------|------|------|----------------------|--------------------------|
|                        | B                    | H    | L    | p   | Bulk                 | Tray | Reel | Ammo |                      |                          |
| 100 VDC/63 VAC         |                      |      |      |     |                      |      |      |      |                      |                          |
| LEAD SPACING 5 MM      |                      |      |      |     |                      |      |      |      |                      |                          |
| 0.0010                 | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 30                   | MMK5 102K100J01L4 BULK   |
| 0.0012                 | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 30                   | MMK5 122K100J01L4 BULK   |
| 0.0015                 | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 30                   | MMK5 152K100J01L4 BULK   |
| 0.0018                 | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 30                   | MMK5 182K100J01L4 BULK   |
| 0.0022                 | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 30                   | MMK5 222K100J01L4 BULK   |
| 0.0027                 | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 30                   | MMK5 272K100J01L4 BULK   |
| 0.0033                 | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 30                   | MMK5 332K100J01L4 BULK   |
| 0.0039                 | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 30                   | MMK5 392K100J01L4 BULK   |
| 0.0047                 | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 30                   | MMK5 472K100J01L4 BULK   |
| 0.0056                 | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 30                   | MMK5 562K100J01L4 BULK   |
| 0.0068                 | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 30                   | MMK5 682K100J01L4 BULK   |
| 0.0082                 | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 30                   | MMK5 822K100J01L4 BULK   |
| 0.010                  | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 30                   | MMK5 103K100J01L4 BULK   |
| 0.012                  | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 30                   | MMK5 123K100J01L4 BULK   |
| 0.015                  | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 30                   | MMK5 153K100J01L4 BULK   |
| 0.018                  | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 30                   | MMK5 183K100J01L4 BULK   |
| 0.022                  | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 30                   | MMK5 223K100J01L4 BULK   |
| 0.027                  | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 30                   | MMK5 273K100J01L4 BULK   |
| 0.033                  | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 30                   | MMK5 333K100J01L4 BULK   |
| 0.039                  | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 30                   | MMK5 393K100J01L4 BULK   |
| 0.047                  | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 30                   | MMK5 473K100J01L4 BULK   |
| 0.056                  | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 30                   | MMK5 563K100J01L4 BULK   |
| 0.068                  | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 30                   | MMK5 683K100J01L4 BULK   |
| 0.082                  | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 30                   | MMK5 823K100J01L4 BULK   |
| 0.10                   | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 30                   | MMK5 104K100J01L4 BULK   |
| 0.12                   | 3.5                  | 8.0  | 7.2  | 5.0 | 2000                 |      | 2000 | 2000 | 30                   | MMK5 124K100J02L4 BULK   |
| 0.15                   | 3.5                  | 8.0  | 7.2  | 5.0 | 2000                 |      | 2000 | 2000 | 30                   | MMK5 154K100J02L4 BULK   |
| 0.18                   | 3.5                  | 8.0  | 7.2  | 5.0 | 2000                 |      | 2000 | 2000 | 30                   | MMK5 184K100J02L4 BULK   |
| 0.22                   | 3.5                  | 8.0  | 7.2  | 5.0 | 2000                 |      | 2000 | 2000 | 30                   | MMK5 224K100J02L4 BULK   |
| 0.27                   | 4.5                  | 9.0  | 7.2  | 5.0 | 1000                 |      | 1500 | 1700 | 30                   | MMK5 274K100J03L4 BULK   |
| 0.33                   | 4.5                  | 9.0  | 7.2  | 5.0 | 1000                 |      | 1500 | 1700 | 30                   | MMK5 334K100J03L4 BULK   |
| 0.39                   | 5.0                  | 10.0 | 7.2  | 5.0 | 1000                 |      | 1300 | 1500 | 30                   | MMK5 394K100J04L4 BULK   |
| 0.47                   | 5.0                  | 10.0 | 7.2  | 5.0 | 1000                 |      | 1300 | 1500 | 30                   | MMK5 474K100J04L4 BULK   |
| 0.56                   | 6.0                  | 11.0 | 7.2  | 5.0 | 1000                 |      | 1000 | 1200 | 30                   | MMK5 564K100J05L4 BULK   |
| 0.68                   | 6.0                  | 11.0 | 7.2  | 5.0 | 1000                 |      | 1000 | 1200 | 30                   | MMK5 684K100J05L4 BULK   |
| 0.82                   | 7.2                  | 13.0 | 7.2  | 5.0 | 1000                 |      | 800  |      | 30                   | MMK5 824K100J06L4 BULK   |
| 1.0                    | 7.2                  | 13.0 | 7.2  | 5.0 | 1000                 |      | 800  |      | 30                   | MMK5 105K100J06L4 BULK   |
| LEAD SPACING 7.5 MM    |                      |      |      |     |                      |      |      |      |                      |                          |
| 0.0010                 | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 20                   | MMK7,5 102K100K00L4 BULK |
| 0.0012                 | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 20                   | MMK7,5 122K100K00L4 BULK |
| 0.0015                 | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 20                   | MMK7,5 152K100K00L4 BULK |
| 0.0018                 | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 20                   | MMK7,5 182K100K00L4 BULK |
| 0.0022                 | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 20                   | MMK7,5 222K100K00L4 BULK |
| 0.0027                 | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 20                   | MMK7,5 272K100K00L4 BULK |
| 0.0033                 | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 20                   | MMK7,5 332K100K00L4 BULK |
| 0.0039                 | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 20                   | MMK7,5 392K100K00L4 BULK |
| 0.0047                 | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 20                   | MMK7,5 472K100K00L4 BULK |
| 0.0056                 | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 20                   | MMK7,5 562K100K00L4 BULK |
| 0.0068                 | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 20                   | MMK7,5 682K100K00L4 BULK |
| 0.0082                 | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 20                   | MMK7,5 822K100K00L4 BULK |
| 0.010                  | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 20                   | MMK7,5 103K100K00L4 BULK |
| 0.012                  | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 20                   | MMK7,5 123K100K00L4 BULK |
| 0.015                  | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 20                   | MMK7,5 153K100K00L4 BULK |
| 0.018                  | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 20                   | MMK7,5 183K100K00L4 BULK |
| 0.022                  | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 20                   | MMK7,5 223K100K00L4 BULK |
| 0.027                  | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 20                   | MMK7,5 273K100K00L4 BULK |
| 0.033                  | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 20                   | MMK7,5 333K100K00L4 BULK |

## ARTICLE TABLE

| Capacitance<br>μF   | Max dimensions in mm |      |      |      | Quantity per package |      |      |      | Max<br>dU/dt<br>V/μs | Article code             |
|---------------------|----------------------|------|------|------|----------------------|------|------|------|----------------------|--------------------------|
|                     | B                    | H    | L    | p    | Bulk                 | Tray | Reel | Ammo |                      |                          |
| 100 VDC/63 VAC      |                      |      |      |      |                      |      |      |      |                      |                          |
| LEAD SPACING 7.5 MM |                      |      |      |      |                      |      |      |      |                      |                          |
| 0.039               | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 20                   | MMK7,5 393K100K00L4 BULK |
| 0.047               | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 20                   | MMK7,5 473K100K00L4 BULK |
| 0.056               | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 20                   | MMK7,5 563K100K00L4 BULK |
| 0.068               | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 20                   | MMK7,5 683K100K00L4 BULK |
| 0.082               | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 20                   | MMK7,5 823K100K00L4 BULK |
| 0.10                | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 20                   | MMK7,5 104K100K00L4 BULK |
| 0.12                | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 20                   | MMK7,5 124K100K01L4 BULK |
| 0.15                | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 20                   | MMK7,5 154K100K01L4 BULK |
| 0.18                | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 20                   | MMK7,5 184K100K01L4 BULK |
| 0.22                | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 20                   | MMK7,5 224K100K01L4 BULK |
| 0.27                | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 20                   | MMK7,5 274K100K01L4 BULK |
| 0.33                | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 20                   | MMK7,5 334K100K03L4 BULK |
| 0.39                | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 20                   | MMK7,5 394K100K03L4 BULK |
| 0.47                | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 20                   | MMK7,5 474K100K03L4 BULK |
| 0.56                | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 20                   | MMK7,5 564K100K03L4 BULK |
| 0.68                | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 20                   | MMK7,5 684K100K03L4 BULK |
| 0.82                | 6.0                  | 12.0 | 10.5 | 7.5  | 1000                 |      | 1000 | 1200 | 20                   | MMK7,5 824K100K04L4 BULK |
| 1.0                 | 6.0                  | 12.0 | 10.5 | 7.5  | 1000                 |      | 1000 | 1200 | 20                   | MMK7,5 105K100K04L4 BULK |
| LEAD SPACING 10 MM  |                      |      |      |      |                      |      |      |      |                      |                          |
| 0.0010              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 102K100A01L4 BULK  |
| 0.0012              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 122K100A01L4 BULK  |
| 0.0015              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 152K100A01L4 BULK  |
| 0.0018              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 182K100A01L4 BULK  |
| 0.0022              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 222K100A01L4 BULK  |
| 0.0027              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 272K100A01L4 BULK  |
| 0.0033              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 332K100A01L4 BULK  |
| 0.0039              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 392K100A01L4 BULK  |
| 0.0047              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 472K100A01L4 BULK  |
| 0.0056              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 562K100A01L4 BULK  |
| 0.0068              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 682K100A01L4 BULK  |
| 0.0078              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 782K100A01L4 BULK  |
| 0.0082              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 822K100A01L4 BULK  |
| 0.010               | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 103K100A01L4 BULK  |
| 0.012               | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 123K100A01L4 BULK  |
| 0.015               | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 153K100A01L4 BULK  |
| 0.018               | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 183K100A01L4 BULK  |
| 0.022               | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 223K100A01L4 BULK  |
| 0.027               | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 273K100A01L4 BULK  |
| 0.033               | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 333K100A01L4 BULK  |
| 0.039               | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 393K100A01L4 BULK  |
| 0.047               | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 473K100A01L4 BULK  |
| 0.056               | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 563K100A01L4 BULK  |
| 0.068               | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 683K100A01L4 BULK  |
| 0.082               | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 823K100A01L4 BULK  |
| 0.10                | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 104K100A01L4 BULK  |
| 0.12                | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 124K100A01L4 BULK  |
| 0.15                | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 154K100A01L4 BULK  |
| 0.18                | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 184K100A01L4 BULK  |
| 0.22                | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 224K100A01L4 BULK  |
| 0.27                | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 274K100A01L4 BULK  |
| 0.33                | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 334K100A01L4 BULK  |
| 0.39                | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 394K100A01L4 BULK  |
| 0.47                | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 12                   | MMK10 474K100A01L4 BULK  |
| 0.56                | 4.5                  | 10.5 | 13.0 | 10.0 | 1000                 |      | 800  |      | 12                   | MMK10 564K100A02L4 BULK  |
| 0.68                | 4.5                  | 10.5 | 13.0 | 10.0 | 1000                 |      | 800  |      | 12                   | MMK10 684K100A02L4 BULK  |
| 0.82                | 4.5                  | 10.5 | 13.0 | 10.0 | 1000                 |      | 800  |      | 12                   | MMK10 824K100A02L4 BULK  |
| 1.0                 | 6.0                  | 12.0 | 13.0 | 10.0 | 600                  |      | 500  |      | 12                   | MMK10 105K100A04L4 BULK  |

## ARTICLE TABLE

| Capaci-<br>tance<br>μF | Max dimensions in mm |      |      |      | Quantity per package |      |      |      | Max<br>dU/dt<br>V/μs | Article code              |
|------------------------|----------------------|------|------|------|----------------------|------|------|------|----------------------|---------------------------|
|                        | B                    | H    | L    | p    | Bulk                 | Tray | Reel | Ammo |                      |                           |
| 100 VDC/63 VAC         |                      |      |      |      |                      |      |      |      |                      |                           |
| LEAD SPACING 15 MM     |                      |      |      |      |                      |      |      |      |                      |                           |
| 0.27                   | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 8                    | MMK15 274K100B04L4 BULK   |
| 0.33                   | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 8                    | MMK15 334K100B04L4 BULK   |
| 0.39                   | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 8                    | MMK15 394K100B04L4 BULK   |
| 0.47                   | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 8                    | MMK15 474K100B04L4 BULK   |
| 0.56                   | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 8                    | MMK15 564K100B04L4 BULK   |
| 0.68                   | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 8                    | MMK15 684K100B04L4 BULK   |
| 0.82                   | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 8                    | MMK15 824K100B04L4 BULK   |
| 1.0                    | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 8                    | MMK15 105K100B04L4 BULK   |
| 1.2                    | 5.5                  | 12.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 8                    | MMK15 125K100B05L4 BULK   |
| 1.5                    | 6.5                  | 12.5 | 18.0 | 15.0 | 1000                 |      | 500  |      | 8                    | MMK15 155K100B10L4 BULK   |
| 1.8                    | 7.5                  | 14.5 | 18.0 | 15.0 | 800                  |      | 400  |      | 8                    | MMK15 185K100B06L4 BULK   |
| 2.2                    | 7.5                  | 14.5 | 18.0 | 15.0 | 800                  |      | 400  |      | 8                    | MMK15 225K100B06L4 BULK   |
| 2.7                    | 8.0                  | 15.0 | 18.0 | 15.0 | 600                  |      | 400  |      | 8                    | MMK15 275K100B12L4 BULK   |
| 3.3                    | 8.5                  | 16.0 | 18.0 | 15.0 | 600                  |      | 400  |      | 8                    | MMK15 335K100B11L4 BULK   |
| 3.9                    | 9.5                  | 17.5 | 18.0 | 15.0 | 500                  |      | 350  |      | 8                    | MMK15 395K100B14L4 BULK   |
| LEAD SPACING 22.5 MM   |                      |      |      |      |                      |      |      |      |                      |                           |
| 1.2                    | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 5                    | MMK22,5 125K100D13L4 TRAY |
| 1.5                    | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 5                    | MMK22,5 155K100D13L4 TRAY |
| 1.8                    | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 5                    | MMK22,5 185K100D13L4 TRAY |
| 2.0                    | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 5                    | MMK22,5 205K100D13L4 TRAY |
| 2.2                    | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 5                    | MMK22,5 225K100D13L4 TRAY |
| 2.7                    | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 5                    | MMK22,5 275K100D13L4 TRAY |
| 3.3                    | 7.0                  | 16.5 | 26.0 | 22.5 |                      | 216  |      |      | 5                    | MMK22,5 335K100D17L4 TRAY |
| 3.9                    | 8.0                  | 16.0 | 26.0 | 22.5 |                      | 186  |      |      | 5                    | MMK22,5 395K100D14L4 TRAY |
| 4.7                    | 9.0                  | 18.5 | 26.0 | 22.5 |                      | 168  |      |      | 5                    | MMK22,5 475K100D15L4 TRAY |
| 5.6                    | 9.0                  | 18.5 | 26.0 | 22.5 |                      | 168  |      |      | 5                    | MMK22,5 565K100D15L4 TRAY |
| 6.8                    | 10.5                 | 19.0 | 26.0 | 22.5 |                      | 264  |      |      | 5                    | MMK22,5 685K100D18L4 TRAY |
| 8.2                    | 11.0                 | 21.5 | 26.0 | 22.5 |                      | 253  |      |      | 5                    | MMK22,5 825K100D16L4 TRAY |
| 10.0                   | 13.5                 | 23.0 | 26.0 | 22.5 |                      | 209  |      |      | 5                    | MMK22,5 106K100D20L4 TRAY |
| 12.0                   | 15.5                 | 24.5 | 26.0 | 22.5 |                      | 176  |      |      | 5                    | MMK22,5 126K100D19L4 TRAY |
| 15.0                   | 15.5                 | 24.5 | 26.0 | 22.5 |                      | 176  |      |      | 5                    | MMK22,5 156K100D19L4 TRAY |
| LEAD SPACING 27.5 MM   |                      |      |      |      |                      |      |      |      |                      |                           |
| 3.9                    | 10.5                 | 20.5 | 31.5 | 27.5 |                      | 216  |      |      | 3                    | MMK27,5 395K100F11L4 TRAY |
| 4.7                    | 10.5                 | 20.5 | 31.5 | 27.5 |                      | 216  |      |      | 3                    | MMK27,5 475K100F11L4 TRAY |
| 5.6                    | 10.5                 | 20.5 | 31.5 | 27.5 |                      | 216  |      |      | 3                    | MMK27,5 565K100F11L4 TRAY |
| 6.8                    | 10.5                 | 20.5 | 31.5 | 27.5 |                      | 216  |      |      | 3                    | MMK27,5 685K100F11L4 TRAY |
| 8.2                    | 10.5                 | 20.5 | 31.5 | 27.5 |                      | 216  |      |      | 3                    | MMK27,5 825K100F11L4 TRAY |
| 10                     | 11.5                 | 22.5 | 31.5 | 27.5 |                      | 198  |      |      | 3                    | MMK27,5 106K100F12L4 TRAY |
| 12                     | 11.5                 | 22.5 | 31.5 | 27.5 |                      | 198  |      |      | 3                    | MMK27,5 126K100F12L4 TRAY |
| 15                     | 14.5                 | 24.5 | 31.5 | 27.5 |                      | 153  |      |      | 3                    | MMK27,5 156K100F13L4 TRAY |
| 18                     | 17.5                 | 28.0 | 31.5 | 27.5 |                      | 126  |      |      | 3                    | MMK27,5 186K100F14L4 TRAY |
| 22                     | 17.5                 | 28.0 | 31.5 | 27.5 |                      | 126  |      |      | 3                    | MMK27,5 226K100F14L4 TRAY |
| 27                     | 19.0                 | 29.0 | 31.5 | 27.5 |                      | 117  |      |      | 3                    | MMK27,5 276K100F15L4 TRAY |
| 33                     | 21.0                 | 30.0 | 31.5 | 27.5 |                      | 108  |      |      | 3                    | MMK27,5 336K100F16L4 TRAY |
| LEAD SPACING 37.5 MM   |                      |      |      |      |                      |      |      |      |                      |                           |
| 12                     | 13.0                 | 24.0 | 41.0 | 37.5 |                      | 140  |      |      | 2                    | MMK37,5 126K100R05L4 TRAY |
| 15                     | 13.0                 | 24.0 | 41.0 | 37.5 |                      | 140  |      |      | 2                    | MMK37,5 156K100R05L4 TRAY |
| 18                     | 13.0                 | 24.0 | 41.0 | 37.5 |                      | 140  |      |      | 2                    | MMK37,5 186K100R05L4 TRAY |
| 22                     | 15.0                 | 26.0 | 41.0 | 37.5 |                      | 119  |      |      | 2                    | MMK37,5 226K100R04L4 TRAY |
| 27                     | 15.0                 | 26.0 | 41.0 | 37.5 |                      | 119  |      |      | 2                    | MMK37,5 276K100R04L4 TRAY |
| 33                     | 16.5                 | 32.0 | 41.0 | 37.5 |                      | 105  |      |      | 2                    | MMK37,5 336K100R02L4 TRAY |
| 39                     | 19.0                 | 36.0 | 41.0 | 37.5 |                      | 91   |      |      | 2                    | MMK37,5 396K100R03L4 TRAY |
| 47                     | 19.0                 | 36.0 | 41.0 | 37.5 |                      | 91   |      |      | 2                    | MMK37,5 476K100R03L4 TRAY |
| 56                     | 21.0                 | 38.0 | 41.0 | 37.5 |                      | 84   |      |      | 2                    | MMK37,5 566K100R06L4 TRAY |

## ARTICLE TABLE

| Capacitance<br>μF   | Max dimensions in mm |      |      |     | Quantity per package |      |      |      | Max<br>dU/dt<br>V/μs | Article code             |
|---------------------|----------------------|------|------|-----|----------------------|------|------|------|----------------------|--------------------------|
|                     | B                    | H    | L    | p   | Bulk                 | Tray | Reel | Ammo |                      |                          |
| 250 VDC/160 VAC     |                      |      |      |     |                      |      |      |      |                      |                          |
| LEAD SPACING 5 MM   |                      |      |      |     |                      |      |      |      |                      |                          |
| 0.0010              | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 40                   | MMK5 102K250J01L4 BULK   |
| 0.0012              | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 40                   | MMK5 122K250J01L4 BULK   |
| 0.0015              | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 40                   | MMK5 152K250J01L4 BULK   |
| 0.0018              | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 40                   | MMK5 182K250J01L4 BULK   |
| 0.0022              | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 40                   | MMK5 222K250J01L4 BULK   |
| 0.0027              | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 40                   | MMK5 272K250J01L4 BULK   |
| 0.0033              | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 40                   | MMK5 332K250J01L4 BULK   |
| 0.0039              | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 40                   | MMK5 392K250J01L4 BULK   |
| 0.0047              | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 40                   | MMK5 472K250J01L4 BULK   |
| 0.0056              | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 40                   | MMK5 562K250J01L4 BULK   |
| 0.0068              | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 40                   | MMK5 682K250J01L4 BULK   |
| 0.0082              | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 40                   | MMK5 822K250J01L4 BULK   |
| 0.010               | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 40                   | MMK5 103K250J01L4 BULK   |
| 0.012               | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 40                   | MMK5 123K250J01L4 BULK   |
| 0.015               | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 40                   | MMK5 153K250J01L4 BULK   |
| 0.018               | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 40                   | MMK5 183K250J01L4 BULK   |
| 0.022               | 2.5                  | 6.5  | 7.2  | 5.0 | 2000                 |      | 2500 | 3000 | 40                   | MMK5 223K250J01L4 BULK   |
| 0.027               | 3.5                  | 8.0  | 7.2  | 5.0 | 2000                 |      | 2000 | 2000 | 40                   | MMK5 273K250J02L4 BULK   |
| 0.033               | 3.5                  | 8.0  | 7.2  | 5.0 | 2000                 |      | 2000 | 2000 | 40                   | MMK5 333K250J02L4 BULK   |
| 0.039               | 3.5                  | 8.0  | 7.2  | 5.0 | 2000                 |      | 2000 | 2000 | 40                   | MMK5 393K250J02L4 BULK   |
| 0.047               | 3.5                  | 8.0  | 7.2  | 5.0 | 2000                 |      | 2000 | 2000 | 40                   | MMK5 473K250J02L4 BULK   |
| 0.056               | 3.5                  | 8.0  | 7.2  | 5.0 | 2000                 |      | 2000 | 2000 | 40                   | MMK5 563K250J02L4 BULK   |
| 0.068               | 3.5                  | 8.0  | 7.2  | 5.0 | 2000                 |      | 2000 | 2000 | 40                   | MMK5 683K250J02L4 BULK   |
| 0.082               | 4.5                  | 9.0  | 7.2  | 5.0 | 1000                 |      | 1500 | 1700 | 40                   | MMK5 823K250J03L4 BULK   |
| 0.10                | 4.5                  | 9.0  | 7.2  | 5.0 | 1000                 |      | 1500 | 1700 | 40                   | MMK5 104K250J03L4 BULK   |
| 0.12                | 5.0                  | 10.0 | 7.2  | 5.0 | 1000                 |      | 1300 | 1500 | 40                   | MMK5 124K250J04L4 BULK   |
| 0.15                | 5.0                  | 10.0 | 7.2  | 5.0 | 1000                 |      | 1300 | 1500 | 40                   | MMK5 154K250J04L4 BULK   |
| 0.18                | 6.0                  | 11.0 | 7.2  | 5.0 | 1000                 |      | 1000 | 1200 | 40                   | MMK5 184K250J05L4 BULK   |
| 0.22                | 6.0                  | 11.0 | 7.2  | 5.0 | 1000                 |      | 1000 | 1200 | 40                   | MMK5 224K250J05L4 BULK   |
| LEAD SPACING 7.5 MM |                      |      |      |     |                      |      |      |      |                      |                          |
| 0.0010              | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 30                   | MMK7,5 102K250K00L4 BULK |
| 0.0012              | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 30                   | MMK7,5 122K250K00L4 BULK |
| 0.0015              | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 30                   | MMK7,5 152K250K00L4 BULK |
| 0.0018              | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 30                   | MMK7,5 182K250K00L4 BULK |
| 0.0022              | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 30                   | MMK7,5 222K250K00L4 BULK |
| 0.0027              | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 30                   | MMK7,5 272K250K00L4 BULK |
| 0.0033              | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 30                   | MMK7,5 332K250K00L4 BULK |
| 0.0039              | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 30                   | MMK7,5 392K250K00L4 BULK |
| 0.0047              | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 30                   | MMK7,5 472K250K00L4 BULK |
| 0.0056              | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 30                   | MMK7,5 562K250K00L4 BULK |
| 0.0068              | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 30                   | MMK7,5 682K250K00L4 BULK |
| 0.0082              | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 30                   | MMK7,5 822K250K00L4 BULK |
| 0.010               | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 30                   | MMK7,5 103K250K00L4 BULK |
| 0.012               | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 30                   | MMK7,5 123K250K00L4 BULK |
| 0.015               | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 30                   | MMK7,5 153K250K00L4 BULK |
| 0.018               | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 30                   | MMK7,5 183K250K00L4 BULK |
| 0.022               | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 30                   | MMK7,5 223K250K00L4 BULK |
| 0.027               | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 30                   | MMK7,5 273K250K00L4 BULK |
| 0.033               | 2.5                  | 6.0  | 10.0 | 7.5 | 2000                 |      | 2500 | 3000 | 30                   | MMK7,5 333K250K00L4 BULK |
| 0.039               | 4.0                  | 8.0  | 10.0 | 7.5 | 1000                 |      | 1700 | 1900 | 30                   | MMK7,5 393K250K01L4 BULK |
| 0.047               | 4.0                  | 8.0  | 10.0 | 7.5 | 1000                 |      | 1700 | 1900 | 30                   | MMK7,5 473K250K01L4 BULK |
| 0.056               | 4.0                  | 8.0  | 10.0 | 7.5 | 1000                 |      | 1700 | 1900 | 30                   | MMK7,5 563K250K01L4 BULK |
| 0.068               | 4.0                  | 8.0  | 10.0 | 7.5 | 1000                 |      | 1700 | 1900 | 30                   | MMK7,5 683K250K01L4 BULK |
| 0.082               | 4.0                  | 8.0  | 10.0 | 7.5 | 1000                 |      | 1700 | 1900 | 30                   | MMK7,5 823K250K01L4 BULK |
| 0.10                | 4.0                  | 8.0  | 10.0 | 7.5 | 1000                 |      | 1700 | 1900 | 30                   | MMK7,5 104K250K01L4 BULK |
| 0.12                | 5.0                  | 11.0 | 10.0 | 7.5 | 1000                 |      | 1300 | 1500 | 30                   | MMK7,5 124K250K03L4 BULK |
| 0.15                | 5.0                  | 11.0 | 10.0 | 7.5 | 1000                 |      | 1300 | 1500 | 30                   | MMK7,5 154K250K03L4 BULK |

| ARTICLE TABLE          |                      |      |      |      |                      |      |      |      |                      |                          |
|------------------------|----------------------|------|------|------|----------------------|------|------|------|----------------------|--------------------------|
| Capaci-<br>tance<br>µF | Max dimensions in mm |      |      |      | Quantity per package |      |      |      | Max<br>dU/dt<br>V/µs | Article code             |
|                        | B                    | H    | L    | p    | Bulk                 | Tray | Reel | Ammo |                      |                          |
| 250 VDC/160 VAC        |                      |      |      |      |                      |      |      |      |                      |                          |
| LEAD SPACING 7.5 MM    |                      |      |      |      |                      |      |      |      |                      |                          |
| 0.18                   | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 30                   | MMK7,5 184K250K03L4 BULK |
| 0.22                   | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 30                   | MMK7,5 224K250K03L4 BULK |
| 0.27                   | 6.0                  | 12.0 | 10.5 | 7.5  | 1000                 |      | 1000 | 1200 | 30                   | MMK7,5 274K250K04L4 BULK |
| 0.33                   | 6.0                  | 12.0 | 10.5 | 7.5  | 1000                 |      | 1000 | 1200 | 30                   | MMK7,5 334K250K04L4 BULK |
| LEAD SPACING 10 MM     |                      |      |      |      |                      |      |      |      |                      |                          |
| 0.0010                 | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 20                   | MMK10 102K250A01L4 BULK  |
| 0.0012                 | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 20                   | MMK10 122K250A01L4 BULK  |
| 0.0015                 | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 20                   | MMK10 152K250A01L4 BULK  |
| 0.0018                 | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 20                   | MMK10 182K250A01L4 BULK  |
| 0.0022                 | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 20                   | MMK10 222K250A01L4 BULK  |
| 0.0027                 | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 20                   | MMK10 272K250A01L4 BULK  |
| 0.0033                 | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 20                   | MMK10 332K250A01L4 BULK  |
| 0.0039                 | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 20                   | MMK10 392K250A01L4 BULK  |
| 0.0047                 | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 20                   | MMK10 472K250A01L4 BULK  |
| 0.0056                 | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 20                   | MMK10 562K250A01L4 BULK  |
| 0.0068                 | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 20                   | MMK10 682K250A01L4 BULK  |
| 0.0082                 | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 20                   | MMK10 822K250A01L4 BULK  |
| 0.010                  | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 20                   | MMK10 103K250A01L4 BULK  |
| 0.012                  | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 20                   | MMK10 123K250A01L4 BULK  |
| 0.015                  | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 20                   | MMK10 153K250A01L4 BULK  |
| 0.018                  | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 20                   | MMK10 183K250A01L4 BULK  |
| 0.022                  | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 20                   | MMK10 223K250A01L4 BULK  |
| 0.027                  | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 20                   | MMK10 273K250A01L4 BULK  |
| 0.033                  | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 20                   | MMK10 333K250A01L4 BULK  |
| 0.039                  | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 20                   | MMK10 393K250A01L4 BULK  |
| 0.047                  | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 20                   | MMK10 473K250A01L4 BULK  |
| 0.056                  | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 20                   | MMK10 563K250A01L4 BULK  |
| 0.068                  | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 20                   | MMK10 683K250A01L4 BULK  |
| 0.082                  | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 20                   | MMK10 823K250A01L4 BULK  |
| 0.10                   | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 20                   | MMK10 104K250A01L4 BULK  |
| 0.12                   | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 20                   | MMK10 124K250A01L4 BULK  |
| 0.15                   | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 20                   | MMK10 154K250A01L4 BULK  |
| 0.18                   | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 20                   | MMK10 184K250A01L4 BULK  |
| 0.22                   | 4.5                  | 10.5 | 13.0 | 10.0 | 1000                 |      | 800  |      | 20                   | MMK10 224K250A02L4 BULK  |
| 0.27                   | 5.0                  | 11.0 | 13.0 | 10.0 | 800                  |      | 700  |      | 20                   | MMK10 274K250A03L4 BULK  |
| 0.33                   | 6.0                  | 12.0 | 13.0 | 10.0 | 600                  |      | 500  |      | 20                   | MMK10 334K250A04L4 BULK  |
| 0.39                   | 6.0                  | 12.0 | 13.0 | 10.0 | 600                  |      | 500  |      | 20                   | MMK10 394K250A04L4 BULK  |
| LEAD SPACING 15 MM     |                      |      |      |      |                      |      |      |      |                      |                          |
| 0.082                  | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 12                   | MMK15 823K250B04L4 BULK  |
| 0.10                   | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 12                   | MMK15 104K250B04L4 BULK  |
| 0.12                   | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 12                   | MMK15 124K250B04L4 BULK  |
| 0.15                   | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 12                   | MMK15 154K250B04L4 BULK  |
| 0.18                   | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 12                   | MMK15 184K250B04L4 BULK  |
| 0.22                   | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 12                   | MMK15 224K250B04L4 BULK  |
| 0.27                   | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 12                   | MMK15 274K250B04L4 BULK  |
| 0.33                   | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 12                   | MMK15 334K250B04L4 BULK  |
| 0.39                   | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 12                   | MMK15 394K250B04L4 BULK  |
| 0.47                   | 5.5                  | 12.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 12                   | MMK15 474K250B05L4 BULK  |
| 0.56                   | 6.5                  | 12.5 | 18.0 | 15.0 | 1000                 |      | 500  |      | 12                   | MMK15 564K250B10L4 BULK  |
| 0.68                   | 6.5                  | 12.5 | 18.0 | 15.0 | 1000                 |      | 500  |      | 12                   | MMK15 684K250B10L4 BULK  |
| 0.82                   | 7.5                  | 14.5 | 18.0 | 15.0 | 800                  |      | 400  |      | 12                   | MMK15 824K250B06L4 BULK  |
| 1.0                    | 7.5                  | 14.5 | 18.0 | 15.0 | 800                  |      | 400  |      | 12                   | MMK15 105K250B06L4 BULK  |
| 1.2                    | 8.0                  | 15.0 | 18.0 | 15.0 | 600                  |      | 400  |      | 12                   | MMK15 125K250B12L4 BULK  |
| 1.5                    | 9.5                  | 17.5 | 18.0 | 15.0 | 500                  |      | 350  |      | 12                   | MMK15 155K250B14L4 BULK  |
| 1.8                    | 9.5                  | 17.5 | 18.0 | 15.0 | 500                  |      | 350  |      | 12                   | MMK15 185K250B14L4 BULK  |

## ARTICLE TABLE

| Capaci-<br>tance<br>μF | Max dimensions in mm |      |      |      | Quantity per package |      |      |      | Max<br>dU/dt<br>V/μs | Article code              |
|------------------------|----------------------|------|------|------|----------------------|------|------|------|----------------------|---------------------------|
|                        | B                    | H    | L    | p    | Bulk                 | Tray | Reel | Ammo |                      |                           |
| 250 VDC/160 VAC        |                      |      |      |      |                      |      |      |      |                      |                           |
| LEAD SPACING 22.5 MM   |                      |      |      |      |                      |      |      |      |                      |                           |
| 0.47                   | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 8                    | MMK22,5 474K250D13L4 TRAY |
| 0.56                   | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 8                    | MMK22,5 564K250D13L4 TRAY |
| 0.68                   | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 8                    | MMK22,5 684K250D13L4 TRAY |
| 0.82                   | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 8                    | MMK22,5 824K250D13L4 TRAY |
| 1.0                    | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 8                    | MMK22,5 105K250D13L4 TRAY |
| 1.2                    | 7.0                  | 16.5 | 26.0 | 22.5 |                      | 216  |      |      | 8                    | MMK22,5 125K250D17L4 TRAY |
| 1.5                    | 8.0                  | 16.0 | 26.0 | 22.5 |                      | 186  |      |      | 8                    | MMK22,5 155K250D14L4 TRAY |
| 1.8                    | 9.0                  | 18.5 | 26.0 | 22.5 |                      | 168  |      |      | 8                    | MMK22,5 185K250D15L4 TRAY |
| 2.0                    | 9.0                  | 18.5 | 26.0 | 22.5 |                      | 168  |      |      | 8                    | MMK22,5 205K250D15L4 TRAY |
| 2.2                    | 9.0                  | 18.5 | 26.0 | 22.5 |                      | 168  |      |      | 8                    | MMK22,5 225K250D15L4 TRAY |
| 2.7                    | 10.5                 | 19.0 | 26.0 | 22.5 |                      | 264  |      |      | 8                    | MMK22,5 275K250D18L4 TRAY |
| 3.3                    | 11.0                 | 21.5 | 26.0 | 22.5 |                      | 253  |      |      | 8                    | MMK22,5 335K250D16L4 TRAY |
| 3.9                    | 13.5                 | 23.0 | 26.0 | 22.5 |                      | 209  |      |      | 8                    | MMK22,5 395K250D20L4 TRAY |
| 4.7                    | 15.5                 | 24.5 | 26.0 | 22.5 |                      | 176  |      |      | 8                    | MMK22,5 475K250D19L4 TRAY |
| 5.6                    | 15.5                 | 24.5 | 26.0 | 22.5 |                      | 176  |      |      | 8                    | MMK22,5 565K250D19L4 TRAY |
| LEAD SPACING 27.5 MM   |                      |      |      |      |                      |      |      |      |                      |                           |
| 1.5                    | 10.5                 | 20.5 | 31.5 | 27.5 |                      | 216  |      |      | 5                    | MMK27,5 155K250F11L4 TRAY |
| 1.8                    | 10.5                 | 20.5 | 31.5 | 27.5 |                      | 216  |      |      | 5                    | MMK27,5 185K250F11L4 TRAY |
| 2.0                    | 10.5                 | 20.5 | 31.5 | 27.5 |                      | 216  |      |      | 5                    | MMK27,5 205K250F11L4 TRAY |
| 2.2                    | 10.5                 | 20.5 | 31.5 | 27.5 |                      | 216  |      |      | 5                    | MMK27,5 225K250F11L4 TRAY |
| 2.5                    | 10.5                 | 20.5 | 31.5 | 27.5 |                      | 216  |      |      | 5                    | MMK27,5 255K250F11L4 TRAY |
| 2.7                    | 10.5                 | 20.5 | 31.5 | 27.5 |                      | 216  |      |      | 5                    | MMK27,5 275K250F11L4 TRAY |
| 3.3                    | 10.5                 | 20.5 | 31.5 | 27.5 |                      | 216  |      |      | 5                    | MMK27,5 335K250F11L4 TRAY |
| 3.9                    | 11.5                 | 22.5 | 31.5 | 27.5 |                      | 198  |      |      | 5                    | MMK27,5 395K250F12L4 TRAY |
| 4.7                    | 13.5                 | 23.0 | 31.5 | 27.5 |                      | 171  |      |      | 5                    | MMK27,5 475K250F03L4 TRAY |
| 5.6                    | 14.5                 | 24.5 | 31.5 | 27.5 |                      | 153  |      |      | 5                    | MMK27,5 565K250F13L4 TRAY |
| 6.8                    | 17.5                 | 28.0 | 31.5 | 27.5 |                      | 126  |      |      | 5                    | MMK27,5 685K250F14L4 TRAY |
| 8.2                    | 19.0                 | 29.0 | 31.5 | 27.5 |                      | 117  |      |      | 5                    | MMK27,5 825K250F15L4 TRAY |
| 10                     | 21.0                 | 30.0 | 31.5 | 27.5 |                      | 108  |      |      | 5                    | MMK27,5 106K250F16L4 TRAY |
| LEAD SPACING 37.5 MM   |                      |      |      |      |                      |      |      |      |                      |                           |
| 4.7                    | 13.0                 | 24.0 | 41.0 | 37.5 |                      | 140  |      |      | 3                    | MMK37,5 475K250R05L4 TRAY |
| 5.6                    | 13.0                 | 24.0 | 41.0 | 37.5 |                      | 140  |      |      | 3                    | MMK37,5 565K250R05L4 TRAY |
| 6.8                    | 13.0                 | 24.0 | 41.0 | 37.5 |                      | 140  |      |      | 3                    | MMK37,5 685K250R05L4 TRAY |
| 8.2                    | 15.0                 | 26.0 | 41.0 | 37.5 |                      | 119  |      |      | 3                    | MMK37,5 825K250R04L4 TRAY |
| 10                     | 15.0                 | 26.0 | 41.0 | 37.5 |                      | 119  |      |      | 3                    | MMK37,5 106K250R04L4 TRAY |
| 12                     | 16.5                 | 32.0 | 41.0 | 37.5 |                      | 105  |      |      | 3                    | MMK37,5 126K250R02L4 TRAY |
| 15                     | 16.5                 | 32.0 | 41.0 | 37.5 |                      | 105  |      |      | 3                    | MMK37,5 156K250R02L4 TRAY |
| 18                     | 19.0                 | 36.0 | 41.0 | 37.5 |                      | 91   |      |      | 3                    | MMK37,5 186K250R03L4 TRAY |
| 22                     | 21.0                 | 38.0 | 41.0 | 37.5 |                      | 84   |      |      | 3                    | MMK37,5 226K250R06L4 TRAY |

ARTICLE TABLE

| Capaci-<br>tance<br>µF | Max dimensions in mm |   |   |   | Quantity per package |      |      |      | Max<br>dU/dt<br>V/µs | Article code |
|------------------------|----------------------|---|---|---|----------------------|------|------|------|----------------------|--------------|
|                        | B                    | H | L | p | Bulk                 | Tray | Reel | Ammo |                      |              |

400 VDC/200 VAC

LEAD SPACING 5 MM

|        |     |      |     |     |      |  |      |      |    |                        |
|--------|-----|------|-----|-----|------|--|------|------|----|------------------------|
| 0.0010 | 2.5 | 6.5  | 7.2 | 5.0 | 2000 |  | 2500 | 3000 | 50 | MMK5 102K400J01L4 BULK |
| 0.0012 | 2.5 | 6.5  | 7.2 | 5.0 | 2000 |  | 2500 | 3000 | 50 | MMK5 122K400J01L4 BULK |
| 0.0015 | 2.5 | 6.5  | 7.2 | 5.0 | 2000 |  | 2500 | 3000 | 50 | MMK5 152K400J01L4 BULK |
| 0.0018 | 2.5 | 6.5  | 7.2 | 5.0 | 2000 |  | 2500 | 3000 | 50 | MMK5 182K400J01L4 BULK |
| 0.0022 | 2.5 | 6.5  | 7.2 | 5.0 | 2000 |  | 2500 | 3000 | 50 | MMK5 222K400J01L4 BULK |
| 0.0027 | 2.5 | 6.5  | 7.2 | 5.0 | 2000 |  | 2500 | 3000 | 50 | MMK5 272K400J01L4 BULK |
| 0.0033 | 2.5 | 6.5  | 7.2 | 5.0 | 2000 |  | 2500 | 3000 | 50 | MMK5 332K400J01L4 BULK |
| 0.0039 | 2.5 | 6.5  | 7.2 | 5.0 | 2000 |  | 2500 | 3000 | 50 | MMK5 392K400J01L4 BULK |
| 0.0047 | 2.5 | 6.5  | 7.2 | 5.0 | 2000 |  | 2500 | 3000 | 50 | MMK5 472K400J01L4 BULK |
| 0.0056 | 2.5 | 6.5  | 7.2 | 5.0 | 2000 |  | 2500 | 3000 | 50 | MMK5 562K400J01L4 BULK |
| 0.0068 | 2.5 | 6.5  | 7.2 | 5.0 | 2000 |  | 2500 | 3000 | 50 | MMK5 682K400J01L4 BULK |
| 0.0082 | 2.5 | 6.5  | 7.2 | 5.0 | 2000 |  | 2500 | 3000 | 50 | MMK5 822K400J01L4 BULK |
| 0.010  | 2.5 | 6.5  | 7.2 | 5.0 | 2000 |  | 2500 | 3000 | 50 | MMK5 103K400J01L4 BULK |
| 0.012  | 2.5 | 6.5  | 7.2 | 5.0 | 2000 |  | 2500 | 3000 | 50 | MMK5 123K400J01L4 BULK |
| 0.015  | 2.5 | 6.5  | 7.2 | 5.0 | 2000 |  | 2500 | 3000 | 50 | MMK5 153K400J01L4 BULK |
| 0.018  | 3.5 | 8.0  | 7.2 | 5.0 | 2000 |  | 2000 | 2000 | 50 | MMK5 183K400J02L4 BULK |
| 0.022  | 3.5 | 8.0  | 7.2 | 5.0 | 2000 |  | 2000 | 2000 | 50 | MMK5 223K400J02L4 BULK |
| 0.027  | 4.5 | 9.0  | 7.2 | 5.0 | 1000 |  | 1500 | 1700 | 50 | MMK5 273K400J03L4 BULK |
| 0.033  | 4.5 | 9.0  | 7.2 | 5.0 | 1000 |  | 1500 | 1700 | 50 | MMK5 333K400J03L4 BULK |
| 0.039  | 4.5 | 9.0  | 7.2 | 5.0 | 1000 |  | 1500 | 1700 | 50 | MMK5 393K400J03L4 BULK |
| 0.047  | 4.5 | 9.0  | 7.2 | 5.0 | 1000 |  | 1500 | 1700 | 50 | MMK5 473K400J03L4 BULK |
| 0.056  | 6.0 | 11.0 | 7.2 | 5.0 | 1000 |  | 1000 | 1200 | 50 | MMK5 563K400J05L4 BULK |
| 0.068  | 6.0 | 11.0 | 7.2 | 5.0 | 1000 |  | 1000 | 1200 | 50 | MMK5 683K400J05L4 BULK |
| 0.082  | 7.2 | 13.0 | 7.2 | 5.0 | 1000 |  | 800  |      | 50 | MMK5 823K400J06L4 BULK |
| 0.10   | 7.2 | 13.0 | 7.2 | 5.0 | 1000 |  | 800  |      | 50 | MMK5 104K400J06L4 BULK |
| 0.12   | 7.2 | 13.0 | 7.2 | 5.0 | 1000 |  | 800  |      | 50 | MMK5 124K400J06L4 BULK |

LEAD SPACING 7.5 MM

|        |     |      |      |     |      |  |      |      |    |                          |
|--------|-----|------|------|-----|------|--|------|------|----|--------------------------|
| 0.0010 | 2.5 | 6.0  | 10.0 | 7.5 | 2000 |  | 2500 | 3000 | 40 | MMK7,5 102K400K00L4 BULK |
| 0.0012 | 2.5 | 6.0  | 10.0 | 7.5 | 2000 |  | 2500 | 3000 | 40 | MMK7,5 122K400K00L4 BULK |
| 0.0015 | 2.5 | 6.0  | 10.0 | 7.5 | 2000 |  | 2500 | 3000 | 40 | MMK7,5 152K400K00L4 BULK |
| 0.0018 | 2.5 | 6.0  | 10.0 | 7.5 | 2000 |  | 2500 | 3000 | 40 | MMK7,5 182K400K00L4 BULK |
| 0.0022 | 2.5 | 6.0  | 10.0 | 7.5 | 2000 |  | 2500 | 3000 | 40 | MMK7,5 222K400K00L4 BULK |
| 0.0027 | 2.5 | 6.0  | 10.0 | 7.5 | 2000 |  | 2500 | 3000 | 40 | MMK7,5 272K400K00L4 BULK |
| 0.0033 | 2.5 | 6.0  | 10.0 | 7.5 | 2000 |  | 2500 | 3000 | 40 | MMK7,5 332K400K00L4 BULK |
| 0.0039 | 2.5 | 6.0  | 10.0 | 7.5 | 2000 |  | 2500 | 3000 | 40 | MMK7,5 392K400K00L4 BULK |
| 0.0047 | 2.5 | 6.0  | 10.0 | 7.5 | 2000 |  | 2500 | 3000 | 40 | MMK7,5 472K400K00L4 BULK |
| 0.0056 | 2.5 | 6.0  | 10.0 | 7.5 | 2000 |  | 2500 | 3000 | 40 | MMK7,5 562K400K00L4 BULK |
| 0.0068 | 2.5 | 6.0  | 10.0 | 7.5 | 2000 |  | 2500 | 3000 | 40 | MMK7,5 682K400K00L4 BULK |
| 0.0082 | 2.5 | 6.0  | 10.0 | 7.5 | 2000 |  | 2500 | 3000 | 40 | MMK7,5 822K400K00L4 BULK |
| 0.010  | 2.5 | 6.0  | 10.0 | 7.5 | 2000 |  | 2500 | 3000 | 40 | MMK7,5 103K400K00L4 BULK |
| 0.012  | 2.5 | 6.0  | 10.0 | 7.5 | 2000 |  | 2500 | 3000 | 40 | MMK7,5 123K400K00L4 BULK |
| 0.015  | 2.5 | 6.0  | 10.0 | 7.5 | 2000 |  | 2500 | 3000 | 40 | MMK7,5 153K400K00L4 BULK |
| 0.018  | 4.0 | 8.0  | 10.0 | 7.5 | 1000 |  | 1700 | 1900 | 40 | MMK7,5 183K400K01L4 BULK |
| 0.022  | 4.0 | 8.0  | 10.0 | 7.5 | 1000 |  | 1700 | 1900 | 40 | MMK7,5 223K400K01L4 BULK |
| 0.027  | 4.0 | 8.0  | 10.0 | 7.5 | 1000 |  | 1700 | 1900 | 40 | MMK7,5 273K400K01L4 BULK |
| 0.033  | 4.0 | 8.0  | 10.0 | 7.5 | 1000 |  | 1700 | 1900 | 40 | MMK7,5 333K400K01L4 BULK |
| 0.039  | 4.0 | 8.0  | 10.0 | 7.5 | 1000 |  | 1700 | 1900 | 40 | MMK7,5 393K400K01L4 BULK |
| 0.047  | 5.0 | 11.0 | 10.0 | 7.5 | 1000 |  | 1300 | 1500 | 40 | MMK7,5 473K400K03L4 BULK |
| 0.056  | 5.0 | 11.0 | 10.0 | 7.5 | 1000 |  | 1300 | 1500 | 40 | MMK7,5 563K400K03L4 BULK |
| 0.068  | 5.0 | 11.0 | 10.0 | 7.5 | 1000 |  | 1300 | 1500 | 40 | MMK7,5 683K400K03L4 BULK |
| 0.082  | 5.0 | 11.0 | 10.0 | 7.5 | 1000 |  | 1300 | 1500 | 40 | MMK7,5 823K400K03L4 BULK |
| 0.10   | 5.0 | 11.0 | 10.0 | 7.5 | 1000 |  | 1300 | 1500 | 40 | MMK7,5 104K400K03L4 BULK |
| 0.12   | 6.0 | 12.0 | 10.5 | 7.5 | 1000 |  | 1000 | 1200 | 40 | MMK7,5 124K400K04L4 BULK |
| 0.15   | 6.0 | 12.0 | 10.5 | 7.5 | 1000 |  | 1000 | 1200 | 40 | MMK7,5 154K400K04L4 BULK |

## ARTICLE TABLE

| Capacitance<br>μF    | Max dimensions in mm |      |      |      | Quantity per package |      |      |      | Max<br>dU/dt<br>V/μs | Article code              |
|----------------------|----------------------|------|------|------|----------------------|------|------|------|----------------------|---------------------------|
|                      | B                    | H    | L    | p    | Bulk                 | Tray | Reel | Ammo |                      |                           |
| 400 VDC/200 VAC      |                      |      |      |      |                      |      |      |      |                      |                           |
| LEAD SPACING 10 MM   |                      |      |      |      |                      |      |      |      |                      |                           |
| 0.0010               | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 30                   | MMK10 102K400A01L4 BULK   |
| 0.0012               | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 30                   | MMK10 122K400A01L4 BULK   |
| 0.0015               | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 30                   | MMK10 152K400A01L4 BULK   |
| 0.0018               | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 30                   | MMK10 182K400A01L4 BULK   |
| 0.0022               | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 30                   | MMK10 222K400A01L4 BULK   |
| 0.0027               | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 30                   | MMK10 272K400A01L4 BULK   |
| 0.0033               | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 30                   | MMK10 332K400A01L4 BULK   |
| 0.0039               | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 30                   | MMK10 392K400A01L4 BULK   |
| 0.0047               | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 30                   | MMK10 472K400A01L4 BULK   |
| 0.0056               | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 30                   | MMK10 562K400A01L4 BULK   |
| 0.0068               | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 30                   | MMK10 682K400A01L4 BULK   |
| 0.0078               | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 30                   | MMK10 782K400A01L4 BULK   |
| 0.0082               | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 30                   | MMK10 822K400A01L4 BULK   |
| 0.010                | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 30                   | MMK10 103K400A01L4 BULK   |
| 0.012                | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 30                   | MMK10 123K400A01L4 BULK   |
| 0.015                | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 30                   | MMK10 153K400A01L4 BULK   |
| 0.018                | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 30                   | MMK10 183K400A01L4 BULK   |
| 0.022                | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 30                   | MMK10 223K400A01L4 BULK   |
| 0.027                | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 30                   | MMK10 273K400A01L4 BULK   |
| 0.033                | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 30                   | MMK10 333K400A01L4 BULK   |
| 0.039                | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 30                   | MMK10 393K400A01L4 BULK   |
| 0.047                | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 30                   | MMK10 473K400A01L4 BULK   |
| 0.056                | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 30                   | MMK10 563K400A01L4 BULK   |
| 0.068                | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 30                   | MMK10 683K400A01L4 BULK   |
| 0.082                | 4.5                  | 10.5 | 13.0 | 10.0 | 1000                 |      | 800  |      | 30                   | MMK10 823K400A02L4 BULK   |
| 0.10                 | 5.0                  | 11.0 | 13.0 | 10.0 | 800                  |      | 700  |      | 30                   | MMK10 104K400A03L4 BULK   |
| 0.12                 | 5.0                  | 11.0 | 13.0 | 10.0 | 800                  |      | 700  |      | 30                   | MMK10 124K400A03L4 BULK   |
| 0.15                 | 6.0                  | 12.0 | 13.0 | 10.0 | 600                  |      | 500  |      | 30                   | MMK10 154K400A04L4 BULK   |
| LEAD SPACING 15 MM   |                      |      |      |      |                      |      |      |      |                      |                           |
| 0.047                | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 20                   | MMK15 473K400B04L4 BULK   |
| 0.056                | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 20                   | MMK15 563K400B04L4 BULK   |
| 0.068                | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 20                   | MMK15 683K400B04L4 BULK   |
| 0.082                | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 20                   | MMK15 823K400B04L4 BULK   |
| 0.10                 | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 20                   | MMK15 104K400B04L4 BULK   |
| 0.12                 | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 20                   | MMK15 124K400B04L4 BULK   |
| 0.15                 | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 20                   | MMK15 154K400B04L4 BULK   |
| 0.18                 | 5.5                  | 12.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 20                   | MMK15 184K400B05L4 BULK   |
| 0.22                 | 5.5                  | 12.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 20                   | MMK15 224K400B05L4 BULK   |
| 0.27                 | 6.5                  | 12.5 | 18.0 | 15.0 | 1000                 |      | 500  |      | 20                   | MMK15 274K400B10L4 BULK   |
| 0.33                 | 7.5                  | 14.5 | 18.0 | 15.0 | 800                  |      | 400  |      | 20                   | MMK15 334K400B06L4 BULK   |
| 0.39                 | 7.5                  | 14.5 | 18.0 | 15.0 | 800                  |      | 400  |      | 20                   | MMK15 394K400B06L4 BULK   |
| 0.47                 | 8.5                  | 16.0 | 18.0 | 15.0 | 600                  |      | 400  |      | 20                   | MMK15 474K400B11L4 BULK   |
| 0.56                 | 8.5                  | 16.0 | 18.0 | 15.0 | 600                  |      | 400  |      | 20                   | MMK15 564K400B11L4 BULK   |
| 0.68                 | 9.5                  | 17.5 | 18.0 | 15.0 | 500                  |      | 350  |      | 20                   | MMK15 684K400B14L4 BULK   |
| LEAD SPACING 22.5 MM |                      |      |      |      |                      |      |      |      |                      |                           |
| 0.18                 | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 10                   | MMK22,5 184K400D13L4 TRAY |
| 0.22                 | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 10                   | MMK22,5 224K400D13L4 TRAY |
| 0.27                 | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 10                   | MMK22,5 274K400D13L4 TRAY |
| 0.33                 | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 10                   | MMK22,5 334K400D13L4 TRAY |
| 0.39                 | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 10                   | MMK22,5 394K400D13L4 TRAY |
| 0.47                 | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 10                   | MMK22,5 474K400D13L4 TRAY |
| 0.56                 | 7.0                  | 16.5 | 26.0 | 22.5 |                      | 216  |      |      | 10                   | MMK22,5 564K400D17L4 TRAY |
| 0.68                 | 8.0                  | 16.0 | 26.0 | 22.5 |                      | 186  |      |      | 10                   | MMK22,5 684K400D14L4 TRAY |
| 0.82                 | 9.0                  | 18.5 | 26.0 | 22.5 |                      | 168  |      |      | 10                   | MMK22,5 824K400D15L4 TRAY |
| 1.0                  | 9.0                  | 18.5 | 26.0 | 22.5 |                      | 168  |      |      | 10                   | MMK22,5 105K400D15L4 TRAY |

ARTICLE TABLE

| Capaci-<br>tance<br>µF | Max dimensions in mm |   |   |   | Quantity per package |      |      |      | Max<br>dU/dt<br>V/µs | Article code |
|------------------------|----------------------|---|---|---|----------------------|------|------|------|----------------------|--------------|
|                        | B                    | H | L | p | Bulk                 | Tray | Reel | Ammo |                      |              |

400 VDC/200 VAC

LEAD SPACING 22.5 MM

|     |      |      |      |      |  |     |  |  |    |                           |
|-----|------|------|------|------|--|-----|--|--|----|---------------------------|
| 1.2 | 10.5 | 19.0 | 26.0 | 22.5 |  | 264 |  |  | 10 | MMK22,5 125K400D18L4 TRAY |
| 1.5 | 11.0 | 21.5 | 26.0 | 22.5 |  | 253 |  |  | 10 | MMK22,5 155K400D16L4 TRAY |
| 1.8 | 13.5 | 23.0 | 26.0 | 22.5 |  | 209 |  |  | 10 | MMK22,5 185K400D20L4 TRAY |
| 2.2 | 15.5 | 24.5 | 26.0 | 22.5 |  | 176 |  |  | 10 | MMK22,5 225K400D19L4 TRAY |
| 2.7 | 15.5 | 24.5 | 26.0 | 22.5 |  | 176 |  |  | 10 | MMK22,5 275K400D19L4 TRAY |

LEAD SPACING 27.5 MM

|      |      |      |      |      |  |     |  |  |   |                           |
|------|------|------|------|------|--|-----|--|--|---|---------------------------|
| 0.68 | 10.5 | 20.5 | 31.5 | 27.5 |  | 216 |  |  | 8 | MMK27,5 684K400F11L4 TRAY |
| 0.82 | 10.5 | 20.5 | 31.5 | 27.5 |  | 216 |  |  | 8 | MMK27,5 824K400F11L4 TRAY |
| 1.0  | 10.5 | 20.5 | 31.5 | 27.5 |  | 216 |  |  | 8 | MMK27,5 105K400F11L4 TRAY |
| 1.2  | 10.5 | 20.5 | 31.5 | 27.5 |  | 216 |  |  | 8 | MMK27,5 125K400F11L4 TRAY |
| 1.5  | 10.5 | 20.5 | 31.5 | 27.5 |  | 216 |  |  | 8 | MMK27,5 155K400F11L4 TRAY |
| 1.8  | 10.5 | 20.5 | 31.5 | 27.5 |  | 216 |  |  | 8 | MMK27,5 185K400F11L4 TRAY |
| 2.2  | 11.5 | 22.5 | 31.5 | 27.5 |  | 198 |  |  | 8 | MMK27,5 225K400F12L4 TRAY |
| 2.7  | 13.5 | 23.0 | 31.5 | 27.5 |  | 171 |  |  | 8 | MMK27,5 275K400F03L4 TRAY |
| 3.3  | 17.5 | 28.0 | 31.5 | 27.5 |  | 126 |  |  | 8 | MMK27,5 335K400F14L4 TRAY |
| 3.9  | 17.5 | 28.0 | 31.5 | 27.5 |  | 126 |  |  | 8 | MMK27,5 395K400F14L4 TRAY |
| 4.7  | 19.0 | 29.0 | 31.5 | 27.5 |  | 117 |  |  | 8 | MMK27,5 475K400F15L4 TRAY |
| 5.6  | 21.0 | 30.0 | 31.5 | 27.5 |  | 108 |  |  | 8 | MMK27,5 565K400F16L4 TRAY |

LEAD SPACING 37.5 MM

|     |      |      |      |      |  |     |  |  |   |                           |
|-----|------|------|------|------|--|-----|--|--|---|---------------------------|
| 1.8 | 13.0 | 24.0 | 41.0 | 37.5 |  | 140 |  |  | 5 | MMK37,5 185K400R05L4 TRAY |
| 2.2 | 13.0 | 24.0 | 41.0 | 37.5 |  | 140 |  |  | 5 | MMK37,5 225K400R05L4 TRAY |
| 2.7 | 13.0 | 24.0 | 41.0 | 37.5 |  | 140 |  |  | 5 | MMK37,5 275K400R05L4 TRAY |
| 3.3 | 13.0 | 24.0 | 41.0 | 37.5 |  | 140 |  |  | 5 | MMK37,5 335K400R05L4 TRAY |
| 3.9 | 15.0 | 26.0 | 41.0 | 37.5 |  | 119 |  |  | 5 | MMK37,5 395K400R04L4 TRAY |
| 4.7 | 15.0 | 26.0 | 41.0 | 37.5 |  | 119 |  |  | 5 | MMK37,5 475K400R04L4 TRAY |
| 5.6 | 16.5 | 32.0 | 41.0 | 37.5 |  | 105 |  |  | 5 | MMK37,5 565K400R02L4 TRAY |
| 6.8 | 19.0 | 36.0 | 41.0 | 37.5 |  | 91  |  |  | 5 | MMK37,5 685K400R03L4 TRAY |
| 8.2 | 19.0 | 36.0 | 41.0 | 37.5 |  | 91  |  |  | 5 | MMK37,5 825K400R03L4 TRAY |
| 10  | 21.0 | 38.0 | 41.0 | 37.5 |  | 84  |  |  | 5 | MMK37,5 106K400R06L4 TRAY |

630 VDC/220 VAC

LEAD SPACING 5 MM

|        |     |      |     |     |      |  |      |      |    |                        |
|--------|-----|------|-----|-----|------|--|------|------|----|------------------------|
| 0.0010 | 2.5 | 6.5  | 7.2 | 5.0 | 2000 |  | 2500 | 3000 | 80 | MMK5 102K630J01L4 BULK |
| 0.0012 | 2.5 | 6.5  | 7.2 | 5.0 | 2000 |  | 2500 | 3000 | 80 | MMK5 122K630J01L4 BULK |
| 0.0015 | 2.5 | 6.5  | 7.2 | 5.0 | 2000 |  | 2500 | 3000 | 80 | MMK5 152K630J01L4 BULK |
| 0.0018 | 2.5 | 6.5  | 7.2 | 5.0 | 2000 |  | 2500 | 3000 | 80 | MMK5 182K630J01L4 BULK |
| 0.0022 | 2.5 | 6.5  | 7.2 | 5.0 | 2000 |  | 2500 | 3000 | 80 | MMK5 222K630J01L4 BULK |
| 0.0027 | 2.5 | 6.5  | 7.2 | 5.0 | 2000 |  | 2500 | 3000 | 80 | MMK5 272K630J01L4 BULK |
| 0.0033 | 2.5 | 6.5  | 7.2 | 5.0 | 2000 |  | 2500 | 3000 | 80 | MMK5 332K630J01L4 BULK |
| 0.0039 | 2.5 | 6.5  | 7.2 | 5.0 | 2000 |  | 2500 | 3000 | 80 | MMK5 392K630J01L4 BULK |
| 0.0047 | 3.5 | 8.0  | 7.2 | 5.0 | 2000 |  | 2000 | 2000 | 80 | MMK5 472K630J02L4 BULK |
| 0.0056 | 3.5 | 8.0  | 7.2 | 5.0 | 2000 |  | 2000 | 2000 | 80 | MMK5 562K630J02L4 BULK |
| 0.0068 | 3.5 | 8.0  | 7.2 | 5.0 | 2000 |  | 2000 | 2000 | 80 | MMK5 682K630J02L4 BULK |
| 0.0082 | 3.5 | 8.0  | 7.2 | 5.0 | 2000 |  | 2000 | 2000 | 80 | MMK5 822K630J02L4 BULK |
| 0.010  | 3.5 | 8.0  | 7.2 | 5.0 | 2000 |  | 2000 | 2000 | 80 | MMK5 103K630J02L4 BULK |
| 0.012  | 4.5 | 9.0  | 7.2 | 5.0 | 1000 |  | 1500 | 1700 | 80 | MMK5 123K630J03L4 BULK |
| 0.015  | 4.5 | 9.0  | 7.2 | 5.0 | 1000 |  | 1500 | 1700 | 80 | MMK5 153K630J03L4 BULK |
| 0.018  | 4.5 | 9.0  | 7.2 | 5.0 | 1000 |  | 1500 | 1700 | 80 | MMK5 183K630J03L4 BULK |
| 0.022  | 5.0 | 10.0 | 7.2 | 5.0 | 1000 |  | 1300 | 1500 | 80 | MMK5 223K630J04L4 BULK |
| 0.027  | 6.0 | 11.0 | 7.2 | 5.0 | 1000 |  | 1000 | 1200 | 80 | MMK5 273K630J05L4 BULK |
| 0.033  | 6.0 | 11.0 | 7.2 | 5.0 | 1000 |  | 1000 | 1200 | 80 | MMK5 333K630J05L4 BULK |
| 0.039  | 7.2 | 13.0 | 7.2 | 5.0 | 1000 |  | 800  |      | 80 | MMK5 393K630J06L4 BULK |
| 0.047  | 7.2 | 13.0 | 7.2 | 5.0 | 1000 |  | 800  |      | 80 | MMK5 473K630J06L4 BULK |

## ARTICLE TABLE

| Capacitance<br>μF   | Max dimensions in mm |      |      |      | Quantity per package |      |      |      | Max<br>dU/dt<br>V/μs | Article code        |      |
|---------------------|----------------------|------|------|------|----------------------|------|------|------|----------------------|---------------------|------|
|                     | B                    | H    | L    | p    | Bulk                 | Tray | Reel | Ammo |                      |                     |      |
| 630 VDC/220 VAC     |                      |      |      |      |                      |      |      |      |                      |                     |      |
| LEAD SPACING 7.5 MM |                      |      |      |      |                      |      |      |      |                      |                     |      |
| 0.0010              | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 60                   | MMK7,5 102K630K00L4 | BULK |
| 0.0012              | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 60                   | MMK7,5 122K630K00L4 | BULK |
| 0.0015              | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 60                   | MMK7,5 152K630K00L4 | BULK |
| 0.0018              | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 60                   | MMK7,5 182K630K00L4 | BULK |
| 0.0022              | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 60                   | MMK7,5 222K630K00L4 | BULK |
| 0.0027              | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 60                   | MMK7,5 272K630K00L4 | BULK |
| 0.0033              | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 60                   | MMK7,5 332K630K00L4 | BULK |
| 0.0039              | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 60                   | MMK7,5 392K630K00L4 | BULK |
| 0.0047              | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 60                   | MMK7,5 472K630K01L4 | BULK |
| 0.0056              | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 60                   | MMK7,5 562K630K01L4 | BULK |
| 0.0068              | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 60                   | MMK7,5 682K630K01L4 | BULK |
| 0.0082              | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 60                   | MMK7,5 822K630K01L4 | BULK |
| 0.010               | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 60                   | MMK7,5 103K630K01L4 | BULK |
| 0.012               | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 60                   | MMK7,5 123K630K01L4 | BULK |
| 0.015               | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 60                   | MMK7,5 153K630K03L4 | BULK |
| 0.018               | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 60                   | MMK7,5 183K630K03L4 | BULK |
| 0.022               | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 60                   | MMK7,5 223K630K03L4 | BULK |
| 0.027               | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 60                   | MMK7,5 273K630K03L4 | BULK |
| 0.033               | 6.0                  | 12.0 | 10.5 | 7.5  | 1000                 |      | 1000 | 1200 | 60                   | MMK7,5 333K630K04L4 | BULK |
| 0.039               | 6.0                  | 12.0 | 10.5 | 7.5  | 1000                 |      | 1000 | 1200 | 60                   | MMK7,5 393K630K04L4 | BULK |
| LEAD SPACING 10 MM  |                      |      |      |      |                      |      |      |      |                      |                     |      |
| 0.0010              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 40                   | MMK10 102K630A01L4  | BULK |
| 0.0012              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 40                   | MMK10 122K630A01L4  | BULK |
| 0.0015              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 40                   | MMK10 152K630A01L4  | BULK |
| 0.0018              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 40                   | MMK10 182K630A01L4  | BULK |
| 0.0022              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 40                   | MMK10 222K630A01L4  | BULK |
| 0.0027              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 40                   | MMK10 272K630A01L4  | BULK |
| 0.0033              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 40                   | MMK10 332K630A01L4  | BULK |
| 0.0039              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 40                   | MMK10 392K630A01L4  | BULK |
| 0.0047              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 40                   | MMK10 472K630A01L4  | BULK |
| 0.0056              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 40                   | MMK10 562K630A01L4  | BULK |
| 0.0068              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 40                   | MMK10 682K630A01L4  | BULK |
| 0.0078              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 40                   | MMK10 782K630A01L4  | BULK |
| 0.0082              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 40                   | MMK10 822K630A01L4  | BULK |
| 0.010               | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 40                   | MMK10 103K630A01L4  | BULK |
| 0.012               | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 40                   | MMK10 123K630A01L4  | BULK |
| 0.015               | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 40                   | MMK10 153K630A01L4  | BULK |
| 0.018               | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 40                   | MMK10 183K630A01L4  | BULK |
| 0.022               | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 40                   | MMK10 223K630A01L4  | BULK |
| 0.027               | 4.5                  | 10.5 | 13.0 | 10.0 | 1000                 |      | 800  |      | 40                   | MMK10 273K630A02L4  | BULK |
| 0.033               | 4.5                  | 10.5 | 13.0 | 10.0 | 1000                 |      | 800  |      | 40                   | MMK10 333K630A02L4  | BULK |
| 0.039               | 5.0                  | 11.0 | 13.0 | 10.0 | 800                  |      | 700  |      | 40                   | MMK10 393K630A03L4  | BULK |
| 0.047               | 6.0                  | 12.0 | 13.0 | 10.0 | 600                  |      | 500  |      | 40                   | MMK10 473K630A04L4  | BULK |
| 0.056               | 6.0                  | 12.0 | 13.0 | 10.0 | 600                  |      | 500  |      | 40                   | MMK10 563K630A04L4  | BULK |
| LEAD SPACING 15 MM  |                      |      |      |      |                      |      |      |      |                      |                     |      |
| 0.027               | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 25                   | MMK15 273K630B04L4  | BULK |
| 0.033               | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 25                   | MMK15 333K630B04L4  | BULK |
| 0.039               | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 25                   | MMK15 393K630B04L4  | BULK |
| 0.047               | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 25                   | MMK15 473K630B04L4  | BULK |
| 0.056               | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 25                   | MMK15 563K630B04L4  | BULK |
| 0.068               | 5.5                  | 12.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 25                   | MMK15 683K630B05L4  | BULK |
| 0.082               | 6.5                  | 12.5 | 18.0 | 15.0 | 1000                 |      | 500  |      | 25                   | MMK15 823K630B10L4  | BULK |
| 0.10                | 6.5                  | 12.5 | 18.0 | 15.0 | 1000                 |      | 500  |      | 25                   | MMK15 104K630B10L4  | BULK |
| 0.12                | 7.5                  | 14.5 | 18.0 | 15.0 | 800                  |      | 400  |      | 25                   | MMK15 124K630B06L4  | BULK |

## ARTICLE TABLE

| Capaci-<br>tance<br>μF | Max dimensions in mm |      |      |      | Quantity per package |      |      |      | Max<br>dU/dt<br>V/μs | Article code              |
|------------------------|----------------------|------|------|------|----------------------|------|------|------|----------------------|---------------------------|
|                        | B                    | H    | L    | p    | Bulk                 | Tray | Reel | Ammo |                      |                           |
| 630 VDC/220 VAC        |                      |      |      |      |                      |      |      |      |                      |                           |
| LEAD SPACING 15 MM     |                      |      |      |      |                      |      |      |      |                      |                           |
| 0.15                   | 7.5                  | 14.5 | 18.0 | 15.0 | 800                  |      | 400  |      | 25                   | MMK15 154K630B06L4 BULK   |
| 0.18                   | 8.0                  | 15.0 | 18.0 | 15.0 | 600                  |      | 400  |      | 25                   | MMK15 184K630B12L4 BULK   |
| 0.22                   | 9.5                  | 17.5 | 18.0 | 15.0 | 500                  |      | 350  |      | 25                   | MMK15 224K630B14L4 BULK   |
| LEAD SPACING 22.5 MM   |                      |      |      |      |                      |      |      |      |                      |                           |
| 0.082                  | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 12                   | MMK22,5 823K630D13L4 TRAY |
| 0.10                   | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 12                   | MMK22,5 104K630D13L4 TRAY |
| 0.12                   | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 12                   | MMK22,5 124K630D13L4 TRAY |
| 0.15                   | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 12                   | MMK22,5 154K630D13L4 TRAY |
| 0.18                   | 7.0                  | 16.5 | 26.0 | 22.5 |                      | 216  |      |      | 12                   | MMK22,5 184K630D17L4 TRAY |
| 0.22                   | 7.0                  | 16.5 | 26.0 | 22.5 |                      | 216  |      |      | 12                   | MMK22,5 224K630D17L4 TRAY |
| 0.27                   | 8.0                  | 16.0 | 26.0 | 22.5 |                      | 186  |      |      | 12                   | MMK22,5 274K630D14L4 TRAY |
| 0.33                   | 9.0                  | 18.5 | 26.0 | 22.5 |                      | 168  |      |      | 12                   | MMK22,5 334K630D15L4 TRAY |
| 0.39                   | 10.5                 | 19.0 | 26.0 | 22.5 |                      | 264  |      |      | 12                   | MMK22,5 394K630D18L4 TRAY |
| 0.47                   | 11.0                 | 21.5 | 26.0 | 22.5 |                      | 253  |      |      | 12                   | MMK22,5 474K630D16L4 TRAY |
| 0.56                   | 13.5                 | 23.0 | 26.0 | 22.5 |                      | 209  |      |      | 12                   | MMK22,5 564K630D20L4 TRAY |
| 0.68                   | 13.5                 | 23.0 | 26.0 | 22.5 |                      | 209  |      |      | 12                   | MMK22,5 684K630D20L4 TRAY |
| 0.82                   | 15.5                 | 24.5 | 26.0 | 22.5 |                      | 176  |      |      | 12                   | MMK22,5 824K630D19L4 TRAY |
| LEAD SPACING 27.5 MM   |                      |      |      |      |                      |      |      |      |                      |                           |
| 0.33                   | 10.5                 | 20.5 | 31.5 | 27.5 |                      | 216  |      |      | 10                   | MMK27,5 334K630F11L4 TRAY |
| 0.39                   | 10.5                 | 20.5 | 31.5 | 27.5 |                      | 216  |      |      | 10                   | MMK27,5 394K630F11L4 TRAY |
| 0.47                   | 10.5                 | 20.5 | 31.5 | 27.5 |                      | 216  |      |      | 10                   | MMK27,5 474K630F11L4 TRAY |
| 0.56                   | 10.5                 | 20.5 | 31.5 | 27.5 |                      | 216  |      |      | 10                   | MMK27,5 564K630F11L4 TRAY |
| 0.68                   | 11.5                 | 22.5 | 31.5 | 27.5 |                      | 198  |      |      | 10                   | MMK27,5 684K630F12L4 TRAY |
| 0.82                   | 13.5                 | 23.0 | 31.5 | 27.5 |                      | 171  |      |      | 10                   | MMK27,5 824K630F03L4 TRAY |
| 1.0                    | 14.5                 | 24.5 | 31.5 | 27.5 |                      | 153  |      |      | 10                   | MMK27,5 105K630F13L4 TRAY |
| 1.2                    | 17.5                 | 28.0 | 31.5 | 27.5 |                      | 126  |      |      | 10                   | MMK27,5 125K630F14L4 TRAY |
| 1.5                    | 17.5                 | 28.0 | 31.5 | 27.5 |                      | 126  |      |      | 10                   | MMK27,5 155K630F14L4 TRAY |
| 1.8                    | 19.0                 | 29.0 | 31.5 | 27.5 |                      | 117  |      |      | 10                   | MMK27,5 185K630F15L4 TRAY |
| 2.2                    | 21.0                 | 30.0 | 31.5 | 27.5 |                      | 108  |      |      | 10                   | MMK27,5 225K630F16L4 TRAY |
| LEAD SPACING 37.5 MM   |                      |      |      |      |                      |      |      |      |                      |                           |
| 0.82                   | 13.0                 | 24.0 | 41.0 | 37.5 |                      | 140  |      |      | 8                    | MMK37,5 824K630R05L4 TRAY |
| 1.0                    | 13.0                 | 24.0 | 41.0 | 37.5 |                      | 140  |      |      | 8                    | MMK37,5 105K630R05L4 TRAY |
| 1.2                    | 13.0                 | 24.0 | 41.0 | 37.5 |                      | 140  |      |      | 8                    | MMK37,5 125K630R05L4 TRAY |
| 1.5                    | 15.0                 | 26.0 | 41.0 | 37.5 |                      | 119  |      |      | 8                    | MMK37,5 155K630R04L4 TRAY |
| 1.8                    | 15.0                 | 26.0 | 41.0 | 37.5 |                      | 119  |      |      | 8                    | MMK37,5 185K630R04L4 TRAY |
| 2.2                    | 16.5                 | 32.0 | 41.0 | 37.5 |                      | 105  |      |      | 8                    | MMK37,5 225K630R02L4 TRAY |
| 2.7                    | 19.0                 | 36.0 | 41.0 | 37.5 |                      | 91   |      |      | 8                    | MMK37,5 275K630R03L4 TRAY |
| 3.3                    | 19.0                 | 36.0 | 41.0 | 37.5 |                      | 91   |      |      | 8                    | MMK37,5 335K630R03L4 TRAY |
| 3.9                    | 21.0                 | 38.0 | 41.0 | 37.5 |                      | 84   |      |      | 8                    | MMK37,5 395K630R06L4 TRAY |
| 4.7                    | 21.0                 | 38.0 | 41.0 | 37.5 |                      | 84   |      |      | 8                    | MMK37,5 475K630R06L4 TRAY |

## ARTICLE TABLE

| Capacitance<br>μF   | Max dimensions in mm |      |      |      | Quantity per package |      |      |      | Max<br>dU/dt<br>V/μs | Article code              |
|---------------------|----------------------|------|------|------|----------------------|------|------|------|----------------------|---------------------------|
|                     | B                    | H    | L    | p    | Bulk                 | Tray | Reel | Ammo |                      |                           |
| 1000 VDC/250 VAC    |                      |      |      |      |                      |      |      |      |                      |                           |
| LEAD SPACING 5 MM   |                      |      |      |      |                      |      |      |      |                      |                           |
| 0.0010              | 2.5                  | 6.5  | 7.2  | 5.0  | 2000                 |      | 2500 | 3000 | 100                  | MMK5 102K1000J01L4 BULK   |
| 0.0012              | 3.5                  | 8.0  | 7.2  | 5.0  | 2000                 |      | 2000 | 2000 | 100                  | MMK5 122K1000J02L4 BULK   |
| 0.0015              | 3.5                  | 8.0  | 7.2  | 5.0  | 2000                 |      | 2000 | 2000 | 100                  | MMK5 152K1000J02L4 BULK   |
| 0.0018              | 3.5                  | 8.0  | 7.2  | 5.0  | 2000                 |      | 2000 | 2000 | 100                  | MMK5 182K1000J02L4 BULK   |
| 0.0022              | 3.5                  | 8.0  | 7.2  | 5.0  | 2000                 |      | 2000 | 2000 | 100                  | MMK5 222K1000J02L4 BULK   |
| 0.0027              | 3.5                  | 8.0  | 7.2  | 5.0  | 2000                 |      | 2000 | 2000 | 100                  | MMK5 272K1000J02L4 BULK   |
| 0.0033              | 3.5                  | 8.0  | 7.2  | 5.0  | 2000                 |      | 2000 | 2000 | 100                  | MMK5 332K1000J02L4 BULK   |
| 0.0039              | 4.5                  | 9.0  | 7.2  | 5.0  | 1000                 |      | 1500 | 1700 | 100                  | MMK5 392K1000J03L4 BULK   |
| 0.0047              | 4.5                  | 9.0  | 7.2  | 5.0  | 1000                 |      | 1500 | 1700 | 100                  | MMK5 472K1000J03L4 BULK   |
| 0.0056              | 4.5                  | 9.0  | 7.2  | 5.0  | 1000                 |      | 1500 | 1700 | 100                  | MMK5 562K1000J03L4 BULK   |
| 0.0068              | 5.0                  | 10.0 | 7.2  | 5.0  | 1000                 |      | 1300 | 1500 | 100                  | MMK5 682K1000J04L4 BULK   |
| 0.0082              | 6.0                  | 11.0 | 7.2  | 5.0  | 1000                 |      | 1000 | 1200 | 100                  | MMK5 822K1000J05L4 BULK   |
| 0.010               | 6.0                  | 11.0 | 7.2  | 5.0  | 1000                 |      | 1000 | 1200 | 100                  | MMK5 103K1000J05L4 BULK   |
| 0.012               | 7.2                  | 13.0 | 7.2  | 5.0  | 1000                 |      | 800  |      | 100                  | MMK5 123K1000J06L4 BULK   |
| 0.015               | 7.2                  | 13.0 | 7.2  | 5.0  | 1000                 |      | 800  |      | 100                  | MMK5 153K1000J06L4 BULK   |
| LEAD SPACING 7.5 MM |                      |      |      |      |                      |      |      |      |                      |                           |
| 0.0010              | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 80                   | MMK7,5 102K1000K00L4 BULK |
| 0.0012              | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 80                   | MMK7,5 122K1000K00L4 BULK |
| 0.0015              | 2.5                  | 6.0  | 10.0 | 7.5  | 2000                 |      | 2500 | 3000 | 80                   | MMK7,5 152K1000K00L4 BULK |
| 0.0015              | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 80                   | MMK7,5 152K1000K01L4 BULK |
| 0.0018              | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 80                   | MMK7,5 182K1000K01L4 BULK |
| 0.0022              | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 80                   | MMK7,5 222K1000K01L4 BULK |
| 0.0027              | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 80                   | MMK7,5 272K1000K01L4 BULK |
| 0.0033              | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 80                   | MMK7,5 332K1000K01L4 BULK |
| 0.0039              | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 80                   | MMK7,5 392K1000K01L4 BULK |
| 0.0047              | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 80                   | MMK7,5 472K1000K01L4 BULK |
| 0.0056              | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 80                   | MMK7,5 562K1000K01L4 BULK |
| 0.0068              | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 80                   | MMK7,5 682K1000K03L4 BULK |
| 0.0082              | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 80                   | MMK7,5 822K1000K03L4 BULK |
| 0.010               | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 80                   | MMK7,5 103K1000K03L4 BULK |
| 0.012               | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 80                   | MMK7,5 123K1000K03L4 BULK |
| 0.015               | 6.0                  | 12.0 | 10.5 | 7.5  | 1000                 |      | 1000 | 1200 | 80                   | MMK7,5 153K1000K04L4 BULK |
| 0.018               | 6.0                  | 12.0 | 10.5 | 7.5  | 1000                 |      | 1000 | 1200 | 80                   | MMK7,5 183K1000K04L4 BULK |
| LEAD SPACING 10 MM  |                      |      |      |      |                      |      |      |      |                      |                           |
| 0.0010              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 60                   | MMK10 102K1000A01L4 BULK  |
| 0.0012              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 60                   | MMK10 122K1000A01L4 BULK  |
| 0.0015              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 60                   | MMK10 152K1000A01L4 BULK  |
| 0.0018              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 60                   | MMK10 182K1000A01L4 BULK  |
| 0.0022              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 60                   | MMK10 222K1000A01L4 BULK  |
| 0.0027              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 60                   | MMK10 272K1000A01L4 BULK  |
| 0.0033              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 60                   | MMK10 332K1000A01L4 BULK  |
| 0.0039              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 60                   | MMK10 392K1000A01L4 BULK  |
| 0.0047              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 60                   | MMK10 472K1000A01L4 BULK  |
| 0.0056              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 60                   | MMK10 562K1000A01L4 BULK  |
| 0.0068              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 60                   | MMK10 682K1000A01L4 BULK  |
| 0.0082              | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 60                   | MMK10 822K1000A01L4 BULK  |
| 0.010               | 4.5                  | 10.5 | 13.0 | 10.0 | 1000                 |      | 800  |      | 60                   | MMK10 103K1000A02L4 BULK  |
| 0.012               | 4.5                  | 10.5 | 13.0 | 10.0 | 1000                 |      | 800  |      | 60                   | MMK10 123K1000A02L4 BULK  |
| 0.015               | 5.0                  | 11.0 | 13.0 | 10.0 | 800                  |      | 700  |      | 60                   | MMK10 153K1000A03L4 BULK  |
| 0.018               | 6.0                  | 12.0 | 13.0 | 10.0 | 600                  |      | 500  |      | 60                   | MMK10 183K1000A04L4 BULK  |
| 0.022               | 6.0                  | 12.0 | 13.0 | 10.0 | 600                  |      | 500  |      | 60                   | MMK10 223K1000A04L4 BULK  |

## ARTICLE TABLE

| Capaci-<br>tance<br>μF | Max dimensions in mm |      |      |      | Quantity per package |      |      |      | Max<br>dU/dt<br>V/μs | Article code               |
|------------------------|----------------------|------|------|------|----------------------|------|------|------|----------------------|----------------------------|
|                        | B                    | H    | L    | p    | Bulk                 | Tray | Reel | Ammo |                      |                            |
| 1000 VDC/250 VAC       |                      |      |      |      |                      |      |      |      |                      |                            |
| LEAD SPACING 15 MM     |                      |      |      |      |                      |      |      |      |                      |                            |
| 0.0082                 | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 30                   | MMK15 822K1000B04L4 BULK   |
| 0.010                  | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 30                   | MMK15 103K1000B04L4 BULK   |
| 0.012                  | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 30                   | MMK15 123K1000B04L4 BULK   |
| 0.015                  | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 30                   | MMK15 153K1000B04L4 BULK   |
| 0.018                  | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 30                   | MMK15 183K1000B04L4 BULK   |
| 0.022                  | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 30                   | MMK15 223K1000B04L4 BULK   |
| 0.027                  | 5.5                  | 12.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 30                   | MMK15 273K1000B05L4 BULK   |
| 0.033                  | 6.5                  | 12.5 | 18.0 | 15.0 | 1000                 |      | 500  |      | 30                   | MMK15 333K1000B10L4 BULK   |
| 0.039                  | 6.5                  | 12.5 | 18.0 | 15.0 | 1000                 |      | 500  |      | 30                   | MMK15 393K1000B10L4 BULK   |
| 0.047                  | 7.5                  | 14.5 | 18.0 | 15.0 | 800                  |      | 400  |      | 30                   | MMK15 473K1000B06L4 BULK   |
| 0.056                  | 7.5                  | 14.5 | 18.0 | 15.0 | 800                  |      | 400  |      | 30                   | MMK15 563K1000B06L4 BULK   |
| 0.068                  | 8.5                  | 16.0 | 18.0 | 15.0 | 600                  |      | 400  |      | 30                   | MMK15 683K1000B11L4 BULK   |
| 0.082                  | 9.5                  | 17.5 | 18.0 | 15.0 | 500                  |      | 350  |      | 30                   | MMK15 823K1000B14L4 BULK   |
| 0.10                   | 9.5                  | 17.5 | 18.0 | 15.0 | 500                  |      | 350  |      | 30                   | MMK15 104K1000B14L4 BULK   |
| LEAD SPACING 22.5 MM   |                      |      |      |      |                      |      |      |      |                      |                            |
| 0.033                  | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 15                   | MMK22,5 333K1000D13L4 TRAY |
| 0.039                  | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 15                   | MMK22,5 393K1000D13L4 TRAY |
| 0.047                  | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 15                   | MMK22,5 473K1000D13L4 TRAY |
| 0.056                  | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 15                   | MMK22,5 563K1000D13L4 TRAY |
| 0.068                  | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 15                   | MMK22,5 683K1000D13L4 TRAY |
| 0.082                  | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 15                   | MMK22,5 823K1000D13L4 TRAY |
| 0.10                   | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 15                   | MMK22,5 104K1000D13L4 TRAY |
| 0.12                   | 7.0                  | 16.5 | 26.0 | 22.5 |                      | 216  |      |      | 15                   | MMK22,5 124K1000D17L4 TRAY |
| 0.15                   | 7.0                  | 16.5 | 26.0 | 22.5 |                      | 216  |      |      | 15                   | MMK22,5 154K1000D17L4 TRAY |
| 0.18                   | 8.0                  | 16.0 | 26.0 | 22.5 |                      | 186  |      |      | 15                   | MMK22,5 184K1000D14L4 TRAY |
| 0.22                   | 9.0                  | 18.5 | 26.0 | 22.5 |                      | 168  |      |      | 15                   | MMK22,5 224K1000D15L4 TRAY |
| 0.27                   | 10.5                 | 19.0 | 26.0 | 22.5 |                      | 264  |      |      | 15                   | MMK22,5 274K1000D18L4 TRAY |
| 0.33                   | 11.0                 | 21.5 | 26.0 | 22.5 |                      | 253  |      |      | 15                   | MMK22,5 334K1000D16L4 TRAY |
| 0.39                   | 13.5                 | 23.0 | 26.0 | 22.5 |                      | 209  |      |      | 15                   | MMK22,5 394K1000D20L4 TRAY |
| 0.47                   | 13.5                 | 23.0 | 26.0 | 22.5 |                      | 209  |      |      | 15                   | MMK22,5 474K1000D20L4 TRAY |
| 0.56                   | 15.5                 | 24.5 | 26.0 | 22.5 |                      | 176  |      |      | 15                   | MMK22,5 564K1000D19L4 TRAY |
| LEAD SPACING 27.5 MM   |                      |      |      |      |                      |      |      |      |                      |                            |
| 0.33                   | 10.5                 | 20.5 | 31.5 | 27.5 |                      | 216  |      |      | 12                   | MMK27,5 334K1000F11L4 TRAY |
| 0.39                   | 10.5                 | 20.5 | 31.5 | 27.5 |                      | 216  |      |      | 12                   | MMK27,5 394K1000F11L4 TRAY |
| 0.47                   | 11.5                 | 22.5 | 31.5 | 27.5 |                      | 198  |      |      | 12                   | MMK27,5 474K1000F12L4 TRAY |
| 0.56                   | 13.5                 | 23.0 | 31.5 | 27.5 |                      | 171  |      |      | 12                   | MMK27,5 564K1000F03L4 TRAY |
| 0.68                   | 14.5                 | 24.5 | 31.5 | 27.5 |                      | 153  |      |      | 12                   | MMK27,5 684K1000F13L4 TRAY |
| 0.82                   | 17.5                 | 28.0 | 31.5 | 27.5 |                      | 126  |      |      | 12                   | MMK27,5 824K1000F14L4 TRAY |
| 1.0                    | 17.5                 | 28.0 | 31.5 | 27.5 |                      | 126  |      |      | 12                   | MMK27,5 105K1000F14L4 TRAY |
| 1.2                    | 19.0                 | 29.0 | 31.5 | 27.5 |                      | 117  |      |      | 12                   | MMK27,5 125K1000F15L4 TRAY |
| 1.5                    | 21.0                 | 30.0 | 31.5 | 27.5 |                      | 108  |      |      | 12                   | MMK27,5 155K1000F16L4 TRAY |
| LEAD SPACING 37.5 MM   |                      |      |      |      |                      |      |      |      |                      |                            |
| 0.68                   | 13.0                 | 24.0 | 41.0 | 37.5 |                      | 140  |      |      | 10                   | MMK37,5 684K1000R05L4 TRAY |
| 0.82                   | 13.0                 | 24.0 | 41.0 | 37.5 |                      | 140  |      |      | 10                   | MMK37,5 824K1000R05L4 TRAY |
| 1.0                    | 15.0                 | 26.0 | 41.0 | 37.5 |                      | 119  |      |      | 10                   | MMK37,5 105K1000R04L4 TRAY |
| 1.2                    | 15.0                 | 26.0 | 41.0 | 37.5 |                      | 119  |      |      | 10                   | MMK37,5 125K1000R04L4 TRAY |
| 1.5                    | 16.5                 | 32.0 | 41.0 | 37.5 |                      | 105  |      |      | 10                   | MMK37,5 155K1000R02L4 TRAY |
| 1.8                    | 16.5                 | 32.0 | 41.0 | 37.5 |                      | 105  |      |      | 10                   | MMK37,5 185K1000R02L4 TRAY |
| 2.2                    | 19.0                 | 36.0 | 41.0 | 37.5 |                      | 91   |      |      | 10                   | MMK37,5 225K1000R03L4 TRAY |
| 2.7                    | 21.0                 | 38.0 | 41.0 | 37.5 |                      | 84   |      |      | 10                   | MMK37,5 275K1000R06L4 TRAY |