

**R76 Series Double Metallized Polypropylene Film/Foil, Radial****KEMET**  
CHARGED®**Overview**

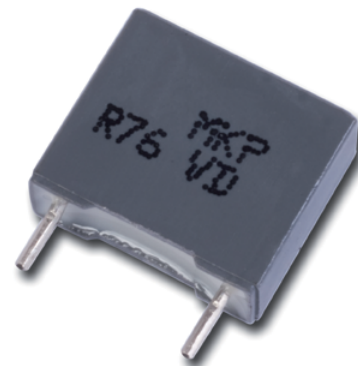
The R76 Series is a polypropylene dielectric with double-metallized polyester film as electrodes. The capacitor is encapsulated in self-extinguishing resin in a box of material meeting the requirements of UL 94 V-0.

**Applications**

Typical applications include deflection circuits in televisions (S-correction and flyback tuning) and monitors, switching spikes suppression in switched mode power supplies (SMPS), lamp capacitors for electronic ballasts and compact lamps, and snubber and silicon-controlled rectifier (SCR) commutation circuits as well as applications with high voltage and high current.

**Benefits**

- Rated voltage: 250 – 2,000 VDC
- Rated voltage: 180 – 700 VAC
- Capacitance range: 0.0001 – 15  $\mu\text{F}$
- Lead spacing: 7.5 – 37.5 mm
- Capacitance tolerance:  $\pm 2.5\%$  (for  $C \geq 0.001 \mu\text{F}$  only),  $\pm 5\%$ ,  $\pm 10\%$
- Climatic category: 55/105/56, IEC 60068-1
- Tape and reel packaging in accordance with IEC 60286-2
- RoHS Compliant and lead-free terminations
- Category temperature range of  $-55^\circ\text{C}$  to  $+105^\circ\text{C}$

**Part Number System**

| R76                      | I                                                                 | D                                                                   | 1680                                                                                                                          | AA                         | 00                        | H                                                                                           |
|--------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------|---------------------------------------------------------------------------------------------|
| Series                   | Rated Voltage (VDC)                                               | Lead Spacing (mm)                                                   | Capacitance Code (pF)                                                                                                         | Lead and Packaging Code    | Internal Use              | Capacitance Tolerance                                                                       |
| Metallized Polypropylene | I = 250<br>M = 400<br>P = 630<br>Q = 1000<br>T = 1600<br>U = 2000 | D = 7.5<br>F = 10.0<br>I = 15.0<br>N = 22.5<br>R = 27.5<br>W = 37.5 | Digits 2 – 4 indicate the first three digits of the capacitance value. First digit indicates the number of zeros to be added. | See Ordering Options Table | 00, 30, 40, 70 (Standard) | H = $\pm 2.5\%$<br>(for $C \geq 0.001 \mu\text{F}$ only)<br>J = $\pm 5\%$<br>K = $\pm 10\%$ |

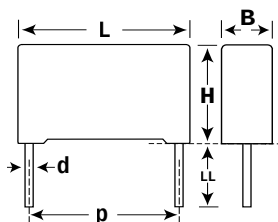
**Ordering Options Table**

| Lead Spacing Nominal (mm) | Type of Leads and Packaging                | Lead Length (mm)             | Lead and Packaging Code |
|---------------------------|--------------------------------------------|------------------------------|-------------------------|
| 7.5                       | <b>Standard Lead and Packaging Options</b> |                              |                         |
|                           | Bulk (Bag) – Short Leads                   | 4 +2/-0                      | SE                      |
|                           | Ammo Pack                                  | H <sub>0</sub> = 18.5 +/-0.5 | DQ                      |
|                           | <b>Other Lead and Packaging Options</b>    |                              |                         |
|                           | Bulk (Bag) – Long Leads                    | 17 +1/-2                     | Z3                      |
|                           | Tape & Reel (Standard Reel)                | H <sub>0</sub> = 18.5 +/-0.5 | GY                      |

## Ordering Options Table cont'd

| Lead Spacing<br>Nominal (mm) | Type of Leads and Packaging                | Lead Length<br>(mm)          | Lead and<br>Packaging<br>Code |
|------------------------------|--------------------------------------------|------------------------------|-------------------------------|
| 10                           | <b>Standard Lead and Packaging Options</b> |                              |                               |
|                              | Bulk (Bag) – Short Leads                   | 4 +2/-0                      | SE                            |
|                              | Ammo Pack                                  | H <sub>0</sub> = 18.5 +/-0.5 | DQ                            |
|                              | <b>Other Lead and Packaging Options</b>    |                              |                               |
|                              | Bulk (Bag) – Long Leads                    | 17 +1/-2                     | Z3                            |
|                              | Tape & Reel (Standard Reel)                | H <sub>0</sub> = 18.5 +/-0.5 | GY                            |
|                              | Tape & Reel (Large Reel)                   | H <sub>0</sub> = 18.5 +/-0.5 | CK                            |
| 15                           | <b>Standard Lead and Packaging Options</b> |                              |                               |
|                              | Bulk (Bag) – Short Leads                   | 4 +2/-0                      | SE                            |
|                              | Ammo Pack                                  | H <sub>0</sub> = 18.5 +/-0.5 | DQ                            |
|                              | <b>Other Lead and Packaging Options</b>    |                              |                               |
|                              | Bulk (Bag) – Long Leads                    | 25 +2/-1                     | 50                            |
|                              | Bulk (Bag) – Max Length Leads              | 30 +5/-0                     | 40                            |
|                              | Tape & Reel (Standard Reel)                | H <sub>0</sub> = 18.5 +/-0.5 | GY                            |
|                              | Tape & Reel (Large Reel)                   | H <sub>0</sub> = 18.5 +/-0.5 | CK                            |
|                              | Pizza Pack                                 | 4 +2/-0                      | BB                            |
| 22.5                         | <b>Standard Lead and Packaging Options</b> |                              |                               |
|                              | Bulk (Tray) – Straight Leads               | 4 +2/-0                      | SE                            |
|                              | Ammo Pack                                  | H <sub>0</sub> = 18.5 +/-0.5 | DQ                            |
|                              | <b>Other Lead and Packaging Options</b>    |                              |                               |
|                              | Bulk (Tray) – Long Leads                   | 25 +2/-1                     | 50                            |
|                              | Bulk (Tray) – Max Length Leads             | 30 +5/-0                     | 40                            |
|                              | Tape & Reel (Large Reel)                   | H <sub>0</sub> = 18.5 +/-0.5 | CK                            |
|                              | Pizza Pack                                 | 4 +2/-0                      | BB                            |
| 27.5                         | <b>Standard Lead and Packaging Options</b> |                              |                               |
|                              | Bulk (Tray) – Straight Leads               | 4 +2/-0                      | SE                            |
|                              | <b>Other Lead and Packaging Options</b>    |                              |                               |
|                              | Bulk (Tray) – Long Leads                   | 25 +2/-1                     | 50                            |
|                              | Bulk (Tray) – Max Length Leads             | 30 +5/-0                     | 40                            |
|                              | Tape & Reel (Large Reel)                   | H <sub>0</sub> = 18.5 +/-0.5 | CK                            |
| 37.5                         | <b>Standard Lead and Packaging Options</b> |                              |                               |
|                              | Tray– Short Leads                          | 4 +2/-0                      | 0                             |
|                              | <b>Other Lead and Packaging Options</b>    |                              |                               |
|                              | Tray– Long Leads                           | 25 +2/-1                     | 50                            |
|                              | Tray– Max Length Leads                     | 30 +5/-0                     | 40                            |

## Dimensions – Millimeters



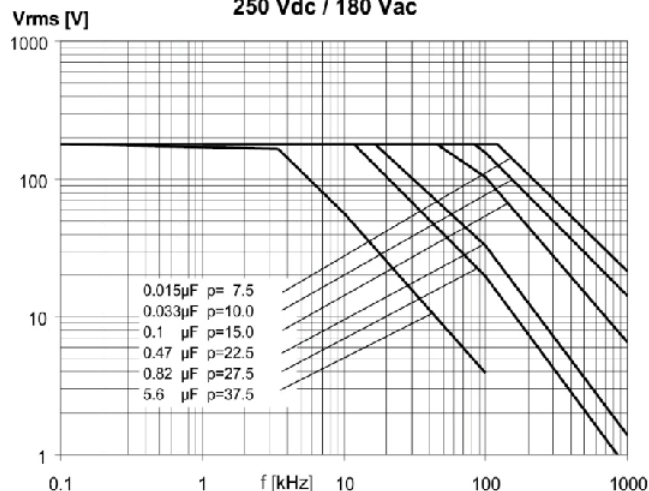
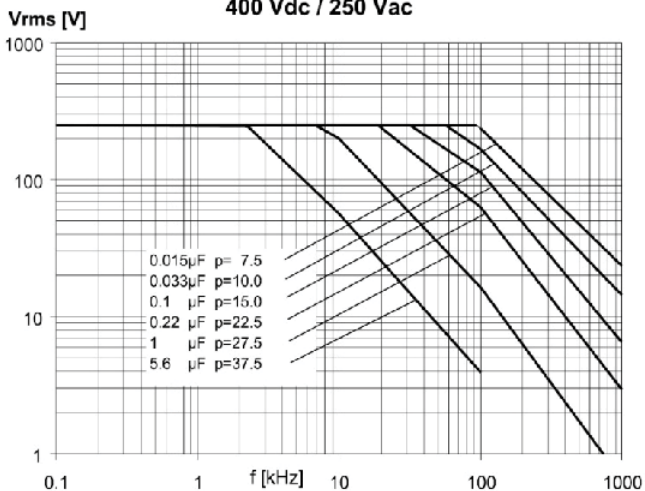
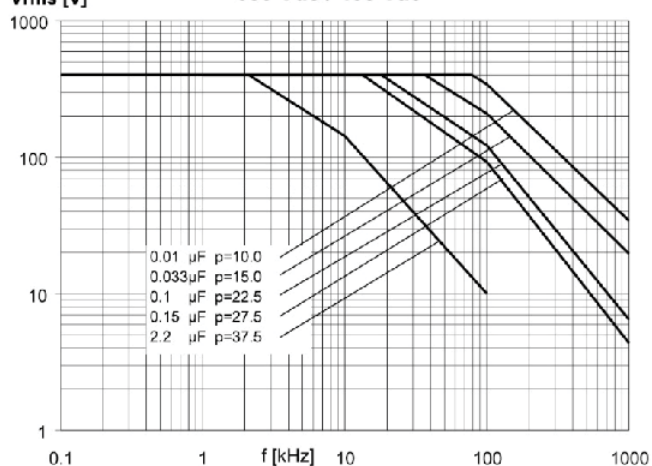
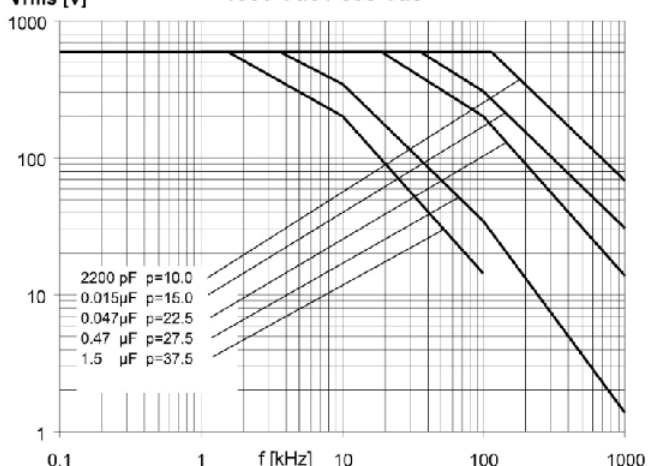
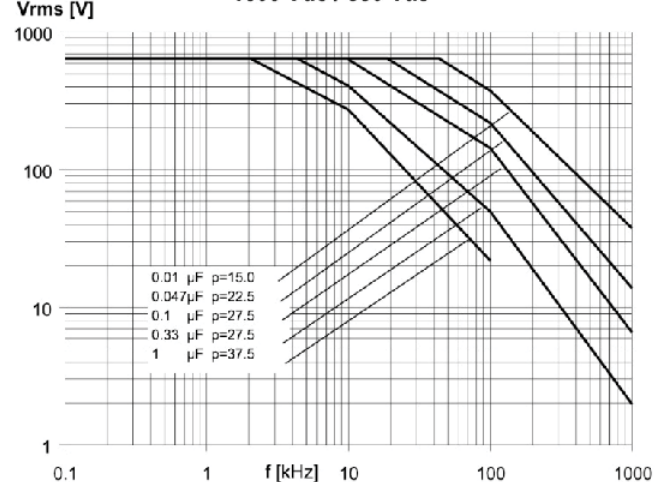
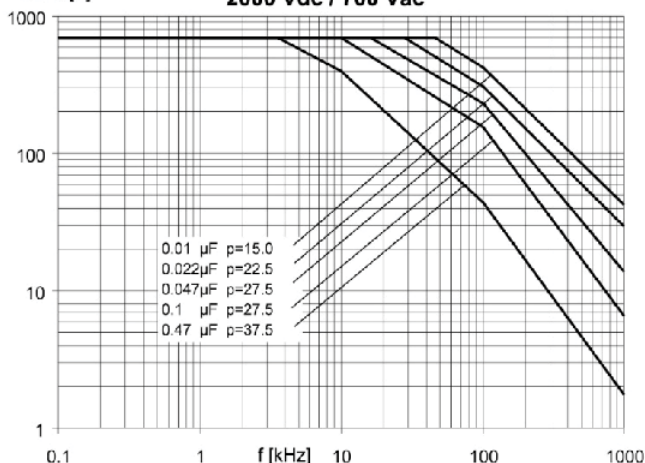
| p       |           | B       |           | H       |           | L       |           | d       |           |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Nominal | Tolerance | Nominal | Tolerance | Nominal | Tolerance | Nominal | Tolerance | Nominal | Tolerance |
| 7.5     | +/-0.4    | 3       | +0.1/-0   | 8       | +0.1/-0   | 10      | +0.2/-0   | 0.5     | +/-0.05   |
| 7.5     | +/-0.4    | 4       | +0.1/-0   | 9       | +0.1/-0   | 10      | +0.2/-0   | 0.6     | +/-0.05   |
| 7.5     | +/-0.4    | 5       | +0.1/-0   | 10.5    | +0.1/-0   | 10      | +0.2/-0   | 0.6     | +/-0.05   |
| 7.5     | +/-0.4    | 6       | +0.1/-0   | 12      | +0.1/-0   | 10.5    | +0.2/-0   | 0.6     | +/-0.05   |
| 10      | +/-0.4    | 4       | +0.2/-0   | 9       | +0.1/-0   | 13      | +0.2/-0   | 0.6     | +/-0.05   |
| 10      | +/-0.4    | 5       | +0.2/-0   | 11      | +0.1/-0   | 13      | +0.2/-0   | 0.6     | +/-0.05   |
| 10      | +/-0.4    | 6       | +0.2/-0   | 12      | +0.1/-0   | 13      | +0.2/-0   | 0.6     | +/-0.05   |
| 15      | +/-0.4    | 4       | +0.2/-0   | 10      | +0.1/-0   | 18      | +0.3/-0   | 0.8     | +/-0.05   |
| 15      | +/-0.4    | 5       | +0.2/-0   | 11      | +0.1/-0   | 18      | +0.3/-0   | 0.8     | +/-0.05   |
| 15      | +/-0.4    | 6       | +0.2/-0   | 12      | +0.1/-0   | 18      | +0.3/-0   | 0.8     | +/-0.05   |
| 15      | +/-0.4    | 7.5     | +0.2/-0   | 13.5    | +0.1/-0   | 18      | +0.5/-0   | 0.8     | +/-0.05   |
| 15      | +/-0.4    | 8.5     | +0.2/-0   | 14.5    | +0.1/-0   | 18      | +0.5/-0   | 0.8     | +/-0.05   |
| 15      | +/-0.4    | 9       | +0.2/-0   | 12.5    | +0.1/-0   | 18      | +0.5/-0   | 0.8     | +/-0.05   |
| 15      | +/-0.4    | 10      | +0.2/-0   | 16      | +0.1/-0   | 18      | +0.5/-0   | 0.8     | +/-0.05   |
| 15      | +/-0.4    | 11      | +0.2/-0   | 19      | +0.1/-0   | 18      | +0.5/-0   | 0.8     | +/-0.05   |
| 15      | +/-0.4    | 13      | +0.2/-0   | 12      | +0.1/-0   | 18      | +0.5/-0   | 0.8     | +/-0.05   |
| 22.5    | +/-0.4    | 6       | +0.2/-0   | 15      | +0.1/-0   | 26.5    | +0.3/-0   | 0.8     | +/-0.05   |
| 22.5    | +/-0.4    | 7       | +0.2/-0   | 16      | +0.1/-0   | 26.5    | +0.3/-0   | 0.8     | +/-0.05   |
| 22.5    | +/-0.4    | 8.5     | +0.2/-0   | 17      | +0.1/-0   | 26.5    | +0.3/-0   | 0.8     | +/-0.05   |
| 22.5    | +/-0.4    | 10      | +0.2/-0   | 18.5    | +0.1/-0   | 26.5    | +0.3/-0   | 0.8     | +/-0.05   |
| 22.5    | +/-0.4    | 11      | +0.2/-0   | 20      | +0.1/-0   | 26.5    | +0.3/-0   | 0.8     | +/-0.05   |
| 22.5    | +/-0.4    | 13      | +0.2/-0   | 22      | +0.1/-0   | 26.5    | +0.3/-0   | 0.8     | +/-0.05   |
| 27.5    | +/-0.4    | 9       | +0.2/-0   | 17      | +0.1/-0   | 32      | +0.3/-0   | 0.8     | +/-0.05   |
| 27.5    | +/-0.4    | 11      | +0.2/-0   | 20      | +0.1/-0   | 32      | +0.3/-0   | 0.8     | +/-0.05   |
| 27.5    | +/-0.4    | 13      | +0.2/-0   | 22      | +0.1/-0   | 32      | +0.3/-0   | 0.8     | +/-0.05   |
| 27.5    | +/-0.4    | 13      | +0.2/-0   | 25      | +0.1/-0   | 32      | +0.3/-0   | 0.8     | +/-0.05   |
| 27.5    | +/-0.4    | 14      | +0.2/-0   | 28      | +0.1/-0   | 32      | +0.3/-0   | 0.8     | +/-0.05   |
| 27.5    | +/-0.4    | 18      | +0.2/-0   | 33      | +0.1/-0   | 32      | +0.3/-0   | 0.8     | +/-0.05   |
| 27.5    | +/-0.4    | 22      | +0.2/-0   | 37      | +0.1/-0   | 32      | +0.3/-0   | 0.8     | +/-0.05   |
| 37.5    | +/-0.4    | 11      | +0.3/-0   | 22      | +0.1/-0   | 41.5    | +0.3/-0   | 1       | +/-0.05   |
| 37.5    | +/-0.4    | 13      | +0.3/-0   | 24      | +0.1/-0   | 41.5    | +0.3/-0   | 1       | +/-0.05   |
| 37.5    | +/-0.4    | 16      | +0.3/-0   | 28.5    | +0.1/-0   | 41.5    | +0.3/-0   | 1       | +/-0.05   |
| 37.5    | +/-0.4    | 19      | +0.3/-0   | 32      | +0.1/-0   | 41.5    | +0.3/-0   | 1       | +/-0.05   |
| 37.5    | +/-0.4    | 20      | +0.3/-0   | 40      | +0.1/-0   | 41.5    | +0.3/-0   | 1       | +/-0.05   |
| 37.5    | +/-0.4    | 24      | +0.3/-0   | 44      | +0.1/-0   | 41.5    | +0.3/-0   | 1       | +/-0.05   |
| 37.5    | +/-0.4    | 30      | +0.3/-0   | 45      | +0.1/-0   | 41.5    | +0.3/-0   | 1       | +/-0.05   |

Note: See Ordering Options Table for lead length (LL) options.

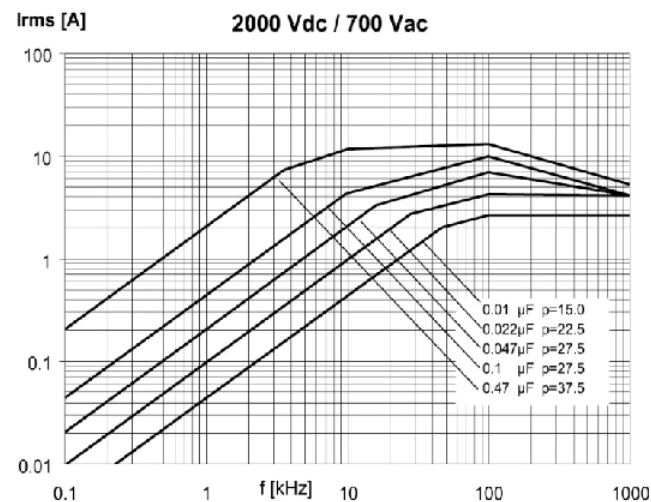
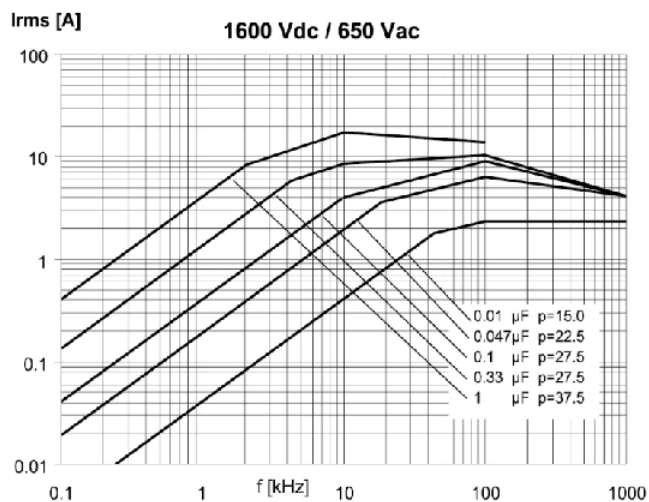
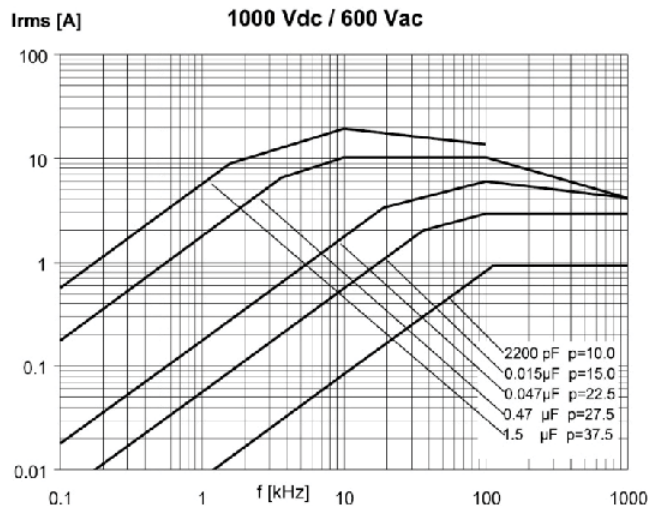
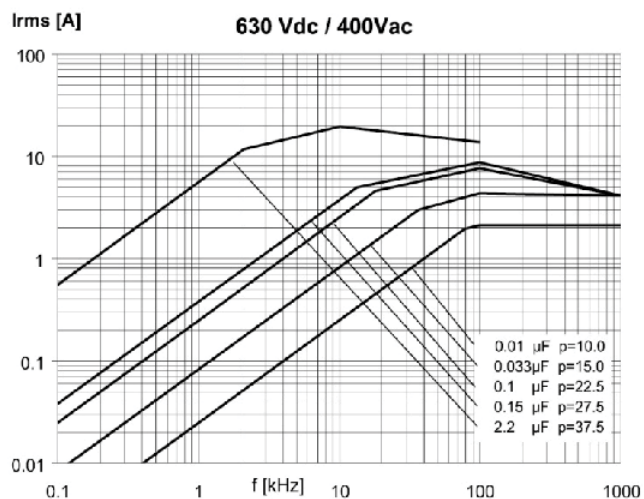
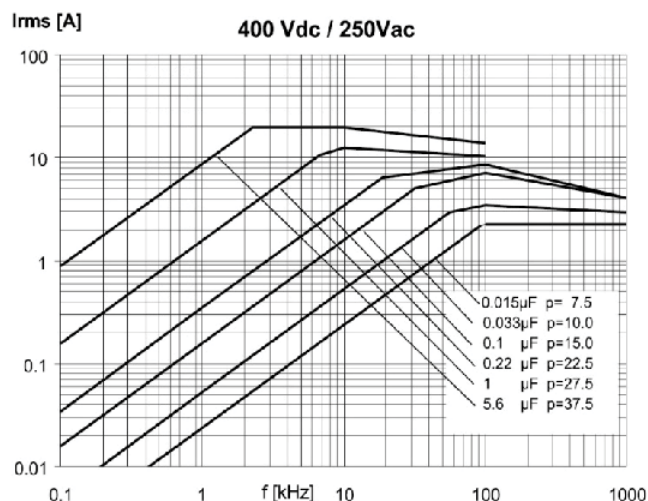
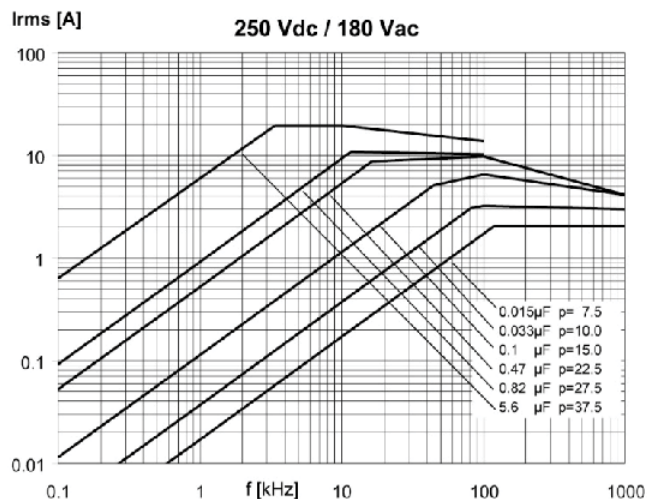
## Performance Characteristics

| Sections                                  | 1                                                                                                                                                                                         | 1            | 1               | 2                   | 2                | 2             | 2            | 2             |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------|---------------------|------------------|---------------|--------------|---------------|
| Voltage Range (VDC)                       | 250                                                                                                                                                                                       | 400          | 630             | 630                 | 1000             | 1000          | 1600         | 2000          |
| Voltage Range (VAC)                       | 180                                                                                                                                                                                       | 250          | 250             | 400                 | 400              | 600           | 650          | 700           |
| Capacitance Range (μF)                    | 0.0068 – 15                                                                                                                                                                               | 0.0027 – 8.2 | 0.00068 – 0.012 | 0.00039 – 5.6       | 0.00022 – 0.0033 | 0.00047 – 2.2 | 0.0033 – 1.2 | 0.0001 – 0.68 |
| Capacitance Values                        | In accordance with IEC E12 series                                                                                                                                                         |              |                 |                     |                  |               |              |               |
| Capacitance Tolerance                     | ±2.5% (for C ≥ 1,000 pF only), ±5%, ±10%                                                                                                                                                  |              |                 |                     |                  |               |              |               |
| Category Temperature Range                | -55°C to +105°C                                                                                                                                                                           |              |                 |                     |                  |               |              |               |
| Voltage Derating                          | The following decreasing factor has to be applied on the rated voltage:<br>+85°C to +105°C: 1.25% per °C for V <sub>R</sub> (DC)<br>+75°C to +105°C: 1.35% per °C for V <sub>R</sub> (AC) |              |                 |                     |                  |               |              |               |
| Climatic Category                         | IEC 60068–1, 55/105/56                                                                                                                                                                    |              |                 |                     |                  |               |              |               |
| Self-Inductance L<br>(Lead Length ~ 2 mm) | Lead Spacing (mm)                                                                                                                                                                         | 7.5          | 10              | 15                  | 22.5             | 27.5          | 37.5         |               |
|                                           | L (nH) ≈                                                                                                                                                                                  | 8            | 9               | 10                  | 18               | 18            | 20           |               |
| Dissipation Factor tanδ                   | Measured at 25°C ± 5°C                                                                                                                                                                    |              |                 |                     |                  |               |              |               |
|                                           |                                                                                                                                                                                           | C ≤ 0.1 μF   |                 | 0.1 μF < C ≤ 1.0 μF |                  | C > 1.0 μF    |              |               |
|                                           | 1 kHz                                                                                                                                                                                     | 0.0003       |                 | 0.0003              |                  | 0.0004        |              |               |
|                                           | 10 kHz                                                                                                                                                                                    | 0.0004       |                 | 0.0006              |                  |               |              |               |
|                                           | 100 kHz                                                                                                                                                                                   | 0.0015       |                 |                     |                  | –             |              |               |
| Insulation Resistance                     | Measured at +25°C, 100 VDC 60 seconds                                                                                                                                                     |              |                 |                     |                  |               |              |               |
|                                           | Minimum Values Between Terminals                                                                                                                                                          |              |                 |                     |                  |               |              |               |
|                                           | C ≤ 0.33 μF                                                                                                                                                                               |              |                 |                     | ≥ 100,000 MΩ     |               |              |               |
|                                           | C > 0.33 μF                                                                                                                                                                               |              |                 |                     | ≥ 30,000 MΩ • μF |               |              |               |
| Test Voltage Between Terminals            | 1.6 x V <sub>R</sub> applied for 2 seconds at 25°C ±5°C                                                                                                                                   |              |                 |                     |                  |               |              |               |

## Maximum Voltage ( $V_{rms}$ ) vs. Frequency (Sinusoidal Waveform/ $T \leq 40^\circ\text{C}$ )

**250 Vdc / 180 Vac**

**400 Vdc / 250 Vac**

**630 Vdc / 400 Vac**

**1000 Vdc / 600 Vac**

**1600 Vdc / 650 Vac**

**2000 Vdc / 700 Vac**


## Maximum Current ( $I_{rms}$ ) vs. Frequency (Sinusoidal Waveform/ $T \leq 40^\circ\text{C}$ )



Note: p (pitch) in mm.

## Environmental Test Data

| Test                         | IEC Publication         | Procedure                                                                                    | Requirements                                                                                                                                                                                                                                                                                                     |
|------------------------------|-------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage Proof                | 60384-1 Clause 4.6      | $1.6 \times V_R$ after 60 seconds                                                            | The capacitors must withstand the voltage without breakdowns or flashovers and without decreased insulation resistance below the value in each detail specification. No visible damage                                                                                                                           |
|                              | Clause 4.6 2.3          | $2 \times V_R$ (minimum 400 VDC to case) after 60 seconds                                    | As above                                                                                                                                                                                                                                                                                                         |
| Vibration                    | 60068-2-6 Test Fc       | 6 hours with 10 – 500 Hz and 0.75 mm amplitude or 98 m/s <sup>2</sup> depending on frequency | No visible damage<br>$\tan\delta \leq 1.2 \times \text{stated value at 100 kHz}$<br>$\Delta C/C \leq \pm 0.5\%$                                                                                                                                                                                                  |
| Bump                         | 60068-2-29 Test Eb      | 4,000 bumps with 390 m/s <sup>2</sup> mounted on PCB                                         | $\Delta C/C \leq \pm 0.5\%$<br>$\tan\delta \leq 1.2 \times \text{stated value at 100 kHz}$<br>Insulation resistance:<br>$\geq 100,000 \text{ M}\Omega$ for $C_R \leq 0.33 \mu\text{F}$<br>$\geq 30,000 \text{ M}\Omega \cdot \mu\text{F}$ for $C_R > 0.33 \mu\text{F}$                                           |
| Resistance to Soldering Heat | 60068-2-20 Method 1A    | Solder bath at $+260^\circ\text{C} \pm 5^\circ\text{C}$ with screening                       | Immersion of the terminations into the solder bath shall be completed in a time not exceeding 1 second and the terminations shall remain immersed to the specified depth for $10 + 1$ second and then be withdrawn.<br>$\Delta C/C \leq \pm 1.0\%$<br>$\tan\delta \text{ increase} < 0.001$<br>No visible damage |
| Climatic Sequence            | 60384-1 Paragraph 4:21  | 60068-2.2 dry heat 16 hours<br>60068-2-34 damp heat, one cycle<br>60068-2-1 Test Aa 2 hours  | Insulation resistance:<br>$\geq 100,000 \text{ M}\Omega$ for $C_R \leq 0.33 \mu\text{F}$<br>$\geq 30,000 \text{ M}\Omega \cdot \mu\text{F}$ for $C_R > 0.33 \mu\text{F}$<br>$\Delta C/C \leq \pm 0.5\%$<br>$\tan\delta \leq 1.2 \times \text{stated value at 100 kHz}$                                           |
| Damp Heat Steady State       | 60068-2-3 Test Ca       | $+40^\circ\text{C}$ and 90 – 95% RH                                                          | 56 days no visible damage<br>Insulation resistance:<br>$\geq 50,000 \text{ M}\Omega$ for $C_R \leq 0.33 \mu\text{F}$<br>$\geq 15,000 \text{ M}\Omega \cdot \mu\text{F}$ for $C_R > 0.33 \mu\text{F}$<br>$\Delta C/C \leq \pm 1\%$<br>$\tan\delta \leq 1.2 \times \text{stated value at 100 kHz}$                 |
| Endurance, AC                |                         | 1,000 hours at $+85^\circ\text{C}$ and $1.25 \times V_R$ AC                                  | No visible damage<br>$\Delta C/C \leq \pm 3\%$<br>$\tan\delta \leq 1.5 \times \text{stated value at 100 kHz}$<br>Insulation resistance:<br>$\geq 100,000 \text{ M}\Omega$ for $C_R \leq 0.33 \mu\text{F}$<br>$\geq 30,000 \text{ M}\Omega \cdot \mu\text{F}$ for $C_R > 0.33 \mu\text{F}$                        |
| Charge and Discharge         | 60384-17 Paragraph 4.13 | 10,000 pulses and with (2 x) dV/dt according to detail specification                         | $\tan\delta$ (100 kHz) $\leq 2 \times \text{stated value (100 kHz)}$<br>$\Delta C/C \leq \pm 0.5\%$<br>Insulation resistance:<br>$\geq 50,000 \text{ M}\Omega$ for $C_R \leq 0.33 \mu\text{F}$<br>$\geq 15,000 \text{ M}\Omega \cdot \mu\text{F}$ for $C_R > 0.33 \mu\text{F}$                                   |

## Environmental Compliance

All KEMET pulse capacitors are RoHS Compliant.



RoHS Compliant

Table 1 – Ratings &amp; Part Number Reference

| VDC | VAC | Capacitance Value (μF) | Dimensions in mm |        |        | Lead Spacing (p) | dV/dt (V/μs) | Max K <sub>0</sub> (V <sup>2</sup> /μs) | New KEMET Part Number | Legacy Part Number |
|-----|-----|------------------------|------------------|--------|--------|------------------|--------------|-----------------------------------------|-----------------------|--------------------|
|     |     |                        | B                | H      | L      |                  |              |                                         |                       |                    |
| 250 | 180 | 0.0068                 | 3.0              | 8.0    | 10.0   | 7.5              | 1100         | 55 E4                                   | 76ID1680(1)30(2)      | R76ID1680(1)30(2)  |
| 250 | 180 | 0.0082                 | 3.0              | 8.0    | 10.0   | 7.5              | 1100         | 55 E4                                   | 76ID1820(1)30(2)      | R76ID1820(1)30(2)  |
| 250 | 180 | 0.010                  | 3.0              | 8.0    | 10.0   | 7.5              | 1100         | 55 E4                                   | 76ID2100(1)30(2)      | R76ID2100(1)30(2)  |
| 250 | 180 | 0.012                  | 4.0              | 9.0    | 10.0   | 7.5              | 1100         | 55 E4                                   | 76ID2120(1)40(2)      | R76ID2120(1)40(2)  |
| 250 | 180 | 0.015                  | 4.0              | 9.0    | 10.0   | 7.5              | 1100         | 55 E4                                   | 76ID2150(1)40(2)      | R76ID2150(1)40(2)  |
| 250 | 180 | 0.018                  | 4.0              | 9.0    | 10.0   | 7.5              | 1100         | 55 E4                                   | 76ID2180(1)40(2)      | R76ID2180(1)40(2)  |
| 250 | 180 | 0.022                  | 4.0              | 9.0    | 10.0   | 7.5              | 1100         | 55 E4                                   | 76ID2220(1)40(2)      | R76ID2220(1)40(2)  |
| 250 | 180 | 0.027                  | 5.0              | 10.5   | 10.0   | 7.5              | 1100         | 55 E4                                   | 76ID2270(1)40(2)      | R76ID2270(1)40(2)  |
| 250 | 180 | 0.033                  | 5.0              | 10.5   | 10.0   | 7.5              | 1100         | 55 E4                                   | 76ID2330(1)40(2)      | R76ID2330(1)40(2)  |
| 250 | 180 | 0.039                  | 6.0              | 12.0   | 10.5   | 7.5              | 1100         | 55 E4                                   | 76ID2390(1)30(2)      | R76ID2390(1)30(2)  |
| 250 | 180 | 0.047                  | 6.0              | 12.0   | 10.5   | 7.5              | 1100         | 55 E4                                   | 76ID2470(1)30(2)      | R76ID2470(1)30(2)  |
| 250 | 180 | 0.027                  | 4.0              | 9.0    | 13.0   | 10.0             | 1000         | 50 E4                                   | 76IF2270(1)30(2)      | R76IF2270(1)30(2)  |
| 250 | 180 | 0.033                  | 4.0              | 9.0    | 13.0   | 10.0             | 1000         | 50 E4                                   | 76IF2330(1)30(2)      | R76IF2330(1)30(2)  |
| 250 | 180 | 0.039                  | 4.0              | 9.0    | 13.0   | 10.0             | 1000         | 50 E4                                   | 76IF2390(1)30(2)      | R76IF2390(1)30(2)  |
| 250 | 180 | 0.047                  | 5.0              | 11.0   | 13.0   | 10.0             | 1000         | 50 E4                                   | 76IF2470(1)30(2)      | R76IF2470(1)30(2)  |
| 250 | 180 | 0.056                  | 5.0              | 11.0   | 13.0   | 10.0             | 1000         | 50 E4                                   | 76IF2560(1)30(2)      | R76IF2560(1)30(2)  |
| 250 | 180 | 0.068                  | 6.0              | 12.0   | 13.0   | 10.0             | 1000         | 50 E4                                   | 76IF2680(1)30(2)      | R76IF2680(1)30(2)  |
| 250 | 180 | 0.082                  | 6.0              | 12.0   | 13.0   | 10.0             | 1000         | 50 E4                                   | 76IF2820(1)30(2)      | R76IF2820(1)30(2)  |
| 250 | 180 | 0.068                  | 5.0              | 11.0   | 18.0   | 15.0             | 550          | 28 E4                                   | 76II2680(1)30(2)      | R76II2680(1)30(2)  |
| 250 | 180 | 0.082                  | 5.0              | 11.0   | 18.0   | 15.0             | 550          | 28 E4                                   | 76II2820(1)30(2)      | R76II2820(1)30(2)  |
| 250 | 180 | 0.10                   | 5.0              | 11.0   | 18.0   | 15.0             | 550          | 28 E4                                   | 76II3100(1)30(2)      | R76II3100(1)30(2)  |
| 250 | 180 | 0.12                   | 6.0              | 12.0   | 18.0   | 15.0             | 550          | 28 E4                                   | 76II3120(1)30(2)      | R76II3120(1)30(2)  |
| 250 | 180 | 0.15                   | 6.0              | 12.0   | 18.0   | 15.0             | 550          | 28 E4                                   | 76II3150(1)30(2)      | R76II3150(1)30(2)  |
| 250 | 180 | 0.18                   | 7.5              | 13.5   | 18.0   | 15.0             | 550          | 28 E4                                   | 76II3180(1)30(2)      | R76II3180(1)30(2)  |
| 250 | 180 | 0.18                   | 9.0              | 12.5   | 18.0   | 15.0             | 550          | 28 E4                                   | 76II3180(1)70(2)      | R76II3180(1)70(2)  |
| 250 | 180 | 0.22                   | 7.5              | 13.5   | 18.0   | 15.0             | 550          | 28 E4                                   | 76II3220(1)30(2)      | R76II3220(1)30(2)  |
| 250 | 180 | 0.22                   | 9.0              | 12.5   | 18.0   | 15.0             | 550          | 28 E4                                   | 76II3220(1)70(2)      | R76II3220(1)70(2)  |
| 250 | 180 | 0.27                   | 8.5              | 14.5   | 18.0   | 15.0             | 550          | 28 E4                                   | 76II3270(1)30(2)      | R76II3270(1)30(2)  |
| 250 | 180 | 0.27                   | 9.0              | 12.5   | 18.0   | 15.0             | 550          | 28 E4                                   | 76II3270(1)70(2)      | R76II3270(1)70(2)  |
| 250 | 180 | 0.33                   | 10.0             | 16.0   | 18.0   | 15.0             | 550          | 28 E4                                   | 76II3330(1)30(2)      | R76II3330(1)30(2)  |
| 250 | 180 | 0.33                   | 13.0             | 12.0   | 18.0   | 15.0             | 550          | 28 E4                                   | 76II3330(1)70(2)      | R76II3330(1)70(2)  |
| 250 | 180 | 0.39                   | 10.0             | 16.0   | 18.0   | 15.0             | 550          | 28 E4                                   | 76II3390(1)30(2)      | R76II3390(1)30(2)  |
| 250 | 180 | 0.47                   | 11.0             | 19.0   | 18.0   | 15.0             | 550          | 28 E4                                   | 76II3470(1)30(2)      | R76II3470(1)30(2)  |
| 250 | 180 | 0.22                   | 6.0              | 15.0   | 26.5   | 22.5             | 250          | 13 E4                                   | 76IN3220(1)00(2)      | R76IN3220(1)00(2)  |
| 250 | 180 | 0.27                   | 6.0              | 15.0   | 26.5   | 22.5             | 250          | 13 E4                                   | 76IN3270(1)30(2)      | R76IN3270(1)30(2)  |
| 250 | 180 | 0.33                   | 6.0              | 15.0   | 26.5   | 22.5             | 250          | 13 E4                                   | 76IN3330(1)30(2)      | R76IN3330(1)30(2)  |
| 250 | 180 | 0.39                   | 7.0              | 16.0   | 26.5   | 22.5             | 250          | 13 E4                                   | 76IN3390(1)30(2)      | R76IN3390(1)30(2)  |
| 250 | 180 | 0.47                   | 7.0              | 16.0   | 26.5   | 22.5             | 250          | 13 E4                                   | 76IN3470(1)30(2)      | R76IN3470(1)30(2)  |
| 250 | 180 | 0.56                   | 8.5              | 17.0   | 26.5   | 22.5             | 250          | 13 E4                                   | 76IN3560(1)30(2)      | R76IN3560(1)30(2)  |
| 250 | 180 | 0.68                   | 10.0             | 18.5   | 26.5   | 22.5             | 250          | 13 E4                                   | 76IN3680(1)30(2)      | R76IN3680(1)30(2)  |
| 250 | 180 | 0.82                   | 10.0             | 18.5   | 26.5   | 22.5             | 250          | 13 E4                                   | 76IN3820(1)30(2)      | R76IN3820(1)30(2)  |
| 250 | 180 | 1.0                    | 11.0             | 20.0   | 26.5   | 22.5             | 250          | 13 E4                                   | 76IN4100(1)30(2)      | R76IN4100(1)30(2)  |
| 250 | 180 | 1.2                    | 13.0             | 22.0   | 26.5   | 22.5             | 250          | 13 E4                                   | 76IN4120(1)30(2)      | R76IN4120(1)30(2)  |
| 250 | 180 | 0.82                   | 9.0              | 17.0   | 32.0   | 27.5             | 200          | 10 E4                                   | 76IR3820(1)30(2)      | R76IR3820(1)30(2)  |
| 250 | 180 | 1.0                    | 11.0             | 20.0   | 32.0   | 27.5             | 200          | 10 E4                                   | 76IR4100(1)30(2)      | R76IR4100(1)30(2)  |
| 250 | 180 | 1.2                    | 11.0             | 20.0   | 32.0   | 27.5             | 200          | 10 E4                                   | 76IR4120(1)40(2)      | R76IR4120(1)40(2)  |
| 250 | 180 | 1.5                    | 13.0             | 22.0   | 32.0   | 27.5             | 200          | 10 E4                                   | 76IR4150(1)30(2)      | R76IR4150(1)30(2)  |
| 250 | 180 | 1.8                    | 13.0             | 22.0   | 32.0   | 27.5             | 200          | 10 E4                                   | 76IR4180(1)40(2)      | R76IR4180(1)40(2)  |
| 250 | 180 | 2.2                    | 14.0             | 28.0   | 32.0   | 27.5             | 200          | 10 E4                                   | 76IR4220(1)40(2)      | R76IR4220(1)40(2)  |
| 250 | 180 | 2.7                    | 18.0             | 33.0   | 32.0   | 27.5             | 200          | 10 E4                                   | 76IR4270(1)30(2)      | R76IR4270(1)30(2)  |
| 250 | 180 | 3.3                    | 18.0             | 33.0   | 32.0   | 27.5             | 200          | 10 E4                                   | 76IR4330(1)30(2)      | R76IR4330(1)30(2)  |
| 250 | 180 | 3.9                    | 18.0             | 33.0   | 32.0   | 27.5             | 200          | 10 E4                                   | 76IR4390(1)30(2)      | R76IR4390(1)30(2)  |
| 250 | 180 | 4.7                    | 22.0             | 37.0   | 32.0   | 27.5             | 200          | 10 E4                                   | 76IR4470(1)30(2)      | R76IR4470(1)30(2)  |
| 250 | 180 | 5.6                    | 22.0             | 37.0   | 32.0   | 27.5             | 200          | 10 E4                                   | 76IR4560(1)40(2)      | R76IR4560(1)40(2)  |
| 250 | 180 | 1.2                    | 11.0             | 22.0   | 41.5   | 37.5             | 100          | 5 E4                                    | 76IW4120(1)30(2)      | R76IW4120(1)30(2)  |
| 250 | 180 | 1.5                    | 11.0             | 22.0   | 41.5   | 37.5             | 100          | 5 E4                                    | 76IW4150(1)30(2)      | R76IW4150(1)30(2)  |
| 250 | 180 | 1.8                    | 11.0             | 22.0   | 41.5   | 37.5             | 100          | 5 E4                                    | 76IW4180(1)30(2)      | R76IW4180(1)30(2)  |
| 250 | 180 | 2.2                    | 13.0             | 24.0   | 41.5   | 37.5             | 100          | 5 E4                                    | 76IW4220(1)30(2)      | R76IW4220(1)30(2)  |
| 250 | 180 | 2.7                    | 13.0             | 24.0   | 41.5   | 37.5             | 100          | 5 E4                                    | 76IW4270(1)30(2)      | R76IW4270(1)30(2)  |
| 250 | 180 | 3.3                    | 16.0             | 28.5   | 41.5   | 37.5             | 100          | 5 E4                                    | 76IW4330(1)30(2)      | R76IW4330(1)30(2)  |
| VDC | VAC | Capacitance Value (μF) | B (mm)           | H (mm) | L (mm) | Lead Spacing (p) | dV/dt (V/μs) | Max K <sub>0</sub> (V <sup>2</sup> /μs) | New KEMET Part Number | Legacy Part Number |

(1) Insert lead and packaging code. See Ordering Options Table for available options.

(2) H = ±2.5% (for C ≥ 0.001 μF only), J = ±5%, K = ±10%.

Table 1 – Ratings &amp; Part Number Reference cont'd

| VDC | VAC | Capacitance Value (μF) | Dimensions in mm |        |        | Lead Spacing (p) | dV/dt (V/μs) | Max K <sub>0</sub> (V <sup>2</sup> /μs) | New KEMET Part Number | Legacy Part Number |
|-----|-----|------------------------|------------------|--------|--------|------------------|--------------|-----------------------------------------|-----------------------|--------------------|
|     |     |                        | B                | H      | L      |                  |              |                                         |                       |                    |
| 250 | 180 | 3.9                    | 16.0             | 28.5   | 41.5   | 37.5             | 100          | 5 E4                                    | 76IW4390(1)30(2)      | R76IW4390(1)30(2)  |
| 250 | 180 | 4.7                    | 19.0             | 32.0   | 41.5   | 37.5             | 100          | 5 E4                                    | 76IW4470(1)30(2)      | R76IW4470(1)30(2)  |
| 250 | 180 | 5.6                    | 19.0             | 32.0   | 41.5   | 37.5             | 100          | 5 E4                                    | 76IW4560(1)30(2)      | R76IW4560(1)30(2)  |
| 250 | 180 | 6.8                    | 20.0             | 40.0   | 41.5   | 37.5             | 100          | 5 E4                                    | 76IW4680(1)30(2)      | R76IW4680(1)30(2)  |
| 250 | 180 | 8.2                    | 20.0             | 40.0   | 41.5   | 37.5             | 100          | 5 E4                                    | 76IW4820(1)30(2)      | R76IW4820(1)30(2)  |
| 250 | 180 | 10.0                   | 24.0             | 44.0   | 41.5   | 37.5             | 100          | 5 E4                                    | 76IW5100(1)30(2)      | R76IW5100(1)30(2)  |
| 250 | 180 | 12.0                   | 30.0             | 45.0   | 41.5   | 37.5             | 100          | 5 E4                                    | 76IW5120(1)30(2)      | R76IW5120(1)30(2)  |
| 250 | 180 | 15.0                   | 30.0             | 45.0   | 41.5   | 37.5             | 100          | 5 E4                                    | 76IW5150(1)30(2)      | R76IW5150(1)30(2)  |
| 400 | 250 | 0.0027                 | 3.0              | 8.0    | 10.0   | 7.5              | 1700         | 136 E4                                  | 76MD1270(1)30(2)      | R76MD1270(1)30(2)  |
| 400 | 250 | 0.0033                 | 3.0              | 8.0    | 10.0   | 7.5              | 1700         | 136 E4                                  | 76MD1330(1)30(2)      | R76MD1330(1)30(2)  |
| 400 | 250 | 0.0039                 | 3.0              | 8.0    | 10.0   | 7.5              | 1700         | 136 E4                                  | 76MD1390(1)30(2)      | R76MD1390(1)30(2)  |
| 400 | 250 | 0.0047                 | 3.0              | 8.0    | 10.0   | 7.5              | 1700         | 136 E4                                  | 76MD1470(1)30(2)      | R76MD1470(1)30(2)  |
| 400 | 250 | 0.0056                 | 3.0              | 8.0    | 10.0   | 7.5              | 1700         | 136 E4                                  | 76MD1560(1)30(2)      | R76MD1560(1)30(2)  |
| 400 | 250 | 0.0068                 | 4.0              | 9.0    | 10.0   | 7.5              | 1700         | 136 E4                                  | 76MD1680(1)40(2)      | R76MD1680(1)40(2)  |
| 400 | 250 | 0.0082                 | 4.0              | 9.0    | 10.0   | 7.5              | 1700         | 136 E4                                  | 76MD1820(1)40(2)      | R76MD1820(1)40(2)  |
| 400 | 250 | 0.010                  | 4.0              | 9.0    | 10.0   | 7.5              | 1700         | 136 E4                                  | 76MD2100(1)40(2)      | R76MD2100(1)40(2)  |
| 400 | 250 | 0.012                  | 4.0              | 9.0    | 10.0   | 7.5              | 1700         | 136 E4                                  | 76MD2120(1)40(2)      | R76MD2120(1)40(2)  |
| 400 | 250 | 0.015                  | 5.0              | 10.5   | 10.0   | 7.5              | 1700         | 136 E4                                  | 76MD2150(1)40(2)      | R76MD2150(1)40(2)  |
| 400 | 250 | 0.018                  | 5.0              | 10.5   | 10.0   | 7.5              | 1700         | 136 E4                                  | 76MD2180(1)40(2)      | R76MD2180(1)40(2)  |
| 400 | 250 | 0.022                  | 6.0              | 12.0   | 10.5   | 7.5              | 1700         | 136 E4                                  | 76MD2220(1)30(2)      | R76MD2220(1)30(2)  |
| 400 | 250 | 0.027                  | 6.0              | 12.0   | 10.5   | 7.5              | 1700         | 136 E4                                  | 76MD2270(1)30(2)      | R76MD2270(1)30(2)  |
| 400 | 250 | 0.010                  | 4.0              | 9.0    | 13.0   | 10.0             | 1500         | 120 E4                                  | 76MF2100(1)00(2)      | R76MF2100(1)00(2)  |
| 400 | 250 | 0.012                  | 4.0              | 9.0    | 13.0   | 10.0             | 1500         | 120 E4                                  | 76MF2120(1)00(2)      | R76MF2120(1)00(2)  |
| 400 | 250 | 0.015                  | 4.0              | 9.0    | 13.0   | 10.0             | 1500         | 120 E4                                  | 76MF2150(1)30(2)      | R76MF2150(1)30(2)  |
| 400 | 250 | 0.018                  | 4.0              | 9.0    | 13.0   | 10.0             | 1500         | 120 E4                                  | 76MF2180(1)30(2)      | R76MF2180(1)30(2)  |
| 400 | 250 | 0.022                  | 4.0              | 9.0    | 13.0   | 10.0             | 1500         | 120 E4                                  | 76MF2220(1)30(2)      | R76MF2220(1)30(2)  |
| 400 | 250 | 0.027                  | 5.0              | 11.0   | 13.0   | 10.0             | 1500         | 120 E4                                  | 76MF2270(1)30(2)      | R76MF2270(1)30(2)  |
| 400 | 250 | 0.033                  | 5.0              | 11.0   | 13.0   | 10.0             | 1500         | 120 E4                                  | 76MF2330(1)30(2)      | R76MF2330(1)30(2)  |
| 400 | 250 | 0.039                  | 6.0              | 12.0   | 13.0   | 10.0             | 1500         | 120 E4                                  | 76MF2390(1)30(2)      | R76MF2390(1)30(2)  |
| 400 | 250 | 0.047                  | 6.0              | 12.0   | 13.0   | 10.0             | 1500         | 120 E4                                  | 76MF2470(1)30(2)      | R76MF2470(1)30(2)  |
| 400 | 250 | 0.033                  | 5.0              | 11.0   | 18.0   | 15.0             | 900          | 72 E4                                   | 76MI2330(1)00(2)      | R76MI2330(1)00(2)  |
| 400 | 250 | 0.039                  | 5.0              | 11.0   | 18.0   | 15.0             | 900          | 72 E4                                   | 76MI2390(1)30(2)      | R76MI2390(1)30(2)  |
| 400 | 250 | 0.047                  | 5.0              | 11.0   | 18.0   | 15.0             | 900          | 72 E4                                   | 76MI2470(1)30(2)      | R76MI2470(1)30(2)  |
| 400 | 250 | 0.056                  | 5.0              | 11.0   | 18.0   | 15.0             | 900          | 72 E4                                   | 76MI2560(1)30(2)      | R76MI2560(1)30(2)  |
| 400 | 250 | 0.068                  | 6.0              | 12.0   | 18.0   | 15.0             | 900          | 72 E4                                   | 76MI2680(1)30(2)      | R76MI2680(1)30(2)  |
| 400 | 250 | 0.082                  | 6.0              | 12.0   | 18.0   | 15.0             | 900          | 72 E4                                   | 76MI2820(1)30(2)      | R76MI2820(1)30(2)  |
| 400 | 250 | 0.10                   | 7.5              | 13.5   | 18.0   | 15.0             | 900          | 72 E4                                   | 76MI3100(1)30(2)      | R76MI3100(1)30(2)  |
| 400 | 250 | 0.10                   | 9.0              | 12.5   | 18.0   | 15.0             | 900          | 72 E4                                   | 76MI3100(1)70(2)      | R76MI3100(1)70(2)  |
| 400 | 250 | 0.12                   | 7.5              | 13.5   | 18.0   | 15.0             | 900          | 72 E4                                   | 76MI3120(1)30(2)      | R76MI3120(1)30(2)  |
| 400 | 250 | 0.12                   | 9.0              | 12.5   | 18.0   | 15.0             | 900          | 72 E4                                   | 76MI3120(1)70(2)      | R76MI3120(1)70(2)  |
| 400 | 250 | 0.15                   | 8.5              | 14.5   | 18.0   | 15.0             | 900          | 72 E4                                   | 76MI3150(1)30(2)      | R76MI3150(1)30(2)  |
| 400 | 250 | 0.15                   | 13.0             | 12.0   | 18.0   | 15.0             | 900          | 72 E4                                   | 76MI3150(1)70(2)      | R76MI3150(1)70(2)  |
| 400 | 250 | 0.18                   | 10.0             | 16.0   | 18.0   | 15.0             | 900          | 72 E4                                   | 76MI3180(1)30(2)      | R76MI3180(1)30(2)  |
| 400 | 250 | 0.18                   | 13.0             | 12.0   | 18.0   | 15.0             | 900          | 72 E4                                   | 76MI3180(1)70(2)      | R76MI3180(1)70(2)  |
| 400 | 250 | 0.22                   | 10.0             | 16.0   | 18.0   | 15.0             | 900          | 72 E4                                   | 76MI3220(1)30(2)      | R76MI3220(1)30(2)  |
| 400 | 250 | 0.27                   | 11.0             | 19.0   | 18.0   | 15.0             | 900          | 72 E4                                   | 76MI3270(1)30(2)      | R76MI3270(1)30(2)  |
| 400 | 250 | 0.12                   | 6.0              | 15.0   | 26.5   | 22.5             | 500          | 40 E4                                   | 76MN3120(1)30(2)      | R76MN3120(1)30(2)  |
| 400 | 250 | 0.15                   | 6.0              | 15.0   | 26.5   | 22.5             | 500          | 40 E4                                   | 76MN3150(1)30(2)      | R76MN3150(1)30(2)  |
| 400 | 250 | 0.18                   | 6.0              | 15.0   | 26.5   | 22.5             | 500          | 40 E4                                   | 76MN3180(1)30(2)      | R76MN3180(1)30(2)  |
| 400 | 250 | 0.22                   | 7.0              | 16.0   | 26.5   | 22.5             | 500          | 40 E4                                   | 76MN3220(1)30(2)      | R76MN3220(1)30(2)  |
| 400 | 250 | 0.27                   | 8.5              | 17.0   | 26.5   | 22.5             | 500          | 40 E4                                   | 76MN3270(1)30(2)      | R76MN3270(1)30(2)  |
| 400 | 250 | 0.33                   | 8.5              | 17.0   | 26.5   | 22.5             | 500          | 40 E4                                   | 76MN3330(1)30(2)      | R76MN3330(1)30(2)  |
| 400 | 250 | 0.39                   | 10.0             | 18.5   | 26.5   | 22.5             | 500          | 40 E4                                   | 76MN3390(1)30(2)      | R76MN3390(1)30(2)  |
| 400 | 250 | 0.47                   | 10.0             | 18.5   | 26.5   | 22.5             | 500          | 40 E4                                   | 76MN3470(1)30(2)      | R76MN3470(1)30(2)  |
| 400 | 250 | 0.56                   | 11.0             | 20.0   | 26.5   | 22.5             | 500          | 40 E4                                   | 76MN3560(1)30(2)      | R76MN3560(1)30(2)  |
| 400 | 250 | 0.68                   | 13.0             | 22.0   | 26.5   | 22.5             | 500          | 40 E4                                   | 76MN3680(1)30(2)      | R76MN3680(1)30(2)  |
| 400 | 250 | 0.39                   | 9.0              | 17.0   | 32.0   | 27.5             | 300          | 24 E4                                   | 76MR3390(1)30(2)      | R76MR3390(1)30(2)  |
| 400 | 250 | 0.47                   | 9.0              | 17.0   | 32.0   | 27.5             | 300          | 24 E4                                   | 76MR3470(1)30(2)      | R76MR3470(1)30(2)  |
| 400 | 250 | 0.56                   | 11.0             | 20.0   | 32.0   | 27.5             | 300          | 24 E4                                   | 76MR3560(1)30(2)      | R76MR3560(1)30(2)  |
| 400 | 250 | 0.68                   | 11.0             | 20.0   | 32.0   | 27.5             | 300          | 24 E4                                   | 76MR3680(1)30(2)      | R76MR3680(1)30(2)  |
| VDC | VAC | Capacitance Value (μF) | B (mm)           | H (mm) | L (mm) | Lead Spacing (p) | dV/dt (V/μs) | Max K <sub>0</sub> (V <sup>2</sup> /μs) | New KEMET Part Number | Legacy Part Number |

(1) Insert lead and packaging code. See Ordering Options Table for available options.

(2) H = ±2.5% (for C ≥ 0.001 μF only), J = ±5%, K = ±10%.

Table 1 – Ratings &amp; Part Number Reference cont'd

| VDC | VAC | Capacitance Value (μF) | Dimensions in mm |        |        | Lead Spacing (p) | dV/dt (V/μs) | Max K <sub>0</sub> (V <sup>2</sup> /μs) | New KEMET Part Number | Legacy Part Number |
|-----|-----|------------------------|------------------|--------|--------|------------------|--------------|-----------------------------------------|-----------------------|--------------------|
|     |     |                        | B                | H      | L      |                  |              |                                         |                       |                    |
| 400 | 250 | 0.82                   | 13.0             | 22.0   | 32.0   | 27.5             | 300          | 24 E4                                   | 76MR3820(1)30(2)      | R76MR3820(1)30(2)  |
| 400 | 250 | 1.0                    | 13.0             | 22.0   | 32.0   | 27.5             | 300          | 24 E4                                   | 76MR4100(1)40(2)      | R76MR4100(1)40(2)  |
| 400 | 250 | 1.2                    | 14.0             | 28.0   | 32.0   | 27.5             | 300          | 24 E4                                   | 76MR4120(1)40(2)      | R76MR4120(1)40(2)  |
| 400 | 250 | 1.5                    | 18.0             | 33.0   | 32.0   | 27.5             | 300          | 24 E4                                   | 76MR4150(1)30(2)      | R76MR4150(1)30(2)  |
| 400 | 250 | 1.8                    | 18.0             | 33.0   | 32.0   | 27.5             | 300          | 24 E4                                   | 76MR4180(1)30(2)      | R76MR4180(1)30(2)  |
| 400 | 250 | 2.2                    | 22.0             | 37.0   | 32.0   | 27.5             | 300          | 24 E4                                   | 76MR4220(1)30(2)      | R76MR4220(1)30(2)  |
| 400 | 250 | 2.7                    | 22.0             | 37.0   | 32.0   | 27.5             | 300          | 24 E4                                   | 76MR4270(1)30(2)      | R76MR4270(1)30(2)  |
| 400 | 250 | 1.0                    | 11.0             | 22.0   | 41.5   | 37.5             | 180          | 14 E4                                   | 76MW4100(1)30(2)      | R76MW4100(1)30(2)  |
| 400 | 250 | 1.2                    | 13.0             | 24.0   | 41.5   | 37.5             | 180          | 14 E4                                   | 76MW4120(1)30(2)      | R76MW4120(1)30(2)  |
| 400 | 250 | 1.5                    | 13.0             | 24.0   | 41.5   | 37.5             | 180          | 14 E4                                   | 76MW4150(1)30(2)      | R76MW4150(1)30(2)  |
| 400 | 250 | 1.8                    | 16.0             | 28.5   | 41.5   | 37.5             | 180          | 14 E4                                   | 76MW4180(1)30(2)      | R76MW4180(1)30(2)  |
| 400 | 250 | 2.2                    | 19.0             | 32.0   | 41.5   | 37.5             | 180          | 14 E4                                   | 76MW4220(1)30(2)      | R76MW4220(1)30(2)  |
| 400 | 250 | 2.7                    | 19.0             | 32.0   | 41.5   | 37.5             | 180          | 14 E4                                   | 76MW4270(1)30(2)      | R76MW4270(1)30(2)  |
| 400 | 250 | 3.3                    | 19.0             | 32.0   | 41.5   | 37.5             | 180          | 14 E4                                   | 76MW4330(1)30(2)      | R76MW4330(1)30(2)  |
| 400 | 250 | 3.9                    | 20.0             | 40.0   | 41.5   | 37.5             | 180          | 14 E4                                   | 76MW4390(1)30(2)      | R76MW4390(1)30(2)  |
| 400 | 250 | 4.7                    | 20.0             | 40.0   | 41.5   | 37.5             | 180          | 14 E4                                   | 76MW4470(1)30(2)      | R76MW4470(1)30(2)  |
| 400 | 250 | 5.6                    | 24.0             | 44.0   | 41.5   | 37.5             | 180          | 14 E4                                   | 76MW4560(1)30(2)      | R76MW4560(1)30(2)  |
| 400 | 250 | 6.8                    | 30.0             | 45.0   | 41.5   | 37.5             | 180          | 14 E4                                   | 76MW4680(1)30(2)      | R76MW4680(1)30(2)  |
| 400 | 250 | 8.2                    | 30.0             | 45.0   | 41.5   | 37.5             | 180          | 14 E4                                   | 76MW4820(1)30(2)      | R76MW4820(1)30(2)  |
| 630 | 250 | 0.00068                | 3.0              | 8.0    | 10.0   | 7.5              | 2800         | 353 E4                                  | 76PD0680(1)00(2)      | R76PD0680(1)00(2)  |
| 630 | 250 | 0.00082                | 3.0              | 8.0    | 10.0   | 7.5              | 2800         | 353 E4                                  | 76PD0820(1)00(2)      | R76PD0820(1)00(2)  |
| 630 | 250 | 0.001                  | 3.0              | 8.0    | 10.0   | 7.5              | 2800         | 353 E4                                  | 76PD1100(1)00(2)      | R76PD1100(1)00(2)  |
| 630 | 250 | 0.0012                 | 3.0              | 8.0    | 10.0   | 7.5              | 2800         | 353 E4                                  | 76PD1120(1)00(2)      | R76PD1120(1)00(2)  |
| 630 | 250 | 0.0015                 | 3.0              | 8.0    | 10.0   | 7.5              | 2800         | 353 E4                                  | 76PD1150(1)00(2)      | R76PD1150(1)00(2)  |
| 630 | 250 | 0.0018                 | 3.0              | 8.0    | 10.0   | 7.5              | 2800         | 353 E4                                  | 76PD1180(1)00(2)      | R76PD1180(1)00(2)  |
| 630 | 250 | 0.0022                 | 3.0              | 8.0    | 10.0   | 7.5              | 2800         | 353 E4                                  | 76PD1220(1)00(2)      | R76PD1220(1)00(2)  |
| 630 | 250 | 0.0027                 | 4.0              | 9.0    | 10.0   | 7.5              | 2800         | 353 E4                                  | 76PD1270(1)40(2)      | R76PD1270(1)40(2)  |
| 630 | 250 | 0.0033                 | 4.0              | 9.0    | 10.0   | 7.5              | 2800         | 355 E4                                  | 76PD1330(1)40(2)      | R76PD1330(1)40(2)  |
| 630 | 250 | 0.0039                 | 4.0              | 9.0    | 10.0   | 7.5              | 2800         | 353 E4                                  | 76PD1390(1)40(2)      | R76PD1390(1)40(2)  |
| 630 | 250 | 0.0047                 | 4.0              | 9.0    | 10.0   | 7.5              | 2800         | 353 E4                                  | 76PD1470(1)40(2)      | R76PD1470(1)40(2)  |
| 630 | 250 | 0.0056                 | 4.0              | 9.0    | 10.0   | 7.5              | 2800         | 353 E4                                  | 76PD1560(1)40(2)      | R76PD1560(1)40(2)  |
| 630 | 250 | 0.0068                 | 5.0              | 10.5   | 10.0   | 7.5              | 2800         | 353 E4                                  | 76PD1680(1)40(2)      | R76PD1680(1)40(2)  |
| 630 | 250 | 0.0082                 | 5.0              | 10.5   | 10.0   | 7.5              | 2800         | 353 E4                                  | 76PD1820(1)40(2)      | R76PD1820(1)40(2)  |
| 630 | 250 | 0.010                  | 6.0              | 12.0   | 10.5   | 7.5              | 2800         | 353 E4                                  | 76PD2100(1)30(2)      | R76PD2100(1)30(2)  |
| 630 | 250 | 0.012                  | 6.0              | 12.0   | 10.5   | 7.5              | 2800         | 353 E4                                  | 76PD2120(1)30(2)      | R76PD2120(1)30(2)  |
| 630 | 400 | 0.0039                 | 4.0              | 9.0    | 13.0   | 10.0             | 3000         | 378 E4                                  | 76PF1390(1)00(2)      | R76PF1390(1)00(2)  |
| 630 | 400 | 0.0047                 | 4.0              | 9.0    | 13.0   | 10.0             | 3000         | 378 E4                                  | 76PF1470(1)00(2)      | R76PF1470(1)00(2)  |
| 630 | 400 | 0.0056                 | 4.0              | 9.0    | 13.0   | 10.0             | 3000         | 378 E4                                  | 76PF1560(1)00(2)      | R76PF1560(1)00(2)  |
| 630 | 400 | 0.0068                 | 4.0              | 9.0    | 13.0   | 10.0             | 3000         | 378 E4                                  | 76PF1680(1)00(2)      | R76PF1680(1)00(2)  |
| 630 | 400 | 0.0082                 | 4.0              | 9.0    | 13.0   | 10.0             | 3000         | 378 E4                                  | 76PF1820(1)00(2)      | R76PF1820(1)00(2)  |
| 630 | 400 | 0.010                  | 5.0              | 11.0   | 13.0   | 10.0             | 3000         | 378 E4                                  | 76PF2100(1)30(2)      | R76PF2100(1)30(2)  |
| 630 | 400 | 0.012                  | 5.0              | 11.0   | 13.0   | 10.0             | 3000         | 378 E4                                  | 76PF2120(1)30(2)      | R76PF2120(1)30(2)  |
| 630 | 400 | 0.015                  | 6.0              | 12.0   | 13.0   | 10.0             | 3000         | 378 E4                                  | 76PF2150(1)30(2)      | R76PF2150(1)30(2)  |
| 630 | 400 | 0.018                  | 6.0              | 12.0   | 13.0   | 10.0             | 3000         | 378 E4                                  | 76PF2180(1)30(2)      | R76PF2180(1)30(2)  |
| 630 | 400 | 0.012                  | 5.0              | 11.0   | 18.0   | 15.0             | 2500         | 315 E4                                  | 76PI2120(1)00(2)      | R76PI2120(1)00(2)  |
| 630 | 400 | 0.015                  | 5.0              | 11.0   | 18.0   | 15.0             | 2500         | 315 E4                                  | 76PI2150(1)00(2)      | R76PI2150(1)00(2)  |
| 630 | 400 | 0.018                  | 5.0              | 11.0   | 18.0   | 15.0             | 2500         | 315 E4                                  | 76PI2180(1)00(2)      | R76PI2180(1)00(2)  |
| 630 | 400 | 0.022                  | 5.0              | 11.0   | 18.0   | 15.0             | 2500         | 315 E4                                  | 76PI2220(1)30(2)      | R76PI2220(1)30(2)  |
| 630 | 400 | 0.027                  | 5.0              | 11.0   | 18.0   | 15.0             | 2500         | 315 E4                                  | 76PI2270(1)30(2)      | R76PI2270(1)30(2)  |
| 630 | 400 | 0.033                  | 6.0              | 12.0   | 18.0   | 15.0             | 2500         | 315 E4                                  | 76PI2330(1)30(2)      | R76PI2330(1)30(2)  |
| 630 | 400 | 0.039                  | 6.0              | 12.0   | 18.0   | 15.0             | 2500         | 315 E4                                  | 76PI2390(1)30(2)      | R76PI2390(1)30(2)  |
| 630 | 400 | 0.047                  | 7.5              | 13.5   | 18.0   | 15.0             | 2500         | 315 E4                                  | 76PI2470(1)30(2)      | R76PI2470(1)30(2)  |
| 630 | 400 | 0.047                  | 9.0              | 12.5   | 18.0   | 15.0             | 2500         | 315 E4                                  | 76PI2470(1)70(2)      | R76PI2470(1)70(2)  |
| 630 | 400 | 0.056                  | 7.5              | 13.5   | 18.0   | 15.0             | 2500         | 315 E4                                  | 76PI2560(1)30(2)      | R76PI2560(1)30(2)  |
| 630 | 400 | 0.056                  | 9.0              | 12.5   | 18.0   | 15.0             | 2500         | 315 E4                                  | 76PI2560(1)70(2)      | R76PI2560(1)70(2)  |
| 630 | 400 | 0.068                  | 8.5              | 14.5   | 18.0   | 15.0             | 2500         | 315 E4                                  | 76PI2680(1)30(2)      | R76PI2680(1)30(2)  |
| 630 | 400 | 0.068                  | 9.0              | 12.5   | 18.0   | 15.0             | 2500         | 315 E4                                  | 76PI2680(1)70(2)      | R76PI2680(1)70(2)  |
| 630 | 400 | 0.082                  | 8.5              | 14.5   | 18.0   | 15.0             | 2500         | 315 E4                                  | 76PI2820(1)30(2)      | R76PI2820(1)30(2)  |
| 630 | 400 | 0.082                  | 13.0             | 12.0   | 18.0   | 15.0             | 2500         | 315 E4                                  | 76PI2820(1)70(2)      | R76PI2820(1)70(2)  |
| 630 | 400 | 0.10                   | 10.0             | 16.0   | 18.0   | 15.0             | 2500         | 315 E4                                  | 76PI3100(1)30(2)      | R76PI3100(1)30(2)  |
| VDC | VAC | Capacitance Value (μF) | B (mm)           | H (mm) | L (mm) | Lead Spacing (p) | dV/dt (V/μs) | Max K <sub>0</sub> (V <sup>2</sup> /μs) | New KEMET Part Number | Legacy Part Number |

(1) Insert lead and packaging code. See Ordering Options Table for available options.

(2) H = ±2.5% (for C ≥ 0.001 μF only), J = ±5%, K = ±10%.

Table 1 – Ratings &amp; Part Number Reference cont'd

| VDC  | VAC | Capacitance Value (μF) | Dimensions in mm |        |        | Lead Spacing (p) | dV/dt (V/μs) | Max K <sub>0</sub> (V <sup>2</sup> /μs) | New KEMET Part Number | Legacy Part Number |
|------|-----|------------------------|------------------|--------|--------|------------------|--------------|-----------------------------------------|-----------------------|--------------------|
|      |     |                        | B                | H      | L      |                  |              |                                         |                       |                    |
| 630  | 400 | 0.12                   | 11.0             | 19.0   | 18.0   | 15.0             | 2500         | 315 E4                                  | 76PI3120(1)30(2)      | R76PI3120(1)30(2)  |
| 630  | 400 | 0.047                  | 6.0              | 15.0   | 26.5   | 22.5             | 1500         | 189 E4                                  | 76PN2470(1)00(2)      | R76PN2470(1)00(2)  |
| 630  | 400 | 0.056                  | 6.0              | 15.0   | 26.5   | 22.5             | 1500         | 189 E4                                  | 76PN2560(1)00(2)      | R76PN2560(1)00(2)  |
| 630  | 400 | 0.068                  | 6.0              | 15.0   | 26.5   | 22.5             | 1500         | 189 E4                                  | 76PN2680(1)00(2)      | R76PN2680(1)00(2)  |
| 630  | 400 | 0.082                  | 6.0              | 15.0   | 26.5   | 22.5             | 1500         | 189 E4                                  | 76PN2820(1)30(2)      | R76PN2820(1)30(2)  |
| 630  | 400 | 0.10                   | 6.0              | 15.0   | 26.5   | 22.5             | 1500         | 189 E4                                  | 76PN3100(1)30(2)      | R76PN3100(1)30(2)  |
| 630  | 400 | 0.12                   | 7.0              | 16.0   | 26.5   | 22.5             | 1500         | 189 E4                                  | 76PN3120(1)30(2)      | R76PN3120(1)30(2)  |
| 630  | 400 | 0.15                   | 8.5              | 17.0   | 26.5   | 22.5             | 1500         | 189 E4                                  | 76PN3150(1)30(2)      | R76PN3150(1)30(2)  |
| 630  | 400 | 0.18                   | 8.5              | 17.0   | 26.5   | 22.5             | 1500         | 189 E4                                  | 76PN3180(1)30(2)      | R76PN3180(1)30(2)  |
| 630  | 400 | 0.22                   | 10.0             | 18.5   | 26.5   | 22.5             | 1500         | 189 E4                                  | 76PN3220(1)30(2)      | R76PN3220(1)30(2)  |
| 630  | 400 | 0.27                   | 11.0             | 20.0   | 26.5   | 22.5             | 1500         | 189 E4                                  | 76PN3270(1)30(2)      | R76PN3270(1)30(2)  |
| 630  | 400 | 0.33                   | 11.0             | 20.0   | 26.5   | 22.5             | 1500         | 189 E4                                  | 76PN3330(1)30(2)      | R76PN3330(1)30(2)  |
| 630  | 400 | 0.39                   | 13.0             | 22.0   | 26.5   | 22.5             | 1500         | 189 E4                                  | 76PN3390(1)30(2)      | R76PN3390(1)30(2)  |
| 630  | 400 | 0.15                   | 9.0              | 17.0   | 32.0   | 27.5             | 900          | 113 E4                                  | 76PR3150(1)30(2)      | R76PR3150(1)30(2)  |
| 630  | 400 | 0.18                   | 9.0              | 17.0   | 32.0   | 27.5             | 900          | 113 E4                                  | 76PR3180(1)30(2)      | R76PR3180(1)30(2)  |
| 630  | 400 | 0.22                   | 9.0              | 17.0   | 32.0   | 27.5             | 900          | 113 E4                                  | 76PR3220(1)30(2)      | R76PR3220(1)30(2)  |
| 630  | 400 | 0.27                   | 9.0              | 17.0   | 32.0   | 27.5             | 900          | 113 E4                                  | 76PR3270(1)30(2)      | R76PR3270(1)30(2)  |
| 630  | 400 | 0.33                   | 11.0             | 20.0   | 32.0   | 27.5             | 900          | 113 E4                                  | 76PR3330(1)40(2)      | R76PR3330(1)40(2)  |
| 630  | 400 | 0.39                   | 11.0             | 20.0   | 32.0   | 27.5             | 900          | 113 E4                                  | 76PR3390(1)30(2)      | R76PR3390(1)30(2)  |
| 630  | 400 | 0.47                   | 13.0             | 22.0   | 32.0   | 27.5             | 900          | 113 E4                                  | 76PR3470(1)30(2)      | R76PR3470(1)30(2)  |
| 630  | 400 | 0.56                   | 13.0             | 22.0   | 32.0   | 27.5             | 900          | 113 E4                                  | 76PR3560(1)30(2)      | R76PR3560(1)30(2)  |
| 630  | 400 | 0.68                   | 13.0             | 25.0   | 32.0   | 27.5             | 900          | 113 E4                                  | 76PR3680(1)40(2)      | R76PR3680(1)40(2)  |
| 630  | 400 | 0.82                   | 14.0             | 28.0   | 32.0   | 27.5             | 900          | 113 E4                                  | 76PR3820(1)30(2)      | R76PR3820(1)30(2)  |
| 630  | 400 | 1.0                    | 18.0             | 33.0   | 32.0   | 27.5             | 900          | 113 E4                                  | 76PR4100(1)30(2)      | R76PR4100(1)30(2)  |
| 630  | 400 | 1.2                    | 18.0             | 33.0   | 32.0   | 27.5             | 900          | 113 E4                                  | 76PR4120(1)30(2)      | R76PR4120(1)30(2)  |
| 630  | 400 | 1.5                    | 22.0             | 37.0   | 32.0   | 27.5             | 900          | 113 E4                                  | 76PR4150(1)30(2)      | R76PR4150(1)30(2)  |
| 630  | 400 | 1.8                    | 22.0             | 37.0   | 32.0   | 27.5             | 900          | 113 E4                                  | 76PR4180(1)30(2)      | R76PR4180(1)30(2)  |
| 630  | 400 | 0.33                   | 11.0             | 22.0   | 41.5   | 37.5             | 450          | 56 E4                                   | 76PW3330(1)30(2)      | R76PW3330(1)30(2)  |
| 630  | 400 | 0.39                   | 11.0             | 22.0   | 41.5   | 37.5             | 450          | 56 E4                                   | 76PW3390(1)30(2)      | R76PW3390(1)30(2)  |
| 630  | 400 | 0.47                   | 11.0             | 22.0   | 41.5   | 37.5             | 450          | 56 E4                                   | 76PW3470(1)30(2)      | R76PW3470(1)30(2)  |
| 630  | 400 | 0.56                   | 11.0             | 22.0   | 41.5   | 37.5             | 450          | 56 E4                                   | 76PW3560(1)30(2)      | R76PW3560(1)30(2)  |
| 630  | 400 | 0.68                   | 11.0             | 22.0   | 41.5   | 37.5             | 450          | 56 E4                                   | 76PW3680(1)30(2)      | R76PW3680(1)30(2)  |
| 630  | 400 | 0.82                   | 13.0             | 24.0   | 41.5   | 37.5             | 450          | 56 E4                                   | 76PW3820(1)30(2)      | R76PW3820(1)30(2)  |
| 630  | 400 | 1.0                    | 16.0             | 28.5   | 41.5   | 37.5             | 450          | 56 E4                                   | 76PW4100(1)30(2)      | R76PW4100(1)30(2)  |
| 630  | 400 | 1.2                    | 16.0             | 28.5   | 41.5   | 37.5             | 450          | 56 E4                                   | 76PW4120(1)30(2)      | R76PW4120(1)30(2)  |
| 630  | 400 | 1.5                    | 16.0             | 28.5   | 41.5   | 37.5             | 450          | 56 E4                                   | 76PW4150(1)30(2)      | R76PW4150(1)30(2)  |
| 630  | 400 | 1.8                    | 19.0             | 32.0   | 41.5   | 37.5             | 450          | 56 E4                                   | 76PW4180(1)30(2)      | R76PW4180(1)30(2)  |
| 630  | 400 | 2.2                    | 20.0             | 40.0   | 41.5   | 37.5             | 450          | 56 E4                                   | 76PW4220(1)30(2)      | R76PW4220(1)30(2)  |
| 630  | 400 | 2.7                    | 20.0             | 40.0   | 41.5   | 37.5             | 450          | 56 E4                                   | 76PW4270(1)30(2)      | R76PW4270(1)30(2)  |
| 630  | 400 | 3.3                    | 24.0             | 44.0   | 41.5   | 37.5             | 450          | 56 E4                                   | 76PW4330(1)30(2)      | R76PW4330(1)30(2)  |
| 630  | 400 | 3.9                    | 30.0             | 45.0   | 41.5   | 37.5             | 450          | 56 E4                                   | 76PW4390(1)30(2)      | R76PW4390(1)30(2)  |
| 630  | 400 | 4.7                    | 30.0             | 45.0   | 41.5   | 37.5             | 450          | 56 E4                                   | 76PW4470(1)30(2)      | R76PW4470(1)30(2)  |
| 630  | 400 | 5.6                    | 30.0             | 45.0   | 41.5   | 37.5             | 450          | 56 E4                                   | 76PW4560(1)30(2)      | R76PW4560(1)30(2)  |
| 1000 | 400 | 0.00022                | 3.0              | 8.0    | 10.0   | 7.5              | 6000         | 1200 E4                                 | 76QD0220(1)00(2)      | R76QD0220(1)00(2)  |
| 1000 | 400 | 0.00027                | 3.0              | 8.0    | 10.0   | 7.5              | 6000         | 1200 E4                                 | 76QD0270(1)00(2)      | R76QD0270(1)00(2)  |
| 1000 | 400 | 0.00033                | 3.0              | 8.0    | 10.0   | 7.5              | 6000         | 1200 E4                                 | 76QD0330(1)00(2)      | R76QD0330(1)00(2)  |
| 1000 | 400 | 0.00039                | 3.0              | 8.0    | 10.0   | 7.5              | 6000         | 1200 E4                                 | 76QD0390(1)00(2)      | R76QD0390(1)00(2)  |
| 1000 | 400 | 0.00047                | 3.0              | 8.0    | 10.0   | 7.5              | 6000         | 1200 E4                                 | 76QD0470(1)00(2)      | R76QD0470(1)00(2)  |
| 1000 | 400 | 0.00056                | 3.0              | 8.0    | 10.0   | 7.5              | 6000         | 1200 E4                                 | 76QD0560(1)00(2)      | R76QD0560(1)00(2)  |
| 1000 | 400 | 0.00068                | 4.0              | 9.0    | 10.0   | 7.5              | 6000         | 1200 E4                                 | 76QD0680(1)40(2)      | R76QD0680(1)40(2)  |
| 1000 | 400 | 0.00082                | 4.0              | 9.0    | 10.0   | 7.5              | 6000         | 1200 E4                                 | 76QD0820(1)40(2)      | R76QD0820(1)40(2)  |
| 1000 | 400 | 0.001                  | 4.0              | 9.0    | 10.0   | 7.5              | 6000         | 1200 E4                                 | 76QD1100(1)40(2)      | R76QD1100(1)40(2)  |
| 1000 | 400 | 0.0012                 | 4.0              | 9.0    | 10.0   | 7.5              | 6000         | 1200 E4                                 | 76QD1120(1)40(2)      | R76QD1120(1)40(2)  |
| 1000 | 400 | 0.0015                 | 5.0              | 10.5   | 10.0   | 7.5              | 6000         | 1200 E4                                 | 76QD1150(1)40(2)      | R76QD1150(1)40(2)  |
| 1000 | 400 | 0.0018                 | 5.0              | 10.5   | 10.0   | 7.5              | 6000         | 1200 E4                                 | 76QD1180(1)40(2)      | R76QD1180(1)40(2)  |
| 1000 | 400 | 0.0022                 | 5.0              | 10.5   | 10.0   | 7.5              | 6000         | 1200 E4                                 | 76QD1220(1)40(2)      | R76QD1220(1)40(2)  |
| 1000 | 400 | 0.0027                 | 6.0              | 12.0   | 10.5   | 7.5              | 6000         | 1200 E4                                 | 76QD1270(1)00(2)      | R76QD1270(1)00(2)  |
| 1000 | 400 | 0.0033                 | 6.0              | 12.0   | 10.5   | 7.5              | 6000         | 1200 E4                                 | 76QD1330(1)00(2)      | R76QD1330(1)00(2)  |
| 1000 | 600 | 0.00047                | 4.0              | 9.0    | 13.0   | 10.0             | 4800         | 960 E4                                  | 76QF0470(1)00(2)      | R76QF0470(1)00(2)  |
| 1000 | 600 | 0.00056                | 4.0              | 9.0    | 13.0   | 10.0             | 4800         | 960 E4                                  | 76QF0560(1)00(2)      | R76QF0560(1)00(2)  |
| VDC  | VAC | Capacitance Value (μF) | B (mm)           | H (mm) | L (mm) | Lead Spacing (p) | dV/dt (V/μs) | Max K <sub>0</sub> (V <sup>2</sup> /μs) | New KEMET Part Number | Legacy Part Number |

(1) Insert lead and packaging code. See Ordering Options Table for available options.

(2) H = ±2.5% (for C ≥ 0.001 μF only), J = ±5%, K = ±10%.

Table 1 – Ratings &amp; Part Number Reference cont'd

| VDC  | VAC | Capacitance Value (μF) | Dimensions in mm |        |        | Lead Spacing (p) | dV/dt (V/μs) | Max K <sub>0</sub> (V <sup>2</sup> /μs) | New KEMET Part Number | Legacy Part Number |
|------|-----|------------------------|------------------|--------|--------|------------------|--------------|-----------------------------------------|-----------------------|--------------------|
|      |     |                        | B                | H      | L      |                  |              |                                         |                       |                    |
| 1000 | 600 | 0.00068                | 4.0              | 9.0    | 13.0   | 10.0             | 4800         | 960 E4                                  | 76QF0680(1)00(2)      | R76QF0680(1)00(2)  |
| 1000 | 600 | 0.00082                | 4.0              | 9.0    | 13.0   | 10.0             | 4800         | 960 E4                                  | 76QF0820(1)00(2)      | R76QF0820(1)00(2)  |
| 1000 | 600 | 0.001                  | 4.0              | 9.0    | 13.0   | 10.0             | 4800         | 960 E4                                  | 76QF1100(1)00(2)      | R76QF1100(1)00(2)  |
| 1000 | 600 | 0.0012                 | 4.0              | 9.0    | 13.0   | 10.0             | 4800         | 960 E4                                  | 76QF1120(1)00(2)      | R76QF1120(1)00(2)  |
| 1000 | 600 | 0.0015                 | 4.0              | 9.0    | 13.0   | 10.0             | 4800         | 960 E4                                  | 76QF1150(1)00(2)      | R76QF1150(1)00(2)  |
| 1000 | 600 | 0.0018                 | 4.0              | 9.0    | 13.0   | 10.0             | 4800         | 960 E4                                  | 76QF1180(1)00(2)      | R76QF1180(1)00(2)  |
| 1000 | 600 | 0.0022                 | 4.0              | 9.0    | 13.0   | 10.0             | 4800         | 960 E4                                  | 76QF1220(1)00(2)      | R76QF1220(1)00(2)  |
| 1000 | 600 | 0.0027                 | 4.0              | 9.0    | 13.0   | 10.0             | 4800         | 960 E4                                  | 76QF1270(1)00(2)      | R76QF1270(1)00(2)  |
| 1000 | 600 | 0.0033                 | 4.0              | 9.0    | 13.0   | 10.0             | 4800         | 960 E4                                  | 76QF1330(1)30(2)      | R76QF1330(1)30(2)  |
| 1000 | 600 | 0.0039                 | 5.0              | 11.0   | 13.0   | 10.0             | 4800         | 960 E4                                  | 76QF1390(1)30(2)      | R76QF1390(1)30(2)  |
| 1000 | 600 | 0.0047                 | 5.0              | 11.0   | 13.0   | 10.0             | 4800         | 960 E4                                  | 76QF1470(1)30(2)      | R76QF1470(1)30(2)  |
| 1000 | 600 | 0.0056                 | 6.0              | 12.0   | 13.0   | 10.0             | 4800         | 960 E4                                  | 76QF1560(1)30(2)      | R76QF1560(1)30(2)  |
| 1000 | 600 | 0.0068                 | 6.0              | 12.0   | 13.0   | 10.0             | 4800         | 960 E4                                  | 76QF1680(1)30(2)      | R76QF1680(1)30(2)  |
| 1000 | 600 | 0.0082                 | 4.0              | 10.0   | 18.0   | 15.0             | 3300         | 660 E4                                  | 76QH1820(1)40(2)      | R76QH1820(1)40(2)  |
| 1000 | 600 | 0.0082                 | 5.0              | 11.0   | 18.0   | 15.0             | 3300         | 660 E4                                  | 76QH1820(1)00(2)      | R76QH1820(1)00(2)  |
| 1000 | 600 | 0.010                  | 4.0              | 10.0   | 18.0   | 15.0             | 3300         | 660 E4                                  | 76QI2100(1)40(2)      | R76QI2100(1)40(2)  |
| 1000 | 600 | 0.010                  | 5.0              | 11.0   | 18.0   | 15.0             | 3300         | 660 E4                                  | 76QI2100(1)30(2)      | R76QI2100(1)30(2)  |
| 1000 | 600 | 0.012                  | 5.0              | 11.0   | 18.0   | 15.0             | 3300         | 660 E4                                  | 76QI2120(1)30(2)      | R76QI2120(1)30(2)  |
| 1000 | 600 | 0.015                  | 5.0              | 11.0   | 18.0   | 15.0             | 3300         | 660 E4                                  | 76QI2150(1)40(2)      | R76QI2150(1)40(2)  |
| 1000 | 600 | 0.018                  | 5.0              | 11.0   | 18.0   | 15.0             | 3300         | 660 E4                                  | 76QI2180(1)40(2)      | R76QI2180(1)40(2)  |
| 1000 | 600 | 0.022                  | 6.0              | 12.0   | 18.0   | 15.0             | 3300         | 660 E4                                  | 76QI2220(1)40(2)      | R76QI2220(1)40(2)  |
| 1000 | 600 | 0.022                  | 9.0              | 12.5   | 18.0   | 15.0             | 3300         | 660 E4                                  | 76QI2220(1)70(2)      | R76QI2220(1)70(2)  |
| 1000 | 600 | 0.027                  | 7.5              | 13.5   | 18.0   | 15.0             | 3300         | 660 E4                                  | 76QI2270(1)40(2)      | R76QI2270(1)40(2)  |
| 1000 | 600 | 0.027                  | 9.0              | 12.5   | 18.0   | 15.0             | 3300         | 660 E4                                  | 76QI2270(1)70(2)      | R76QI2270(1)70(2)  |
| 1000 | 600 | 0.033                  | 7.5              | 13.5   | 18.0   | 15.0             | 3300         | 660 E4                                  | 76QI2330(1)40(2)      | R76QI2330(1)40(2)  |
| 1000 | 600 | 0.033                  | 13.0             | 12.0   | 18.0   | 15.0             | 3300         | 660 E4                                  | 76QI2330(1)70(2)      | R76QI2330(1)70(2)  |
| 1000 | 600 | 0.039                  | 8.5              | 14.5   | 18.0   | 15.0             | 3300         | 660 E4                                  | 76QI2390(1)40(2)      | R76QI2390(1)40(2)  |
| 1000 | 600 | 0.047                  | 8.5              | 14.5   | 18.0   | 15.0             | 3300         | 660 E4                                  | 76QI2470(1)40(2)      | R76QI2470(1)40(2)  |
| 1000 | 600 | 0.027                  | 6.0              | 15.0   | 26.5   | 22.5             | 2100         | 420 E4                                  | 76QN2270(1)00(2)      | R76QN2270(1)00(2)  |
| 1000 | 600 | 0.033                  | 6.0              | 15.0   | 26.5   | 22.5             | 2100         | 420 E4                                  | 76QN2330(1)30(2)      | R76QN2330(1)30(2)  |
| 1000 | 600 | 0.039                  | 6.0              | 15.0   | 26.5   | 22.5             | 2100         | 420 E4                                  | 76QN2390(1)30(2)      | R76QN2390(1)30(2)  |
| 1000 | 600 | 0.047                  | 7.0              | 16.0   | 26.5   | 22.5             | 2100         | 420 E4                                  | 76QN2470(1)30(2)      | R76QN2470(1)30(2)  |
| 1000 | 600 | 0.056                  | 7.0              | 16.0   | 26.5   | 22.5             | 2100         | 420 E4                                  | 76QN2560(1)30(2)      | R76QN2560(1)30(2)  |
| 1000 | 600 | 0.068                  | 8.5              | 17.0   | 26.5   | 22.5             | 2100         | 420 E4                                  | 76QN2680(1)30(2)      | R76QN2680(1)30(2)  |
| 1000 | 600 | 0.082                  | 10.0             | 18.5   | 26.5   | 22.5             | 2100         | 420 E4                                  | 76QN2820(1)30(2)      | R76QN2820(1)30(2)  |
| 1000 | 600 | 0.10                   | 10.0             | 18.5   | 26.5   | 22.5             | 2100         | 420 E4                                  | 76QN3100(1)30(2)      | R76QN3100(1)30(2)  |
| 1000 | 600 | 0.12                   | 11.0             | 20.0   | 26.5   | 22.5             | 2100         | 420 E4                                  | 76QN3120(1)30(2)      | R76QN3120(1)30(2)  |
| 1000 | 600 | 0.15                   | 13.0             | 22.0   | 26.5   | 22.5             | 2100         | 420 E4                                  | 76QN3150(1)30(2)      | R76QN3150(1)30(2)  |
| 1000 | 600 | 0.10                   | 9.0              | 17.0   | 32.0   | 27.5             | 1000         | 200 E4                                  | 76QR3100(1)40(2)      | R76QR3100(1)40(2)  |
| 1000 | 600 | 0.12                   | 9.0              | 17.0   | 32.0   | 27.5             | 1000         | 200 E4                                  | 76QR3120(1)40(2)      | R76QR3120(1)40(2)  |
| 1000 | 600 | 0.15                   | 11.0             | 20.0   | 32.0   | 27.5             | 1000         | 200 E4                                  | 76QR3150(1)30(2)      | R76QR3150(1)30(2)  |
| 1000 | 600 | 0.18                   | 13.0             | 22.0   | 32.0   | 27.5             | 1000         | 200 E4                                  | 76QR3180(1)30(2)      | R76QR3180(1)30(2)  |
| 1000 | 600 | 0.22                   | 13.0             | 22.0   | 32.0   | 27.5             | 1000         | 200 E4                                  | 76QR3220(1)30(2)      | R76QR3220(1)30(2)  |
| 1000 | 600 | 0.27                   | 13.0             | 25.0   | 32.0   | 27.5             | 1000         | 200 E4                                  | 76QR3270(1)40(2)      | R76QR3270(1)40(2)  |
| 1000 | 600 | 0.33                   | 14.0             | 28.0   | 32.0   | 27.5             | 1000         | 200 E4                                  | 76QR3330(1)30(2)      | R76QR3330(1)30(2)  |
| 1000 | 600 | 0.39                   | 18.0             | 33.0   | 32.0   | 27.5             | 1000         | 200 E4                                  | 76QR3390(1)30(2)      | R76QR3390(1)30(2)  |
| 1000 | 600 | 0.47                   | 18.0             | 33.0   | 32.0   | 27.5             | 1000         | 200 E4                                  | 76QR3470(1)30(2)      | R76QR3470(1)30(2)  |
| 1000 | 600 | 0.56                   | 22.0             | 37.0   | 32.0   | 27.5             | 1000         | 200 E4                                  | 76QR3560(1)30(2)      | R76QR3560(1)30(2)  |
| 1000 | 600 | 0.68                   | 22.0             | 37.0   | 32.0   | 27.5             | 1000         | 200 E4                                  | 76QR3680(1)30(2)      | R76QR3680(1)30(2)  |
| 1000 | 600 | 0.18                   | 11.0             | 22.0   | 41.5   | 37.5             | 500          | 100 E4                                  | 76QW3180(1)30(2)      | R76QW3180(1)30(2)  |
| 1000 | 600 | 0.22                   | 11.0             | 22.0   | 41.5   | 37.5             | 500          | 100 E4                                  | 76QW3220(1)30(2)      | R76QW3220(1)30(2)  |
| 1000 | 600 | 0.27                   | 13.0             | 24.0   | 41.5   | 37.5             | 500          | 100 E4                                  | 76QW3270(1)30(2)      | R76QW3270(1)30(2)  |
| 1000 | 600 | 0.33                   | 13.0             | 24.0   | 41.5   | 37.5             | 500          | 100 E4                                  | 76QW3330(1)30(2)      | R76QW3330(1)30(2)  |
| 1000 | 600 | 0.39                   | 16.0             | 28.5   | 41.5   | 37.5             | 500          | 100 E4                                  | 76QW3390(1)30(2)      | R76QW3390(1)30(2)  |
| 1000 | 600 | 0.47                   | 16.0             | 28.5   | 41.5   | 37.5             | 500          | 100 E4                                  | 76QW3470(1)30(2)      | R76QW3470(1)30(2)  |
| 1000 | 600 | 0.56                   | 16.0             | 28.5   | 41.5   | 37.5             | 500          | 100 E4                                  | 76QW3560(1)30(2)      | R76QW3560(1)30(2)  |
| 1000 | 600 | 0.68                   | 19.0             | 32.0   | 41.5   | 37.5             | 500          | 100 E4                                  | 76QW3680(1)30(2)      | R76QW3680(1)30(2)  |
| 1000 | 600 | 0.82                   | 20.0             | 40.0   | 41.5   | 37.5             | 500          | 100 E4                                  | 76QW3820(1)30(2)      | R76QW3820(1)30(2)  |
| 1000 | 600 | 1.0                    | 20.0             | 40.0   | 41.5   | 37.5             | 500          | 100 E4                                  | 76QW4100(1)30(2)      | R76QW4100(1)30(2)  |
| 1000 | 600 | 1.2                    | 24.0             | 44.0   | 41.5   | 37.5             | 500          | 100 E4                                  | 76QW4120(1)30(2)      | R76QW4120(1)30(2)  |
| VDC  | VAC | Capacitance Value (μF) | B (mm)           | H (mm) | L (mm) | Lead Spacing (p) | dV/dt (V/μs) | Max K <sub>0</sub> (V <sup>2</sup> /μs) | New KEMET Part Number | Legacy Part Number |

(1) Insert lead and packaging code. See Ordering Options Table for available options.

(2) H = ±2.5% (for C ≥ 0.001 μF only), J = ±5%, K = ±10%.

Table 1 – Ratings &amp; Part Number Reference cont'd

| VDC  | VAC | Capacitance Value (μF) | Dimensions in mm |        |        | Lead Spacing (p) | dV/dt (V/μs) | Max K <sub>0</sub> (V <sup>2</sup> /μs) | New KEMET Part Number | Legacy Part Number |
|------|-----|------------------------|------------------|--------|--------|------------------|--------------|-----------------------------------------|-----------------------|--------------------|
|      |     |                        | B                | H      | L      |                  |              |                                         |                       |                    |
| 1000 | 600 | 1.5                    | 24.0             | 44.0   | 41.5   | 37.5             | 500          | 100 E4                                  | 76QW4150(1)30(2)      | R76QW4150(1)30(2)  |
| 1000 | 600 | 1.8                    | 30.0             | 45.0   | 41.5   | 37.5             | 500          | 100 E4                                  | 76QW4180(1)30(2)      | R76QW4180(1)30(2)  |
| 1000 | 600 | 2.2                    | 30.0             | 45.0   | 41.5   | 37.5             | 500          | 100 E4                                  | 76QW4220(1)30(2)      | R76QW4220(1)30(2)  |
| 1600 | 650 | 0.0033                 | 4.0              | 10.0   | 18.0   | 15.0             | 6000         | 1900 E4                                 | 76T11330(1)40(2)      | R76T11330(1)40(2)  |
| 1600 | 650 | 0.0033                 | 5.0              | 11.0   | 18.0   | 15.0             | 6000         | 1900 E4                                 | 76T11330(1)30(2)      | R76T11330(1)30(2)  |
| 1600 | 650 | 0.0039                 | 4.0              | 10.0   | 18.0   | 15.0             | 6000         | 1900 E4                                 | 76T11390(1)40(2)      | R76T11390(1)40(2)  |
| 1600 | 650 | 0.0039                 | 5.0              | 11.0   | 18.0   | 15.0             | 6000         | 1900 E4                                 | 76T11390(1)30(2)      | R76T11390(1)30(2)  |
| 1600 | 650 | 0.0047                 | 4.0              | 10.0   | 18.0   | 15.0             | 6000         | 1900 E4                                 | 76T11470(1)40(2)      | R76T11470(1)40(2)  |
| 1600 | 650 | 0.0047                 | 5.0              | 11.0   | 18.0   | 15.0             | 6000         | 1900 E4                                 | 76T11470(1)30(2)      | R76T11470(1)30(2)  |
| 1600 | 650 | 0.0056                 | 4.0              | 10.0   | 18.0   | 15.0             | 6000         | 1900 E4                                 | 76T11560(1)40(2)      | R76T11560(1)40(2)  |
| 1600 | 650 | 0.0056                 | 5.0              | 11.0   | 18.0   | 15.0             | 6000         | 1900 E4                                 | 76T11560(1)30(2)      | R76T11560(1)30(2)  |
| 1600 | 650 | 0.0068                 | 5.0              | 11.0   | 18.0   | 15.0             | 6000         | 1900 E4                                 | 76T11680(1)30(2)      | R76T11680(1)30(2)  |
| 1600 | 650 | 0.0082                 | 5.0              | 11.0   | 18.0   | 15.0             | 6000         | 1900 E4                                 | 76T11820(1)40(2)      | R76T11820(1)40(2)  |
| 1600 | 650 | 0.010                  | 5.0              | 11.0   | 18.0   | 15.0             | 6000         | 1900 E4                                 | 76T12100(1)40(2)      | R76T12100(1)40(2)  |
| 1600 | 650 | 0.012                  | 6.0              | 12.0   | 18.0   | 15.0             | 6000         | 1900 E4                                 | 76T12120(1)40(2)      | R76T12120(1)40(2)  |
| 1600 | 650 | 0.015                  | 6.0              | 12.0   | 18.0   | 15.0             | 6000         | 1900 E4                                 | 76T12150(1)40(2)      | R76T12150(1)40(2)  |
| 1600 | 650 | 0.018                  | 7.5              | 13.5   | 18.0   | 15.0             | 6000         | 1900 E4                                 | 76T12180(1)40(2)      | R76T12180(1)40(2)  |
| 1600 | 650 | 0.018                  | 9.0              | 12.5   | 18.0   | 15.0             | 6000         | 1900 E4                                 | 76T12180(1)70(2)      | R76T12180(1)70(2)  |
| 1600 | 650 | 0.022                  | 7.5              | 13.5   | 18.0   | 15.0             | 6000         | 1900 E4                                 | 76T12220(1)40(2)      | R76T12220(1)40(2)  |
| 1600 | 650 | 0.022                  | 13.0             | 12.0   | 18.0   | 15.0             | 6000         | 1900 E4                                 | 76T12220(1)70(2)      | R76T12220(1)70(2)  |
| 1600 | 650 | 0.027                  | 8.5              | 14.5   | 18.0   | 15.0             | 6000         | 1900 E4                                 | 76T12270(1)40(2)      | R76T12270(1)40(2)  |
| 1600 | 650 | 0.033                  | 8.5              | 14.5   | 18.0   | 15.0             | 6000         | 1900 E4                                 | 76T12330(1)40(2)      | R76T12330(1)40(2)  |
| 1600 | 650 | 0.015                  | 6.0              | 15.0   | 26.5   | 22.5             | 3000         | 960 E4                                  | 76TN2150(1)30(2)      | R76TN2150(1)30(2)  |
| 1600 | 650 | 0.018                  | 6.0              | 15.0   | 26.5   | 22.5             | 3000         | 960 E4                                  | 76TN2180(1)30(2)      | R76TN2180(1)30(2)  |
| 1600 | 650 | 0.022                  | 6.0              | 15.0   | 26.5   | 22.5             | 3000         | 960 E4                                  | 76TN2220(1)30(2)      | R76TN2220(1)30(2)  |
| 1600 | 650 | 0.027                  | 6.0              | 15.0   | 26.5   | 22.5             | 3000         | 960 E4                                  | 76TN2270(1)30(2)      | R76TN2270(1)30(2)  |
| 1600 | 650 | 0.033                  | 6.0              | 15.0   | 26.5   | 22.5             | 3000         | 960 E4                                  | 76TN2330(1)40(2)      | R76TN2330(1)40(2)  |
| 1600 | 650 | 0.039                  | 7.0              | 16.0   | 26.5   | 22.5             | 3000         | 960 E4                                  | 76TN2390(1)40(2)      | R76TN2390(1)40(2)  |
| 1600 | 650 | 0.047                  | 7.0              | 16.0   | 26.5   | 22.5             | 3000         | 960 E4                                  | 76TN2470(1)40(2)      | R76TN2470(1)40(2)  |
| 1600 | 650 | 0.056                  | 8.5              | 17.0   | 26.5   | 22.5             | 3000         | 960 E4                                  | 76TN2560(1)40(2)      | R76TN2560(1)40(2)  |
| 1600 | 650 | 0.068                  | 10.0             | 18.5   | 26.5   | 22.5             | 3000         | 960 E4                                  | 76TN2680(1)40(2)      | R76TN2680(1)40(2)  |
| 1600 | 650 | 0.082                  | 10.0             | 18.5   | 26.5   | 22.5             | 3000         | 960 E4                                  | 76TN2820(1)40(2)      | R76TN2820(1)40(2)  |
| 1600 | 650 | 0.10                   | 11.0             | 20.0   | 26.5   | 22.5             | 3000         | 960 E4                                  | 76TN3100(1)40(2)      | R76TN3100(1)40(2)  |
| 1600 | 650 | 0.039                  | 9.0              | 17.0   | 32.0   | 27.5             | 2000         | 640 E4                                  | 76TR2390(1)30(2)      | R76TR2390(1)30(2)  |
| 1600 | 650 | 0.047                  | 9.0              | 17.0   | 32.0   | 27.5             | 2000         | 640 E4                                  | 76TR2470(1)30(2)      | R76TR2470(1)30(2)  |
| 1600 | 650 | 0.056                  | 9.0              | 17.0   | 32.0   | 27.5             | 2000         | 640 E4                                  | 76TR2560(1)30(2)      | R76TR2560(1)30(2)  |
| 1600 | 650 | 0.068                  | 9.0              | 17.0   | 32.0   | 27.5             | 2000         | 640 E4                                  | 76TR2680(1)30(2)      | R76TR2680(1)30(2)  |
| 1600 | 650 | 0.082                  | 11.0             | 20.0   | 32.0   | 27.5             | 2000         | 640 E4                                  | 76TR2820(1)30(2)      | R76TR2820(1)30(2)  |
| 1600 | 650 | 0.10                   | 11.0             | 20.0   | 32.0   | 27.5             | 2000         | 640 E4                                  | 76TR3100(1)30(2)      | R76TR3100(1)30(2)  |
| 1600 | 650 | 0.12                   | 13.0             | 22.0   | 32.0   | 27.5             | 2000         | 640 E4                                  | 76TR3120(1)30(2)      | R76TR3120(1)30(2)  |
| 1600 | 650 | 0.15                   | 13.0             | 25.0   | 32.0   | 27.5             | 2000         | 640 E4                                  | 76TR3150(1)40(2)      | R76TR3150(1)40(2)  |
| 1600 | 650 | 0.18                   | 14.0             | 28.0   | 32.0   | 27.5             | 2000         | 640 E4                                  | 76TR3180(1)40(2)      | R76TR3180(1)40(2)  |
| 1600 | 650 | 0.22                   | 18.0             | 33.0   | 32.0   | 27.5             | 2000         | 640 E4                                  | 76TR3220(1)30(2)      | R76TR3220(1)30(2)  |
| 1600 | 650 | 0.27                   | 18.0             | 33.0   | 32.0   | 27.5             | 2000         | 640 E4                                  | 76TR3270(1)30(2)      | R76TR3270(1)30(2)  |
| 1600 | 650 | 0.33                   | 18.0             | 33.0   | 32.0   | 27.5             | 2000         | 640 E4                                  | 76TR3330(1)30(2)      | R76TR3330(1)30(2)  |
| 1600 | 650 | 0.39                   | 22.0             | 37.0   | 32.0   | 27.5             | 2000         | 640 E4                                  | 76TR3390(1)30(2)      | R76TR3390(1)30(2)  |
| 1600 | 650 | 0.47                   | 22.0             | 37.0   | 32.0   | 27.5             | 2000         | 640 E4                                  | 76TR3470(1)30(2)      | R76TR3470(1)30(2)  |
| 1600 | 650 | 0.082                  | 11.0             | 22.0   | 41.5   | 37.5             | 1200         | 384 E4                                  | 76TW2820(1)30(2)      | R76TW2820(1)30(2)  |
| 1600 | 650 | 0.10                   | 11.0             | 22.0   | 41.5   | 37.5             | 1200         | 384 E4                                  | 76TW3100(1)30(2)      | R76TW3100(1)30(2)  |
| 1600 | 650 | 0.12                   | 11.0             | 22.0   | 41.5   | 37.5             | 1200         | 384 E4                                  | 76TW3120(1)30(2)      | R76TW3120(1)30(2)  |
| 1600 | 650 | 0.15                   | 11.0             | 22.0   | 41.5   | 37.5             | 1200         | 384 E4                                  | 76TW3150(1)30(2)      | R76TW3150(1)30(2)  |
| 1600 | 650 | 0.18                   | 13.0             | 24.0   | 41.5   | 37.5             | 1200         | 384 E4                                  | 76TW3180(1)30(2)      | R76TW3180(1)30(2)  |
| 1600 | 650 | 0.22                   | 13.0             | 24.0   | 41.5   | 37.5             | 1200         | 384 E4                                  | 76TW3220(1)30(2)      | R76TW3220(1)30(2)  |
| 1600 | 650 | 0.27                   | 13.0             | 24.0   | 41.5   | 37.5             | 1200         | 384 E4                                  | 76TW3270(1)30(2)      | R76TW3270(1)30(2)  |
| 1600 | 650 | 0.33                   | 16.0             | 28.5   | 41.5   | 37.5             | 1200         | 384 E4                                  | 76TW3330(1)30(2)      | R76TW3330(1)30(2)  |
| 1600 | 650 | 0.39                   | 16.0             | 28.5   | 41.5   | 37.5             | 1200         | 384 E4                                  | 76TW3390(1)30(2)      | R76TW3390(1)30(2)  |
| 1600 | 650 | 0.47                   | 19.0             | 32.0   | 41.5   | 37.5             | 1200         | 384 E4                                  | 76TW3470(1)30(2)      | R76TW3470(1)30(2)  |
| 1600 | 650 | 0.56                   | 20.0             | 40.0   | 41.5   | 37.5             | 1200         | 384 E4                                  | 76TW3560(1)30(2)      | R76TW3560(1)30(2)  |
| 1600 | 650 | 0.68                   | 20.0             | 40.0   | 41.5   | 37.5             | 1200         | 384 E4                                  | 76TW3680(1)30(2)      | R76TW3680(1)30(2)  |
| 1600 | 650 | 0.82                   | 24.0             | 44.0   | 41.5   | 37.5             | 1200         | 384 E4                                  | 76TW3820(1)30(2)      | R76TW3820(1)30(2)  |
| VDC  | VAC | Capacitance Value (μF) | B (mm)           | H (mm) | L (mm) | Lead Spacing (p) | dV/dt (V/μs) | Max K <sub>0</sub> (V <sup>2</sup> /μs) | New KEMET Part Number | Legacy Part Number |

(1) Insert lead and packaging code. See Ordering Options Table for available options.

(2) H = ±2.5% (for C ≥ 0.001 μF only), J = ±5%, K = ±10%.

Table 1 – Ratings &amp; Part Number Reference cont'd

| VDC  | VAC | Capacitance Value (μF) | Dimensions in mm |        |        | Lead Spacing (p) | dV/dt (V/μs) | Max K <sub>0</sub> (V <sup>2</sup> /μs) | New KEMET Part Number | Legacy Part Number |
|------|-----|------------------------|------------------|--------|--------|------------------|--------------|-----------------------------------------|-----------------------|--------------------|
|      |     |                        | B                | H      | L      |                  |              |                                         |                       |                    |
| 1600 | 650 | 1.0                    | 24.0             | 44.0   | 41.5   | 37.5             | 1200         | 384 E4                                  | 76TW4100(1)30(2)      | R76TW4100(1)30(2)  |
| 1600 | 650 | 1.2                    | 30.0             | 45.0   | 41.5   | 37.5             | 1200         | 384 E4                                  | 76TW4120(1)30(2)      | R76TW4120(1)30(2)  |
| 2000 | 700 | 0.0001                 | 4.0              | 10.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI0100(1)40(2)      | R76UI0100(1)40(2)  |
| 2000 | 700 | 0.00012                | 4.0              | 10.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI0120(1)40(2)      | R76UI0120(1)40(2)  |
| 2000 | 700 | 0.00015                | 4.0              | 10.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI0150(1)40(2)      | R76UI0150(1)40(2)  |
| 2000 | 700 | 0.00018                | 4.0              | 10.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI0180(1)40(2)      | R76UI0180(1)40(2)  |
| 2000 | 700 | 0.00022                | 4.0              | 10.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI0220(1)40(2)      | R76UI0220(1)40(2)  |
| 2000 | 700 | 0.00022                | 5.0              | 11.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI0220(1)00(2)      | R76UI0220(1)00(2)  |
| 2000 | 700 | 0.00027                | 4.0              | 10.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI0270(1)40(2)      | R76UI0270(1)40(2)  |
| 2000 | 700 | 0.00027                | 5.0              | 11.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI0270(1)00(2)      | R76UI0270(1)00(2)  |
| 2000 | 700 | 0.00033                | 4.0              | 10.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI0330(1)40(2)      | R76UI0330(1)40(2)  |
| 2000 | 700 | 0.00033                | 5.0              | 11.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI0330(1)00(2)      | R76UI0330(1)00(2)  |
| 2000 | 700 | 0.00039                | 4.0              | 10.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI0390(1)40(2)      | R76UI0390(1)40(2)  |
| 2000 | 700 | 0.00039                | 5.0              | 11.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI0390(1)00(2)      | R76UI0390(1)00(2)  |
| 2000 | 700 | 0.00047                | 4.0              | 10.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI0470(1)40(2)      | R76UI0470(1)40(2)  |
| 2000 | 700 | 0.00047                | 5.0              | 11.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI0470(1)00(2)      | R76UI0470(1)00(2)  |
| 2000 | 700 | 0.00056                | 4.0              | 10.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI0560(1)40(2)      | R76UI0560(1)40(2)  |
| 2000 | 700 | 0.00056                | 5.0              | 11.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI0560(1)00(2)      | R76UI0560(1)00(2)  |
| 2000 | 700 | 0.00068                | 4.0              | 10.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI0680(1)40(2)      | R76UI0680(1)40(2)  |
| 2000 | 700 | 0.00068                | 5.0              | 11.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI0680(1)00(2)      | R76UI0680(1)00(2)  |
| 2000 | 700 | 0.00082                | 4.0              | 10.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI0820(1)40(2)      | R76UI0820(1)40(2)  |
| 2000 | 700 | 0.00082                | 5.0              | 11.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI0820(1)00(2)      | R76UI0820(1)00(2)  |
| 2000 | 700 | 0.001                  | 4.0              | 10.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI1100(1)40(2)      | R76UI1100(1)40(2)  |
| 2000 | 700 | 0.001                  | 5.0              | 11.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI1100(1)30(2)      | R76UI1100(1)30(2)  |
| 2000 | 700 | 0.0012                 | 4.0              | 10.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI1120(1)40(2)      | R76UI1120(1)40(2)  |
| 2000 | 700 | 0.0012                 | 5.0              | 11.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI1120(1)30(2)      | R76UI1120(1)30(2)  |
| 2000 | 700 | 0.0015                 | 4.0              | 10.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI1150(1)40(2)      | R76UI1150(1)40(2)  |
| 2000 | 700 | 0.0015                 | 5.0              | 11.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI1150(1)30(2)      | R76UI1150(1)30(2)  |
| 2000 | 700 | 0.0018                 | 4.0              | 10.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI1180(1)40(2)      | R76UI1180(1)40(2)  |
| 2000 | 700 | 0.0018                 | 5.0              | 11.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI1180(1)30(2)      | R76UI1180(1)30(2)  |
| 2000 | 700 | 0.0022                 | 4.0              | 10.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI1220(1)40(2)      | R76UI1220(1)40(2)  |
| 2000 | 700 | 0.0022                 | 5.0              | 11.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI1220(1)30(2)      | R76UI1220(1)30(2)  |
| 2000 | 700 | 0.0027                 | 4.0              | 10.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI1270(1)40(2)      | R76UI1270(1)40(2)  |
| 2000 | 700 | 0.0027                 | 5.0              | 11.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI1270(1)30(2)      | R76UI1270(1)30(2)  |
| 2000 | 700 | 0.0033                 | 5.0              | 11.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI1330(1)40(2)      | R76UI1330(1)40(2)  |
| 2000 | 700 | 0.0039                 | 5.0              | 11.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI1390(1)40(2)      | R76UI1390(1)40(2)  |
| 2000 | 700 | 0.0047                 | 5.0              | 11.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI1470(1)40(2)      | R76UI1470(1)40(2)  |
| 2000 | 700 | 0.0056                 | 6.0              | 12.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI1560(1)40(2)      | R76UI1560(1)40(2)  |
| 2000 | 700 | 0.0068                 | 6.0              | 12.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI1680(1)40(2)      | R76UI1680(1)40(2)  |
| 2000 | 700 | 0.0082                 | 6.0              | 12.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI1820(1)40(2)      | R76UI1820(1)40(2)  |
| 2000 | 700 | 0.010                  | 7.5              | 13.5   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI2100(1)40(2)      | R76UI2100(1)40(2)  |
| 2000 | 700 | 0.010                  | 13.0             | 12.0   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI2100(1)70(2)      | R76UI2100(1)70(2)  |
| 2000 | 700 | 0.012                  | 8.5              | 14.5   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI2120(1)40(2)      | R76UI2120(1)40(2)  |
| 2000 | 700 | 0.015                  | 8.5              | 14.5   | 18.0   | 15.0             | 9500         | 3800 E4                                 | 76UI2150(1)40(2)      | R76UI2150(1)40(2)  |
| 2000 | 700 | 0.001                  | 6.0              | 15.0   | 26.5   | 22.5             | 3500         | 1400 E4                                 | 76UN1100(1)00(2)      | R76UN1100(1)00(2)  |
| 2000 | 700 | 0.0012                 | 6.0              | 15.0   | 26.5   | 22.5             | 3500         | 1400 E4                                 | 76UN1120(1)00(2)      | R76UN1120(1)00(2)  |
| 2000 | 700 | 0.0015                 | 6.0              | 15.0   | 26.5   | 22.5             | 3500         | 1400 E4                                 | 76UN1150(1)00(2)      | R76UN1150(1)00(2)  |
| 2000 | 700 | 0.0018                 | 6.0              | 15.0   | 26.5   | 22.5             | 3500         | 1400 E4                                 | 76UN1180(1)00(2)      | R76UN1180(1)00(2)  |
| 2000 | 700 | 0.0022                 | 6.0              | 15.0   | 26.5   | 22.5             | 3500         | 1400 E4                                 | 76UN1220(1)00(2)      | R76UN1220(1)00(2)  |
| 2000 | 700 | 0.0027                 | 6.0              | 15.0   | 26.5   | 22.5             | 3500         | 1400 E4                                 | 76UN1270(1)00(2)      | R76UN1270(1)00(2)  |
| 2000 | 700 | 0.0033                 | 6.0              | 15.0   | 26.5   | 22.5             | 3500         | 1400 E4                                 | 76UN1330(1)00(2)      | R76UN1330(1)00(2)  |
| 2000 | 700 | 0.0039                 | 6.0              | 15.0   | 26.5   | 22.5             | 3500         | 1400 E4                                 | 76UN1390(1)00(2)      | R76UN1390(1)00(2)  |
| 2000 | 700 | 0.0047                 | 6.0              | 15.0   | 26.5   | 22.5             | 3500         | 1400 E4                                 | 76UN1470(1)00(2)      | R76UN1470(1)00(2)  |
| 2000 | 700 | 0.0056                 | 6.0              | 15.0   | 26.5   | 22.5             | 3500         | 1400 E4                                 | 76UN1560(1)00(2)      | R76UN1560(1)00(2)  |
| 2000 | 700 | 0.0068                 | 6.0              | 15.0   | 26.5   | 22.5             | 3500         | 1400 E4                                 | 76UN1680(1)00(2)      | R76UN1680(1)00(2)  |
| 2000 | 700 | 0.0082                 | 6.0              | 15.0   | 26.5   | 22.5             | 3500         | 1400 E4                                 | 76UN1820(1)30(2)      | R76UN1820(1)30(2)  |
| 2000 | 700 | 0.010                  | 6.0              | 15.0   | 26.5   | 22.5             | 3500         | 1400 E4                                 | 76UN2100(1)30(2)      | R76UN2100(1)30(2)  |
| 2000 | 700 | 0.012                  | 6.0              | 15.0   | 26.5   | 22.5             | 3500         | 1400 E4                                 | 76UN2120(1)30(2)      | R76UN2120(1)30(2)  |
| 2000 | 700 | 0.015                  | 6.0              | 15.0   | 26.5   | 22.5             | 3500         | 1400 E4                                 | 76UN2150(1)40(2)      | R76UN2150(1)40(2)  |
| 2000 | 700 | 0.018                  | 6.0              | 15.0   | 26.5   | 22.5             | 3500         | 1400 E4                                 | 76UN2180(1)40(2)      | R76UN2180(1)40(2)  |
| VDC  | VAC | Capacitance Value (μF) | B (mm)           | H (mm) | L (mm) | Lead Spacing (p) | dV/dt (V/μs) | Max K <sub>0</sub> (V <sup>2</sup> /μs) | New KEMET Part Number | Legacy Part Number |

(1) Insert lead and packaging code. See Ordering Options Table for available options.

(2) H = ±2.5% (for C ≥ 0.001 μF only), J = ±5%, K = ±10%.

Table 1 – Ratings &amp; Part Number Reference cont'd

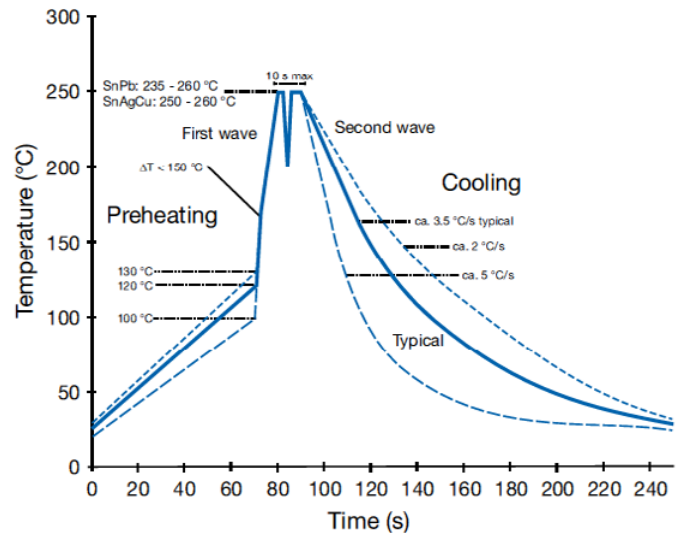
| VDC  | VAC | Capacitance Value (μF) | Dimensions in mm |        |        | Lead Spacing (p) | dV/dt (V/μs) | Max K <sub>0</sub> (V <sup>2</sup> /μs) | New KEMET Part Number | Legacy Part Number |
|------|-----|------------------------|------------------|--------|--------|------------------|--------------|-----------------------------------------|-----------------------|--------------------|
|      |     |                        | B                | H      | L      |                  |              |                                         |                       |                    |
| 2000 | 700 | 0.022                  | 7.0              | 16.0   | 26.5   | 22.5             | 3500         | 1400 E4                                 | 76UN2220(1)40(2)      | R76UN2220(1)40(2)  |
| 2000 | 700 | 0.027                  | 7.0              | 16.0   | 26.5   | 22.5             | 3500         | 1400 E4                                 | 76UN2270(1)40(2)      | R76UN2270(1)40(2)  |
| 2000 | 700 | 0.033                  | 8.5              | 17.0   | 26.5   | 22.5             | 3500         | 1400 E4                                 | 76UN2330(1)40(2)      | R76UN2330(1)40(2)  |
| 2000 | 700 | 0.039                  | 10.0             | 18.5   | 26.5   | 22.5             | 3500         | 1400 E4                                 | 76UN2390(1)40(2)      | R76UN2390(1)40(2)  |
| 2000 | 700 | 0.047                  | 10.0             | 18.5   | 26.5   | 22.5             | 3500         | 1400 E4                                 | 76UN2470(1)40(2)      | R76UN2470(1)40(2)  |
| 2000 | 700 | 0.056                  | 11.0             | 20.0   | 26.5   | 22.5             | 3500         | 1400 E4                                 | 76UN2560(1)40(2)      | R76UN2560(1)40(2)  |
| 2000 | 700 | 0.022                  | 9.0              | 17.0   | 32.0   | 27.5             | 2300         | 920 E4                                  | 76UR2220(1)30(2)      | R76UR2220(1)30(2)  |
| 2000 | 700 | 0.027                  | 9.0              | 17.0   | 32.0   | 27.5             | 2300         | 920 E4                                  | 76UR2270(1)30(2)      | R76UR2270(1)30(2)  |
| 2000 | 700 | 0.033                  | 9.0              | 17.0   | 32.0   | 27.5             | 2300         | 920 E4                                  | 76UR2330(1)30(2)      | R76UR2330(1)30(2)  |
| 2000 | 700 | 0.039                  | 9.0              | 17.0   | 32.0   | 27.5             | 2300         | 920 E4                                  | 76UR2390(1)40(2)      | R76UR2390(1)40(2)  |
| 2000 | 700 | 0.047                  | 11.0             | 20.0   | 32.0   | 27.5             | 2300         | 920 E4                                  | 76UR2470(1)30(2)      | R76UR2470(1)30(2)  |
| 2000 | 700 | 0.056                  | 13.0             | 22.0   | 32.0   | 27.5             | 2300         | 920 E4                                  | 76UR2560(1)30(2)      | R76UR2560(1)30(2)  |
| 2000 | 700 | 0.068                  | 13.0             | 22.0   | 32.0   | 27.5             | 2300         | 920 E4                                  | 76UR2680(1)30(2)      | R76UR2680(1)30(2)  |
| 2000 | 700 | 0.082                  | 13.0             | 25.0   | 32.0   | 27.5             | 2300         | 920 E4                                  | 76UR2820(1)40(2)      | R76UR2820(1)40(2)  |
| 2000 | 700 | 0.10                   | 14.0             | 28.0   | 32.0   | 27.5             | 2300         | 920 E4                                  | 76UR3100(1)30(2)      | R76UR3100(1)30(2)  |
| 2000 | 700 | 0.12                   | 18.0             | 33.0   | 32.0   | 27.5             | 2300         | 920 E4                                  | 76UR3120(1)30(2)      | R76UR3120(1)30(2)  |
| 2000 | 700 | 0.15                   | 18.0             | 33.0   | 32.0   | 27.5             | 2300         | 920 E4                                  | 76UR3150(1)30(2)      | R76UR3150(1)30(2)  |
| 2000 | 700 | 0.18                   | 22.0             | 37.0   | 32.0   | 27.5             | 2300         | 920 E4                                  | 76UR3180(1)30(2)      | R76UR3180(1)30(2)  |
| 2000 | 700 | 0.22                   | 22.0             | 37.0   | 32.0   | 27.5             | 2300         | 920 E4                                  | 76UR3220(1)30(2)      | R76UR3220(1)30(2)  |
| 2000 | 700 | 0.033                  | 11.0             | 22.0   | 41.5   | 37.5             | 1500         | 600 E4                                  | 76UW2330(1)30(2)      | R76UW2330(1)30(2)  |
| 2000 | 700 | 0.039                  | 11.0             | 22.0   | 41.5   | 37.5             | 1500         | 600 E4                                  | 76UW2390(1)30(2)      | R76UW2390(1)30(2)  |
| 2000 | 700 | 0.047                  | 11.0             | 22.0   | 41.5   | 37.5             | 1500         | 600 E4                                  | 76UW2470(1)30(2)      | R76UW2470(1)30(2)  |
| 2000 | 700 | 0.056                  | 11.0             | 22.0   | 41.5   | 37.5             | 1500         | 600 E4                                  | 76UW2560(1)30(2)      | R76UW2560(1)30(2)  |
| 2000 | 700 | 0.068                  | 11.0             | 22.0   | 41.5   | 37.5             | 1500         | 600 E4                                  | 76UW2680(1)30(2)      | R76UW2680(1)30(2)  |
| 2000 | 700 | 0.082                  | 11.0             | 22.0   | 41.5   | 37.5             | 1500         | 600 E4                                  | 76UW2820(1)30(2)      | R76UW2820(1)30(2)  |
| 2000 | 700 | 0.10                   | 13.0             | 24.0   | 41.5   | 37.5             | 1500         | 600 E4                                  | 76UW3100(1)30(2)      | R76UW3100(1)30(2)  |
| 2000 | 700 | 0.12                   | 13.0             | 24.0   | 41.5   | 37.5             | 1500         | 600 E4                                  | 76UW3120(1)30(2)      | R76UW3120(1)30(2)  |
| 2000 | 700 | 0.15                   | 16.0             | 28.5   | 41.5   | 37.5             | 1500         | 600 E4                                  | 76UW3150(1)30(2)      | R76UW3150(1)30(2)  |
| 2000 | 700 | 0.18                   | 16.0             | 28.5   | 41.5   | 37.5             | 1500         | 600 E4                                  | 76UW3180(1)30(2)      | R76UW3180(1)30(2)  |
| 2000 | 700 | 0.22                   | 19.0             | 32.0   | 41.5   | 37.5             | 1500         | 600 E4                                  | 76UW3220(1)30(2)      | R76UW3220(1)30(2)  |
| 2000 | 700 | 0.27                   | 20.0             | 40.0   | 41.5   | 37.5             | 1500         | 600 E4                                  | 76UW3270(1)30(2)      | R76UW3270(1)30(2)  |
| 2000 | 700 | 0.33                   | 20.0             | 40.0   | 41.5   | 37.5             | 1500         | 600 E4                                  | 76UW3330(1)30(2)      | R76UW3330(1)30(2)  |
| 2000 | 700 | 0.39                   | 24.0             | 44.0   | 41.5   | 37.5             | 1500         | 600 E4                                  | 76UW3390(1)30(2)      | R76UW3390(1)30(2)  |
| 2000 | 700 | 0.47                   | 24.0             | 44.0   | 41.5   | 37.5             | 1500         | 600 E4                                  | 76UW3470(1)30(2)      | R76UW3470(1)30(2)  |
| 2000 | 700 | 0.56                   | 30.0             | 45.0   | 41.5   | 37.5             | 1500         | 600 E4                                  | 76UW3560(1)30(2)      | R76UW3560(1)30(2)  |
| 2000 | 700 | 0.68                   | 30.0             | 45.0   | 41.5   | 37.5             | 1500         | 600 E4                                  | 76UW3680(1)30(2)      | R76UW3680(1)30(2)  |
| VDC  | VAC | Capacitance Value (μF) | B (mm)           | H (mm) | L (mm) | Lead Spacing (p) | dV/dt (V/μs) | Max K <sub>0</sub> (V <sup>2</sup> /μs) | New KEMET Part Number | Legacy Part Number |

(1) Insert lead and packaging code. See Ordering Options Table for available options.

(2) H = ±2.5% (for C ≥ 0.001 μF only), J = ±5%, K = ±10%.

## Soldering Process

The implementation of the RoHS Directive has required the selection SnAuCu (SAC) alloys or SnCu alloys as primary solder. This has increased the liquidus temperature from that of 183°C for SnPb eutectic alloy to 217°C – 221°C for the new alloys. As a result, the heat stress to components, even in wave soldering, has increased considerably due to higher pre-heat and wave temperatures. Polypropylene capacitors are especially sensitive to heat (melting point of polypropylene is 160°C – 170°C). Wave soldering can be destructive especially for mechanically small polypropylene capacitors and great care must be taken during soldering. The solder profiles from KEMET are highly recommended. You may also refer to the wave soldering curve from IEC Publication 61760–1 Edition 2. Please consult KEMET with any questions.



## Marking

- KEMET's logo
- Series
- Dielectric code (MKP)
- Capacitance
- Capacitance tolerance
- Rated DC voltage
- Manufacturing date code

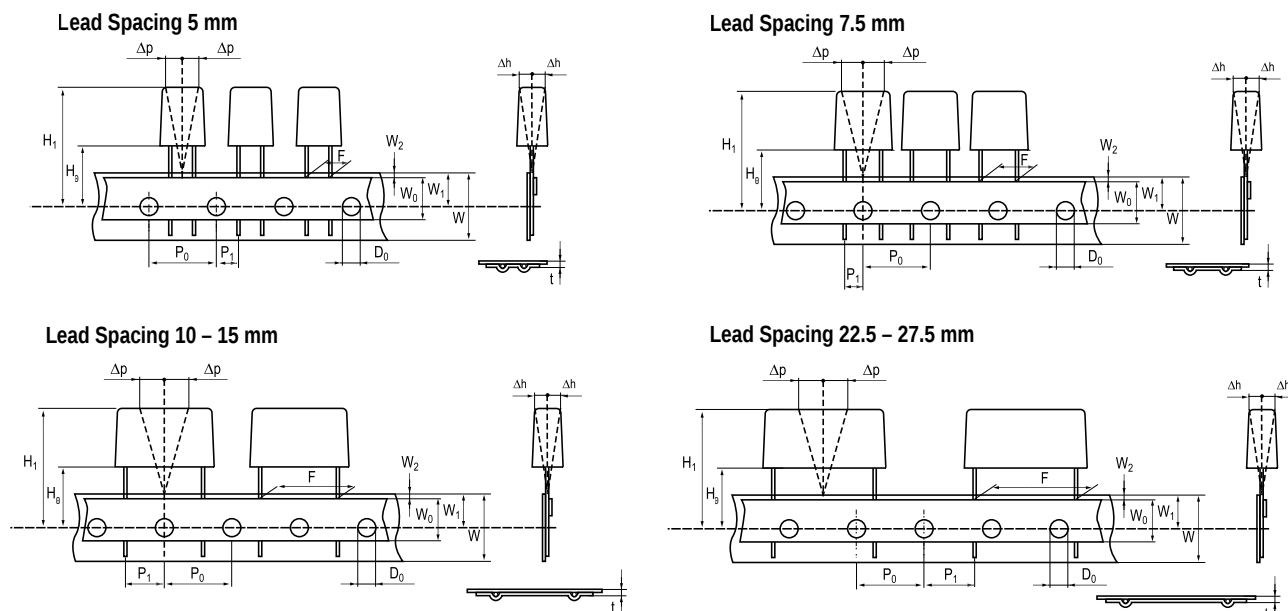
## Packaging Quantities

| Lead Spacing | Thickness (mm) | Height (mm) | Length (mm) | Bulk Short Leads | Bulk Long Leads | Standard Reel<br>ø 355 mm | Large Reel<br>ø 500 mm | Ammo | Pizza |
|--------------|----------------|-------------|-------------|------------------|-----------------|---------------------------|------------------------|------|-------|
| 7.5          | 3              | 8           | 10          | 1500             | 1750            | 2100                      |                        | 2800 |       |
|              | 4              | 9           | 10          | 2000             | 1500            | 1500                      |                        | 2100 |       |
|              | 5              | 10.5        | 10          | 1500             | 1000            | 1200                      |                        | 1600 |       |
|              | 6              | 12          | 10          | 1000             | 800             | 1000                      |                        | 1350 |       |
| 10           | 4              | 9           | 13          | 2000             | 2200            | 750                       | 1500                   | 1000 |       |
|              | 5              | 11          | 13          | 1300             | 2000            | 600                       | 1250                   | 800  |       |
|              | 6              | 12          | 13          | 1000             | 1800            | 500                       | 1000                   | 680  |       |

## Packaging Quantities cont'd

| Lead Spacing | Thickness (mm) | Height (mm) | Length (mm) | Bulk Short Leads | Bulk Long Leads | Standard Reel<br>ø 355 mm | Large Reel<br>ø 500 mm | Ammo | Pizza |
|--------------|----------------|-------------|-------------|------------------|-----------------|---------------------------|------------------------|------|-------|
| 15           | 4              | 10          | 18          | 2500             | 1500            | 750                       | 1500                   | 1000 | 1411  |
|              | 5              | 11          | 18          | 1000             | 1250            | 600                       | 1250                   | 800  | 1139  |
|              | 6              | 12          | 18          | 1750             | 1000            | 500                       | 1000                   | 680  | 935   |
|              | 7.5            | 13.5        | 18          | 1000             | 800             | 350                       | 800                    | 500  | 748   |
|              | 6              | 17.5        | 18          | 1000             | 800             | 500                       | 1000                   | 680  | 935   |
|              | 7.5            | 14.5        | 18          | 1000             | 750             | 350                       | 800                    | 500  | 748   |
|              | 8.5            | 14.5        | 18          | 1000             | 650             | 300                       | 700                    | 440  | 663   |
|              | 9              | 12.5        | 18          | 1000             | 700             | 270                       | 650                    | 410  | 629   |
|              | 7.5            | 18.5        | 18          | 900              | 600             | 350                       | 800                    | 500  | 748   |
|              | 10             | 16          | 18          | 750              | 550             | 300                       | 600                    | 380  | 561   |
|              | 13             | 12          | 18          | 750              | 520             | 200                       | 480                    | 280  | 425   |
|              | 11             | 19          | 18          | 450              | 400             | 250                       | 500                    | 340  | 510   |
| 22.5         | 6              | 15          | 26.5        | 1404             | 702             | 300                       | 700                    | 464  | 660   |
|              | 7              | 16          | 26.5        | 1188             | 594             | 250                       | 550                    | 380  | 564   |
|              | 8.5            | 17          | 26.5        | 972              | 486             | 250                       | 450                    | 280  | 468   |
|              | 10             | 18.5        | 26.5        | 810              | 405             | 160                       | 350                    | 235  | 396   |
|              | 11             | 20          | 26.5        | 630              | 378             | 190                       | 350                    | 217  | 360   |
|              | 13             | 22          | 26.5        | 540              | 324             | 150                       | 300                    | 200  | 300   |
| 27.5         | 9              | 17          | 32          | 816              | 408             |                           | 450                    |      |       |
|              | 10             | 20          | 32          | 600              | 360             |                           | 350                    |      |       |
|              | 11             | 20          | 32          | 560              | 336             |                           | 350                    |      |       |
|              | 13             | 22          | 32          | 480              | 288             |                           | 300                    |      |       |
|              | 13             | 25          | 32          | 480              | 288             |                           |                        |      |       |
|              | 14             | 28          | 32          | 352              | 176             |                           |                        |      |       |
|              | 15             | 24.5        | 32          | 400              | 240             |                           |                        |      |       |
|              | 18             | 33          | 32          | 256              | 128             |                           |                        |      |       |
|              | 22             | 37          | 32          | 168              | 112             |                           |                        |      |       |

## Lead Taping & Packaging (IEC 60286-2)



## Taping Specification

| Dimensions in mm          |                       |                               |                        |                        |                        |                        |                        |                        | Standard IEC 60286-2    |
|---------------------------|-----------------------|-------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------------------|
| Lead spacing              | +6/-0.1               | F                             | 5                      | 7.5                    | 10                     | 15                     | 22.5                   | 27.5                   | F                       |
| Carrier tape width        | +1/-0.5               | W                             | 18                     | 18                     | 18                     | 18                     | 18                     | 18                     | 18 <sup>+1/-0.5</sup>   |
| Hold-down tape width      | Minimum               | W <sub>0</sub>                | 6                      | 6                      | 9                      | 10                     | 10                     | 10                     |                         |
| Position of sprocket hole | +/-0.5                | W <sub>1</sub>                | 9                      | 9                      | 9                      | 9                      | 9                      | 9                      | 9 <sup>+0.75/-0.5</sup> |
| Distance between tapes    | Maximum               | W <sub>2</sub>                | 3                      | 3                      | 3                      | 3                      | 3                      | 3                      | 3                       |
| Sprocket hole diameter    | +/-0.2                | D <sub>0</sub>                | 4                      | 4                      | 4                      | 4                      | 4                      | 4                      | 4                       |
| Feed hole lead spacing    | +/-0.2 <sup>(1)</sup> | P <sub>0</sub> <sup>(3)</sup> | 12.7                   | 12.7                   | 12.7                   | 12.7                   | 12.7                   | 12.7                   | 12.7                    |
| Distance lead – feed hole | +/-0.7                | P <sub>1</sub>                | 3.85                   | 3.75                   | 7.7                    | 5.2                    | 7.8                    | 5.3                    | P <sup>1</sup>          |
| Deviation tape – plane    | Maximum               | Δp                            | 1.3                    | 1.3                    | 1.3                    | 1.3                    | 1.3                    | 1.3                    | 1.3                     |
| Lateral deviation         | +/-2                  | Δh                            | 2                      | 2                      | 2                      | 2                      | 2                      | 2                      | 2                       |
| Total thickness           | +/-0.2                | t                             | 0.7                    | 0.7                    | 0.7                    | 0.7                    | 0.9 <sup>MAX</sup>     | 0.9 <sup>MAX</sup>     | 0.9 <sup>MAX</sup>      |
| Sprocket hole/cap body    | +/-0.5                | H <sub>0</sub> <sup>(2)</sup> | 18.5 <sup>+/-0.5</sup> | 18.5 <sup>+/-0.5</sup> | 18.5 <sup>+/-0.5</sup> | 18.5 <sup>+/-0.5</sup> | 18.5 <sup>+/-0.5</sup> | 18.5 <sup>+/-0.5</sup> | 18 <sup>+2/-0</sup>     |

(1) Maximum cumulative feed hole error, 1 mm per 20 parts.

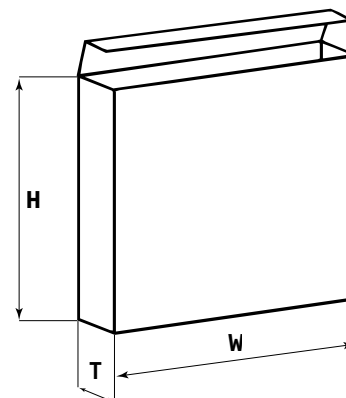
(2) 16.5 mm available on request.

(3) 15 mm available on request (F ≥ 10 mm).

## Lead Taping & Packaging (IEC 60286–2) cont'd

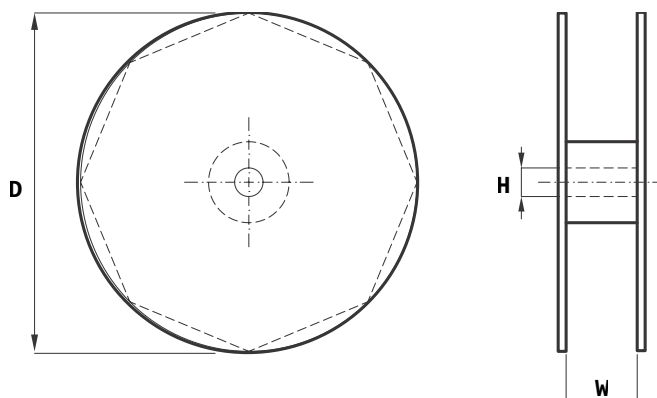
### Ammo Specifications

| Series                 | Dimensions (mm) |     |    |
|------------------------|-----------------|-----|----|
|                        | H               | W   | T  |
| R4x, R4x+R, R7x, RSB   | 360             | 340 | 59 |
| F5A, F5B, F5D          |                 |     |    |
| F6xx, F8xx             |                 |     |    |
| PHExxx, PMExxx, PMRxxx | 330             | 330 | 50 |



### Reel Specifications

| Series                 | Dimensions (mm) |    |          |
|------------------------|-----------------|----|----------|
|                        | D               | H  | W        |
| R4x, R4x+R, R7x, RSB   | 355<br>500      | 30 | 55 (Max) |
| F5A, F5B, F5D          |                 | 25 |          |
| F6xx, F8xx             |                 |    |          |
| PHExxx, PMExxx, PMRxxx | 360<br>500      | 30 | 46 (Max) |



### Manufacturing Date Code (IEC–60062)

| Y = Year, Z = Month |      |           |      |
|---------------------|------|-----------|------|
| Year                | Code | Month     | Code |
| 2000                | M    | January   | 1    |
| 2001                | N    | February  | 2    |
| 2002                | P    | March     | 3    |
| 2003                | R    | April     | 4    |
| 2004                | S    | May       | 5    |
| 2005                | T    | June      | 6    |
| 2006                | U    | July      | 7    |
| 2007                | V    | August    | 8    |
| 2008                | W    | September | 9    |
| 2009                | X    | October   | O    |
| 2010                | A    | November  | N    |
| 2011                | B    | December  | D    |
| 2012                | C    |           |      |
| 2013                | D    |           |      |
| 2014                | E    |           |      |
| 2015                | F    |           |      |
| 2016                | H    |           |      |
| 2017                | J    |           |      |
| 2018                | K    |           |      |
| 2019                | L    |           |      |
| 2020                | M    |           |      |

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Shanghai, China  
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Taipei, Taiwan  
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Bangalore, India  
Tel: 91-806-53-76817

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## Other KEMET Resources

| Tools                          |                                                                             |
|--------------------------------|-----------------------------------------------------------------------------|
| Resource                       | Location                                                                    |
| Configure A Part: CapEdge      | <a href="http://capacitoredge.kemet.com">http://capacitoredge.kemet.com</a> |
| SPICE & FIT Software           | <a href="http://www.kemet.com/spice">http://www.kemet.com/spice</a>         |
| Search Our FAQs: KnowledgeEdge | <a href="http://www.kemet.com/keask">http://www.kemet.com/keask</a>         |
| Electrolytic LifeCalculator    | <a href="http://www.kemet.com:8080/elc">http://www.kemet.com:8080/elc</a>   |

| Product Information                                  |                                                                                           |
|------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Resource                                             | Location                                                                                  |
| Products                                             | <a href="http://www.kemet.com/products">http://www.kemet.com/products</a>                 |
| Technical Resources (Including Soldering Techniques) | <a href="http://www.kemet.com/technicalpapers">http://www.kemet.com/technicalpapers</a>   |
| RoHS Statement                                       | <a href="http://www.kemet.com/rohs">http://www.kemet.com/rohs</a>                         |
| Quality Documents                                    | <a href="http://www.kemet.com/qualitydocuments">http://www.kemet.com/qualitydocuments</a> |

| Product Request         |                                                                       |
|-------------------------|-----------------------------------------------------------------------|
| Resource                | Location                                                              |
| Sample Request          | <a href="http://www.kemet.com/sample">http://www.kemet.com/sample</a> |
| Engineering Kit Request | <a href="http://www.kemet.com/kits">http://www.kemet.com/kits</a>     |

| Contact            |                                                                                     |
|--------------------|-------------------------------------------------------------------------------------|
| Resource           | Location                                                                            |
| Website            | <a href="http://www.kemet.com">www.kemet.com</a>                                    |
| Contact Us         | <a href="http://www.kemet.com/contact">http://www.kemet.com/contact</a>             |
| Investor Relations | <a href="http://www.kemet.com/ir">http://www.kemet.com/ir</a>                       |
| Call Us            | 1-877-MyKEMET                                                                       |
| Twitter            | <a href="http://twitter.com/kemetcapacitors">http://twitter.com/kemetcapacitors</a> |

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