

- **Snap Mount**
- **Large Capacitance**
- **High CV**
- **High Ripple**
- **RoHS Compliant**
- **+105°C Maximum Temperature**



The KMH series capacitors are the standard +105°C , large capacitance, snap-in capacitors from United Chemi-Con. The load life for the KMH series is 2,000 hours at +105°C with the rated ripple current applied. The very high CV values and ripple current capabilities make these capacitors ideal for use in power supply filter circuits. The KMH capacitors are available in 2 or 4-pin snap-in styles and 4 or 5-pin straight terminals. The KMH series is RoHS compliant offering Pb-free construction.

The standard KMH series capacitors are *not* solvent proof. Refer to guidelines and precautions on the website for usage and installation conditions recommended for United Chemi-Con products.

## Summary of Specifications

- PC board 2 or 4-pin snap-in; optional 4 or 5-pin straight terminals.
- Capacitance range: 47 to 220,000µF.
- Voltage range: 6.3 to 450VDC.
- Category temperature range: -40°C to +105°C for 6.3 to 100V; -25°C to +105°C for 160 to 450V.
- Leakage current: 0.02CV(µA) or 3mA, whichever is smaller, after 5 minutes at +20°C.
- Standard capacitance tolerance: ±20%
- Nominal case size (D × L): 22 × 20mm to 40 × 80mm.
- Rated lifetime: 2,000 hours at +105°C with the rated ripple current applied.

## KMH Specifications - Snap Mount

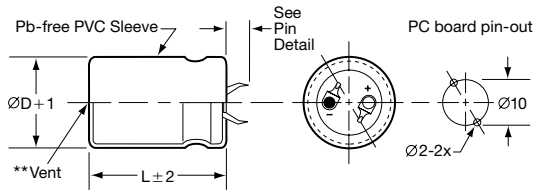
| Item                             | Characteristics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |        |        |         |         |         |         |         |                       |         |                  |      |       |       |      |       |                       |         |       |      |      |      |      |      |         |      |      |      |      |      |      |          |      |      |      |      |      |      |          |      |      |      |      |      |      |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------|--------|---------|---------|---------|---------|---------|-----------------------|---------|------------------|------|-------|-------|------|-------|-----------------------|---------|-------|------|------|------|------|------|---------|------|------|------|------|------|------|----------|------|------|------|------|------|------|----------|------|------|------|------|------|------|
| Category Temperature Range       | – 40 to +105°C for 6.3 to 100VDC; – 25 to +105°C for 160 to 450VDC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |        |        |         |         |         |         |         |                       |         |                  |      |       |       |      |       |                       |         |       |      |      |      |      |      |         |      |      |      |      |      |      |          |      |      |      |      |      |      |          |      |      |      |      |      |      |
| Rated Voltage Range              | 6.3 to 450VDC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |        |        |         |         |         |         |         |                       |         |                  |      |       |       |      |       |                       |         |       |      |      |      |      |      |         |      |      |      |      |      |      |          |      |      |      |      |      |      |          |      |      |      |      |      |      |
| Capacitance Range                | 47 to 220,000μF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |        |        |         |         |         |         |         |                       |         |                  |      |       |       |      |       |                       |         |       |      |      |      |      |      |         |      |      |      |      |      |      |          |      |      |      |      |      |      |          |      |      |      |      |      |      |
| Capacitance Tolerance            | ± 20% (M) at +20°C, 120Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |        |        |         |         |         |         |         |                       |         |                  |      |       |       |      |       |                       |         |       |      |      |      |      |      |         |      |      |      |      |      |      |          |      |      |      |      |      |      |          |      |      |      |      |      |      |
| Leakage Current                  | I = 0.02CV (μA) or 3mA, whichever is smaller, after 5 minutes at +20°C.<br>Where I = Max. leakage current (μA), C = Nominal capacitance (μF) and V = Rated voltage (V)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |        |        |         |         |         |         |         |                       |         |                  |      |       |       |      |       |                       |         |       |      |      |      |      |      |         |      |      |      |      |      |      |          |      |      |      |      |      |      |          |      |      |      |      |      |      |
| Dissipation Factor (Tan δ)       | At +20°C, 120Hz <table><tr><td>Rated Voltage (V)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63-100</td><td>160-250</td><td>315-450</td></tr><tr><td>Tan δ (DF) Max.†</td><td>0.60</td><td>0.50</td><td>0.40</td><td>0.30</td><td>0.25</td><td>0.20</td><td>0.15</td><td>0.10*</td><td>0.15</td></tr></table> <p>*0.15 maximum for 35mm and 40mm diameter or 20mm in length.<br/>† For rated voltages ≤63V, values are not valid for case sizes &gt;35mm in diameter or &gt;50mm in length.</p>                                                                                                                                                                                                                                                          | Rated Voltage (V) | 6.3    | 10     | 16      | 25      | 35      | 50      | 63-100  | 160-250               | 315-450 | Tan δ (DF) Max.† | 0.60 | 0.50  | 0.40  | 0.30 | 0.25  | 0.20                  | 0.15    | 0.10* | 0.15 |      |      |      |      |         |      |      |      |      |      |      |          |      |      |      |      |      |      |          |      |      |      |      |      |      |
| Rated Voltage (V)                | 6.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10                | 16     | 25     | 35      | 50      | 63-100  | 160-250 | 315-450 |                       |         |                  |      |       |       |      |       |                       |         |       |      |      |      |      |      |         |      |      |      |      |      |      |          |      |      |      |      |      |      |          |      |      |      |      |      |      |
| Tan δ (DF) Max.†                 | 0.60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.50              | 0.40   | 0.30   | 0.25    | 0.20    | 0.15    | 0.10*   | 0.15    |                       |         |                  |      |       |       |      |       |                       |         |       |      |      |      |      |      |         |      |      |      |      |      |      |          |      |      |      |      |      |      |          |      |      |      |      |      |      |
| Low Temperature Characteristics  | At 120Hz, impedance (Z) ratio between the – 25°C or – 40°C value and +20°C value shall not exceed the values given below. <table><tr><td>Rated Voltage (V)</td><td>6.3-16</td><td>25</td><td>35</td><td>50, 63</td><td>80, 100</td><td>160-400</td><td>450</td></tr><tr><td>Z (–25°C) / Z (+20°C)</td><td>4</td><td>3</td><td>3</td><td>2</td><td>2</td><td>4</td><td>8</td></tr><tr><td>Z (–40°C) / Z (+20°C)</td><td>15</td><td>10</td><td>8</td><td>6</td><td>5</td><td>—</td><td>—</td></tr></table>                                                                                                                                                                                                                                                                                | Rated Voltage (V) | 6.3-16 | 25     | 35      | 50, 63  | 80, 100 | 160-400 | 450     | Z (–25°C) / Z (+20°C) | 4       | 3                | 3    | 2     | 2     | 4    | 8     | Z (–40°C) / Z (+20°C) | 15      | 10    | 8    | 6    | 5    | —    | —    |         |      |      |      |      |      |      |          |      |      |      |      |      |      |          |      |      |      |      |      |      |
| Rated Voltage (V)                | 6.3-16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 25                | 35     | 50, 63 | 80, 100 | 160-400 | 450     |         |         |                       |         |                  |      |       |       |      |       |                       |         |       |      |      |      |      |      |         |      |      |      |      |      |      |          |      |      |      |      |      |      |          |      |      |      |      |      |      |
| Z (–25°C) / Z (+20°C)            | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3                 | 3      | 2      | 2       | 4       | 8       |         |         |                       |         |                  |      |       |       |      |       |                       |         |       |      |      |      |      |      |         |      |      |      |      |      |      |          |      |      |      |      |      |      |          |      |      |      |      |      |      |
| Z (–40°C) / Z (+20°C)            | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10                | 8      | 6      | 5       | —       | —       |         |         |                       |         |                  |      |       |       |      |       |                       |         |       |      |      |      |      |      |         |      |      |      |      |      |      |          |      |      |      |      |      |      |          |      |      |      |      |      |      |
| Rated Ripple Current Multipliers | Ambient Temperature (°C) <table><tr><td>+45°C</td><td>+60°C</td><td>+70°C</td><td>+85°C</td><td>+105°C</td></tr><tr><td>2.64</td><td>2.23</td><td>2.12</td><td>1.73</td><td>1.00</td></tr></table><br>Frequency (Hz) <table><tr><td>DC Rated Voltage</td><td>50Hz</td><td>120Hz</td><td>300Hz</td><td>1kHz</td><td>10kHz</td><td>100kHz</td></tr><tr><td>6.3-50V</td><td>0.95</td><td>1.00</td><td>1.03</td><td>1.05</td><td>1.08</td><td>1.08</td></tr><tr><td>63-100V</td><td>0.92</td><td>1.00</td><td>1.07</td><td>1.13</td><td>1.19</td><td>1.20</td></tr><tr><td>160-250V</td><td>0.81</td><td>1.00</td><td>1.17</td><td>1.32</td><td>1.45</td><td>1.50</td></tr><tr><td>315-450V</td><td>0.77</td><td>1.00</td><td>1.16</td><td>1.30</td><td>1.41</td><td>1.43</td></tr></table> | +45°C             | +60°C  | +70°C  | +85°C   | +105°C  | 2.64    | 2.23    | 2.12    | 1.73                  | 1.00    | DC Rated Voltage | 50Hz | 120Hz | 300Hz | 1kHz | 10kHz | 100kHz                | 6.3-50V | 0.95  | 1.00 | 1.03 | 1.05 | 1.08 | 1.08 | 63-100V | 0.92 | 1.00 | 1.07 | 1.13 | 1.19 | 1.20 | 160-250V | 0.81 | 1.00 | 1.17 | 1.32 | 1.45 | 1.50 | 315-450V | 0.77 | 1.00 | 1.16 | 1.30 | 1.41 | 1.43 |
| +45°C                            | +60°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | +70°C             | +85°C  | +105°C |         |         |         |         |         |                       |         |                  |      |       |       |      |       |                       |         |       |      |      |      |      |      |         |      |      |      |      |      |      |          |      |      |      |      |      |      |          |      |      |      |      |      |      |
| 2.64                             | 2.23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2.12              | 1.73   | 1.00   |         |         |         |         |         |                       |         |                  |      |       |       |      |       |                       |         |       |      |      |      |      |      |         |      |      |      |      |      |      |          |      |      |      |      |      |      |          |      |      |      |      |      |      |
| DC Rated Voltage                 | 50Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 120Hz             | 300Hz  | 1kHz   | 10kHz   | 100kHz  |         |         |         |                       |         |                  |      |       |       |      |       |                       |         |       |      |      |      |      |      |         |      |      |      |      |      |      |          |      |      |      |      |      |      |          |      |      |      |      |      |      |
| 6.3-50V                          | 0.95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1.00              | 1.03   | 1.05   | 1.08    | 1.08    |         |         |         |                       |         |                  |      |       |       |      |       |                       |         |       |      |      |      |      |      |         |      |      |      |      |      |      |          |      |      |      |      |      |      |          |      |      |      |      |      |      |
| 63-100V                          | 0.92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1.00              | 1.07   | 1.13   | 1.19    | 1.20    |         |         |         |                       |         |                  |      |       |       |      |       |                       |         |       |      |      |      |      |      |         |      |      |      |      |      |      |          |      |      |      |      |      |      |          |      |      |      |      |      |      |
| 160-250V                         | 0.81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1.00              | 1.17   | 1.32   | 1.45    | 1.50    |         |         |         |                       |         |                  |      |       |       |      |       |                       |         |       |      |      |      |      |      |         |      |      |      |      |      |      |          |      |      |      |      |      |      |          |      |      |      |      |      |      |
| 315-450V                         | 0.77                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1.00              | 1.16   | 1.30   | 1.41    | 1.43    |         |         |         |                       |         |                  |      |       |       |      |       |                       |         |       |      |      |      |      |      |         |      |      |      |      |      |      |          |      |      |      |      |      |      |          |      |      |      |      |      |      |
| Endurance (Load Life)            | The following specifications shall be satisfied when the capacitors are restored to +20°C after subjecting them to DC voltage for 2,000 hours at +105°C with the rated ripple current applied. The sum of the DC voltage and peak AC voltage must not exceed the full rated voltage of the capacitors.<br><br>Capacitance change: ≤ ± 20% of initial measured value<br>Tan δ (DF) : ≤ 200% of initial specified value<br>Leakage current : ≤ initial specified value                                                                                                                                                                                                                                                                                                                    |                   |        |        |         |         |         |         |         |                       |         |                  |      |       |       |      |       |                       |         |       |      |      |      |      |      |         |      |      |      |      |      |      |          |      |      |      |      |      |      |          |      |      |      |      |      |      |
| Shelf Life                       | The following specifications shall be satisfied when the capacitors are restored to +20°C after exposing them for 1,000 hours at +105°C without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements.<br><br>Capacitance change: ≤ ± 20% of initial measured value<br>Tan δ (DF) : ≤ 150% of initial specified value<br>Leakage current : ≤ initial specified value                                                                                                                                                                                                                                                                                                  |                   |        |        |         |         |         |         |         |                       |         |                  |      |       |       |      |       |                       |         |       |      |      |      |      |      |         |      |      |      |      |      |      |          |      |      |      |      |      |      |          |      |      |      |      |      |      |

## Diagram of Dimensions - Snap Mount

### Snap Mount

Unit: mm

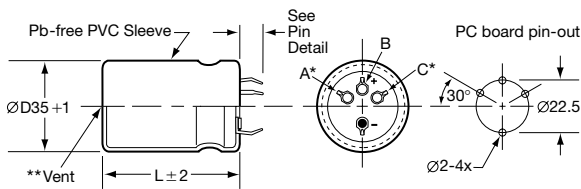
#### Types VSN & VNN $\varnothing 22\sim\varnothing 35$



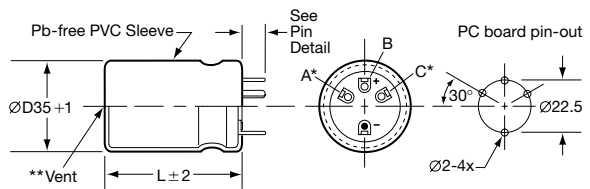
#### Type VRD $\varnothing 35$



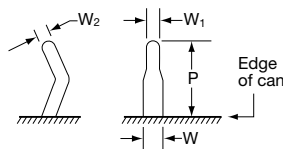
#### Type VND $\varnothing 35$ & $\varnothing 40$



#### Type VQD $\varnothing 35$

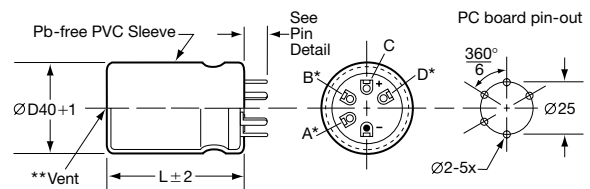


#### VS & VN Pin Dimensions



| Type                                       | P             | W             | W <sub>1</sub> | W <sub>2</sub> |
|--------------------------------------------|---------------|---------------|----------------|----------------|
| VSN $\varnothing 22\text{-}\varnothing 30$ | $4.0 \pm 0.5$ | $1.5 \pm 0.2$ | 1.0            | 1.0            |
| VSN $\varnothing 35$                       | $3.5 \pm 0.5$ |               |                |                |
| VNN $\varnothing 22\text{-}\varnothing 35$ | $5.8 \pm 1.0$ |               |                |                |
| VND $\varnothing 35\text{-}\varnothing 40$ | $5.8 \pm 1.0$ |               |                |                |

#### Type VQT $\varnothing 40$

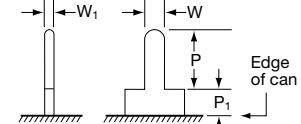


#### VR & VQ Pin Dimensions

##### VR Straight Pin



##### VQ Standoff Pin



| Type              | P              | P <sub>1</sub> | W             | W <sub>1</sub> |
|-------------------|----------------|----------------|---------------|----------------|
| Straight Pin (VR) | $5.50 \pm 1.0$ | —              | $1.5 \pm 0.1$ | 0.7            |
| Standoff Pin (VQ) | $3.75 \pm 1.0$ | 2.0 max.       |               |                |

#### CAUTION:

\*Use the blank terminals for mechanical support only. The blank terminals must not be connected to a solder trace on the PC board, but be electrically isolated from the negative or positive terminal.

\*\*Vent may be located either on the bottom or side of the can.

## Part Numbering System for KMH Series

When ordering, always specify complete 18-field global part number.



- 9 **Supplement Code.** Field 18.  
All construction options listed have Sn100% terminal plating.  
S = PET sleeve without end disk.  
W = PET sleeve with end disk.  
M = Pb-free PVC sleeve without end disk.  
T = Pb-free PVC sleeve with end disk.
- 8 **Case Size.** Fields 15, 16 and 17.  
The single letter diameter code is inserted in field 15.  
P = Ø22mm  
Q = Ø25.4mm  
R = Ø30mm  
A = Ø35mm  
B = Ø40mm  
  
The double digit length code is inserted in fields 16 and 17.  
20 = 20mm  
25 = 25mm  
30 = 30mm  
35 = 35mm  
40 = 40mm  
45 = 45mm  
50 = 50mm  
63 = 63mm  
80 = 80mm
- 7 **Capacitance Tolerance.** Field 14.  
M = ±20%
- 6 **Capacitance.** Fields 11, 12 and 13.  
Expressed in Microfarads. The first two digits are significant figures inserted in fields 11 and 12, and the third digit inserted in field 13 indicates the number of zeros for capacitance of 10µF or more. R indicates the decimal point for capacitance less than 10µF (e.g. 5R6 = 5.6µF; 560 = 56µF; 561 = 560µF; 562 = 5,600µF; 563 = 56,000µF).
- 5 **Dummy Terminals.** Field 10.  
N = No dummy terminals.  
D = 2 dummy terminals.  
T = 3 dummy terminals.
- 4 **Terminal Type.** Fields 8 and 9.  
VS = Snap-in pins, 4.0mm in length, 3.5mm for Ø35 only.  
VN = Snap-in pins, 5.8mm in length.  
VR = Straight pins.  
VQ = Straight standoff pins.
- 3 **DC Rated Voltage.** Fields 5, 6 and 7.  
Expressed in Volts. The first two digits are significant figures inserted in fields 5 and 6, and the third digit inserted in field 7 indicates the number of zeros for rated voltage of 10VDC or more. R indicates the decimal point for rated voltage less than 10VDC (e.g. 2R0 = 2.0VDC; 200 = 20VDC; 201 = 200VDC).  
Rule Exception: Coding for rated voltage 315VDC = 3B1.
- 2 **Series Name.** Fields 2, 3 and 4.  
Enter the 3-letter/digit series name in fields 2, 3 and 4. If the series name is only 2 letters/digits, place a dash in field 4.  
For a series name with more than 3 letters/digits, refer to the individual series for the appropriate 3-field series name.
- 1 **Capacitor Type.** Field 1.  
Aluminum Electrolytic Capacitor (Polar).

## Standard Voltage Ratings - Snap Mount

| Rated Voltage (WVDC) | Capacitance (μF) | Global Part Number† | Nominal Case Size* D × L (mm) | Case Size Code | Maximum ESR (Ω) at +20°C, 120Hz | Rated Ripple Current (A rms) at +105°C, 120Hz |
|----------------------|------------------|---------------------|-------------------------------|----------------|---------------------------------|-----------------------------------------------|
|----------------------|------------------|---------------------|-------------------------------|----------------|---------------------------------|-----------------------------------------------|

|                                    |         |                    |           |     |       |       |
|------------------------------------|---------|--------------------|-----------|-----|-------|-------|
| <b>6.3 Volts<br/>8 Volts Surge</b> | 12,000  | EKMH6R3VSN123MP25T | 22 × 25   | P25 | 0.083 | 1.54  |
|                                    | 15,000  | EKMH6R3VSN153MP25T | 22 × 25   | P25 | 0.066 | 1.72  |
|                                    | 18,000  | EKMH6R3VSN183MP30T | 22 × 30   | P30 | 0.055 | 1.95  |
|                                    | 22,000  | EKMH6R3VSN223MP35T | 22 × 35   | P35 | 0.045 | 2.23  |
|                                    | 27,000  | EKMH6R3VSN273MP40T | 22 × 40   | P40 | 0.037 | 2.54  |
|                                    | 33,000  | EKMH6R3VSN333MP45T | 22 × 45   | P45 | 0.03  | 2.88  |
|                                    | 18,000  | EKMH6R3VSN183MQ25T | 25.4 × 25 | Q25 | 0.055 | 1.96  |
|                                    | 22,000  | EKMH6R3VSN223MQ30T | 25.4 × 30 | Q30 | 0.045 | 2.25  |
|                                    | 27,000  | EKMH6R3VSN273MQ35T | 25.4 × 35 | Q35 | 0.037 | 2.57  |
|                                    | 33,000  | EKMH6R3VSN333MQ40T | 25.4 × 40 | Q40 | 0.03  | 2.93  |
|                                    | 39,000  | EKMH6R3VSN393MQ40T | 25.4 × 40 | Q40 | 0.026 | 3.18  |
|                                    | 47,000  | EKMH6R3VSN473MQ50T | 25.4 × 50 | Q50 | 0.021 | 3.69  |
|                                    | 22,000  | EKMH6R3VSN223MR25T | 30 × 25   | R25 | 0.045 | 2.28  |
|                                    | 27,000  | EKMH6R3VSN273MR25T | 30 × 25   | R25 | 0.037 | 2.52  |
|                                    | 33,000  | EKMH6R3VSN333MR30T | 30 × 30   | R30 | 0.03  | 2.89  |
|                                    | 39,000  | EKMH6R3VSN393MR35T | 30 × 35   | R35 | 0.026 | 3.26  |
|                                    | 47,000  | EKMH6R3VSN473MR40T | 30 × 40   | R40 | 0.021 | 3.69  |
|                                    | 56,000  | EKMH6R3VSN563MR45T | 30 × 45   | R45 | 0.018 | 4.16  |
|                                    | 68,000  | EKMH6R3VSN683MR50T | 30 × 50   | R50 | 0.015 | 4.71  |
|                                    | 33,000  | EKMH6R3VSN333MA25T | 35 × 25   | A25 | 0.03  | 2.93  |
|                                    | 39,000  | EKMH6R3VSN393MA30T | 35 × 30   | A30 | 0.026 | 3.4   |
|                                    | 47,000  | EKMH6R3VSN473MA30T | 35 × 30   | A30 | 0.021 | 3.73  |
|                                    | 56,000  | EKMH6R3VSN563MA35T | 35 × 35   | A35 | 0.018 | 4.12  |
|                                    | 68,000  | EKMH6R3VSN683MA40T | 35 × 40   | A40 | 0.015 | 4.69  |
|                                    | 82,000  | EKMH6R3VSN823MA45T | 35 × 45   | A45 | 0.012 | 5.32  |
|                                    | 120,000 | EKMH6R3VSN124MA63T | 35 × 63   | A63 | 0.011 | 6.9   |
|                                    | 180,000 | EKMH6R3VSN184MA80T | 35 × 80   | A80 | 0.008 | 9.04  |
|                                    | 56,000  | EKMH6R3VQT563MB25T | 40 × 25   | B25 | 0.026 | 3.87  |
|                                    | 68,000  | EKMH6R3VQT683MB30T | 40 × 30   | B30 | 0.02  | 4.47  |
|                                    | 82,000  | EKMH6R3VQT823MB35T | 40 × 35   | B35 | 0.018 | 5.09  |
|                                    | 100,000 | EKMH6R3VQT104MB40T | 40 × 40   | B40 | 0.014 | 5.79  |
|                                    | 150,000 | EKMH6R3VQT154MB50T | 40 × 50   | B50 | 0.011 | 7.54  |
|                                    | 180,000 | EKMH6R3VQT184MB63T | 40 × 63   | B63 | 0.009 | 8.82  |
|                                    | 220,000 | EKMH6R3VQT224MB80T | 40 × 80   | B80 | 0.008 | 10.61 |

|                                    |        |                    |           |     |       |      |
|------------------------------------|--------|--------------------|-----------|-----|-------|------|
| <b>10 Volts<br/>13 Volts Surge</b> | 10,000 | EKMH100VSN103MP25T | 22 × 25   | P25 | 0.083 | 1.55 |
|                                    | 12,000 | EKMH100VSN123MP30T | 22 × 30   | P30 | 0.069 | 1.77 |
|                                    | 15,000 | EKMH100VSN153MP30T | 22 × 30   | P30 | 0.055 | 1.97 |
|                                    | 18,000 | EKMH100VSN183MP35T | 22 × 35   | P35 | 0.046 | 2.21 |
|                                    | 22,000 | EKMH100VSN223MP40T | 22 × 40   | P40 | 0.038 | 2.51 |
|                                    | 27,000 | EKMH100VSN273MP50T | 22 × 50   | P50 | 0.031 | 2.93 |
|                                    | 15,000 | EKMH100VSN153MQ25T | 25.4 × 25 | Q25 | 0.055 | 1.96 |
|                                    | 18,000 | EKMH100VSN183MQ30T | 25.4 × 30 | Q30 | 0.046 | 2.23 |
|                                    | 22,000 | EKMH100VSN223MQ35T | 25.4 × 35 | Q35 | 0.038 | 2.54 |
|                                    | 27,000 | EKMH100VSN273MQ40T | 25.4 × 40 | Q40 | 0.031 | 2.9  |
|                                    | 33,000 | EKMH100VSN333MQ45T | 25.4 × 45 | Q45 | 0.025 | 3.3  |
|                                    | 39,000 | EKMH100VSN393MQ50T | 25.4 × 50 | Q50 | 0.021 | 3.68 |
|                                    | 22,000 | EKMH100VSN223MR25T | 30 × 25   | R25 | 0.038 | 2.4  |
|                                    | 27,000 | EKMH100VSN273MR30T | 30 × 30   | R30 | 0.031 | 2.87 |
|                                    | 33,000 | EKMH100VSN333MR35T | 30 × 35   | R35 | 0.025 | 3.28 |
|                                    | 39,000 | EKMH100VSN393MR40T | 30 × 40   | R40 | 0.021 | 3.69 |
|                                    | 47,000 | EKMH100VSN473MR45T | 30 × 45   | R45 | 0.018 | 4.17 |
|                                    | 56,000 | EKMH100VSN563MR50T | 30 × 50   | R50 | 0.015 | 4.68 |
|                                    | 27,000 | EKMH100VSN273MA25T | 35 × 25   | A25 | 0.031 | 2.73 |
|                                    | 33,000 | EKMH100VSN333MA30T | 35 × 30   | A30 | 0.025 | 3.16 |
|                                    | 39,000 | EKMH100VSN393MA30T | 35 × 30   | A30 | 0.021 | 3.43 |
|                                    | 47,000 | EKMH100VSN473MA35T | 35 × 35   | A35 | 0.018 | 3.76 |
|                                    | 56,000 | EKMH100VSN563MA40T | 35 × 40   | A40 | 0.015 | 4.67 |
|                                    | 68,000 | EKMH100VSN683MA50T | 35 × 50   | A50 | 0.012 | 5.46 |

† For terminal and construction options, refer to the part numbering system for descriptions and codes.

\* Refer to diagram of dimensions for detailed case size specifications.

## Standard Voltage Ratings - Snap Mount

| Rated Voltage (VWDC)               | Capacitance (μF) | Global Part Number† | Nominal Case Size* D × L (mm) | Case Size Code | Maximum ESR (Ω) at +20°C, 120Hz | Rated Ripple Current (A rms) at +105°C, 120Hz |
|------------------------------------|------------------|---------------------|-------------------------------|----------------|---------------------------------|-----------------------------------------------|
| <b>10 Volts<br/>13 Volts Surge</b> | 100,000          | EKMH100VSN104MA63T  | 35 × 63                       | A63            | 0.011                           | 6.9                                           |
|                                    | 120,000          | EKMH100VSN124MA80T  | 35 × 80                       | A80            | 0.009                           | 8.08                                          |
|                                    | 39,000           | EKMH100VQT393MB25T  | 40 × 25                       | B25            | 0.027                           | 3.54                                          |
|                                    | 56,000           | EKMH100VQT563MB30T  | 40 × 30                       | B30            | 0.021                           | 4.44                                          |
|                                    | 68,000           | EKMH100VQT683MB35T  | 40 × 35                       | B35            | 0.018                           | 5.08                                          |
|                                    | 82,000           | EKMH100VQT823MB40T  | 40 × 40                       | B40            | 0.015                           | 5.75                                          |
|                                    | 120,000          | EKMH100VQT124MB50T  | 40 × 50                       | B50            | 0.012                           | 7.39                                          |
|                                    | 150,000          | EKMH100VQT154MB63T  | 40 × 63                       | B63            | 0.009                           | 8.82                                          |
| <b>16 Volts<br/>20 Volts Surge</b> | 180,000          | EKMH100VQT184MB80T  | 40 × 80                       | B80            | 0.008                           | 10.51                                         |
|                                    | 6,800            | EKMH160VSN682MP25T  | 22 × 25                       | P25            | 0.098                           | 1.57                                          |
|                                    | 10,000           | EKMH160VSN103MP30T  | 22 × 30                       | P30            | 0.066                           | 1.97                                          |
|                                    | 12,000           | EKMH160VSN123MP35T  | 22 × 35                       | P35            | 0.055                           | 2.22                                          |
|                                    | 15,000           | EKMH160VSN153MP40T  | 22 × 40                       | P40            | 0.044                           | 2.55                                          |
|                                    | 18,000           | EKMH160VSN183MP45T  | 22 × 45                       | P45            | 0.037                           | 2.87                                          |
|                                    | 10,000           | EKMH160VSN103MQ25T  | 25.4 × 25                     | Q25            | 0.066                           | 1.97                                          |
|                                    | 12,000           | EKMH160VSN123MQ30T  | 25.4 × 30                     | Q30            | 0.055                           | 2.24                                          |
|                                    | 15,000           | EKMH160VSN153MQ35T  | 25.4 × 35                     | Q35            | 0.044                           | 2.58                                          |
|                                    | 18,000           | EKMH160VSN183MQ40T  | 25.4 × 40                     | Q40            | 0.037                           | 2.92                                          |
|                                    | 22,000           | EKMH160VSN223MQ45T  | 25.4 × 45                     | Q45            | 0.03                            | 3.32                                          |
|                                    | 27,000           | EKMH160VSN273MQ50T  | 25.4 × 50                     | Q50            | 0.025                           | 3.78                                          |
|                                    | 12,000           | EKMH160VSN123MR25T  | 30 × 25                       | R25            | 0.055                           | 2.45                                          |
|                                    | 15,000           | EKMH160VSN153MR25T  | 30 × 25                       | R25            | 0.044                           | 2.52                                          |
|                                    | 18,000           | EKMH160VSN183MR30T  | 30 × 30                       | R30            | 0.037                           | 2.88                                          |
|                                    | 22,000           | EKMH160VSN223MR35T  | 30 × 35                       | R35            | 0.03                            | 3.29                                          |
|                                    | 27,000           | EKMH160VSN273MR40T  | 30 × 40                       | R40            | 0.025                           | 3.77                                          |
|                                    | 33,000           | EKMH160VSN333MR45T  | 30 × 45                       | R45            | 0.02                            | 4.3                                           |
|                                    | 39,000           | EKMH160VSN393MR50T  | 30 × 50                       | R50            | 0.017                           | 4.81                                          |
|                                    | 18,000           | EKMH160VSN183MA25T  | 35 × 25                       | A25            | 0.037                           | 2.92                                          |
|                                    | 22,000           | EKMH160VSN223MA25T  | 35 × 25                       | A25            | 0.03                            | 3.23                                          |
|                                    | 27,000           | EKMH160VSN273MA30T  | 35 × 30                       | A30            | 0.025                           | 3.45                                          |
|                                    | 33,000           | EKMH160VSN333MA35T  | 35 × 35                       | A35            | 0.02                            | 4.26                                          |
|                                    | 39,000           | EKMH160VSN393MA40T  | 35 × 40                       | A40            | 0.017                           | 4.79                                          |
|                                    | 47,000           | EKMH160VSN473MA45T  | 35 × 45                       | A45            | 0.014                           | 5.43                                          |
|                                    | 68,000           | EKMH160VSN683MA63T  | 35 × 63                       | A63            | 0.012                           | 6.36                                          |
|                                    | 100,000          | EKMH160VSN104MA80T  | 35 × 80                       | A80            | 0.009                           | 8.25                                          |
|                                    | 33,000           | EKMH160VQT333MB25T  | 40 × 25                       | B25            | 0.027                           | 3.64                                          |
|                                    | 39,000           | EKMH160VQT333MB30T  | 40 × 30                       | B30            | 0.021                           | 4.15                                          |
|                                    | 47,000           | EKMH160VQT333MB35T  | 40 × 35                       | B35            | 0.018                           | 4.72                                          |
|                                    | 56,000           | EKMH160VQT333MB40T  | 40 × 40                       | B40            | 0.015                           | 5.31                                          |
|                                    | 82,000           | EKMH160VQT333MB50T  | 40 × 50                       | B50            | 0.012                           | 6.83                                          |
|                                    | 100,000          | EKMH160VQT333MB63T  | 40 × 63                       | B63            | 0.010                           | 8.05                                          |
|                                    | 150,000          | EKMH160VQT333MB80T  | 40 × 80                       | B80            | 0.008                           | 10.73                                         |
| <b>25 Volts<br/>32 Volts Surge</b> | 4,700            | EKMH250VSN472MP25T  | 22 × 25                       | P25            | 0.106                           | 1.5                                           |
|                                    | 5,600            | EKMH250VSN562MP25T  | 22 × 25                       | P25            | 0.089                           | 1.63                                          |
|                                    | 6,800            | EKMH250VSN682MP30T  | 22 × 30                       | P30            | 0.073                           | 1.86                                          |
|                                    | 8,200            | EKMH250VSN822MP35T  | 22 × 35                       | P35            | 0.061                           | 2.11                                          |
|                                    | 10,000           | EKMH250VSN103MP40T  | 22 × 40                       | P40            | 0.05                            | 2.39                                          |
|                                    | 12,000           | EKMH250VSN123MP45T  | 22 × 45                       | P45            | 0.041                           | 2.69                                          |
|                                    | 6,800            | EKMH250VSN682MQ25T  | 25.4 × 25                     | Q25            | 0.073                           | 1.87                                          |
|                                    | 8,200            | EKMH250VSN822MQ30T  | 25.4 × 30                     | Q30            | 0.061                           | 2.12                                          |
|                                    | 10,000           | EKMH250VSN103MQ35T  | 25.4 × 35                     | Q35            | 0.05                            | 2.42                                          |
|                                    | 12,000           | EKMH250VSN123MQ40T  | 25.4 × 40                     | Q40            | 0.041                           | 2.74                                          |
|                                    | 15,000           | EKMH250VSN153MQ45T  | 25.4 × 45                     | Q45            | 0.033                           | 3.15                                          |
|                                    | 18,000           | EKMH250VSN183MQ50T  | 25.4 × 50                     | Q50            | 0.028                           | 3.54                                          |
|                                    | 8,200            | EKMH250VSN822MR25T  | 30 × 25                       | R25            | 0.061                           | 2.15                                          |
|                                    | 10,000           | EKMH250VSN103MR25T  | 30 × 25                       | R25            | 0.05                            | 2.37                                          |
|                                    | 12,000           | EKMH250VSN123MR30T  | 30 × 30                       | R30            | 0.041                           | 2.7                                           |
|                                    | 15,000           | EKMH250VSN153MR35T  | 30 × 35                       | R35            | 0.033                           | 3.13                                          |

†For terminal and construction options, refer to the part numbering system for descriptions and codes.

\*Refer to diagram of dimensions for detailed case size specifications.

## Standard Voltage Ratings - Snap Mount

| Rated Voltage (WVDC) | Capacitance (μF) | Global Part Number† | Nominal Case Size* D × L (mm) | Case Size Code | Maximum ESR (Ω) at +20°C, 120Hz | Rated Ripple Current (A rms) at +105°C, 120Hz |
|----------------------|------------------|---------------------|-------------------------------|----------------|---------------------------------|-----------------------------------------------|
|----------------------|------------------|---------------------|-------------------------------|----------------|---------------------------------|-----------------------------------------------|

|                                    |        |                    |         |     |       |      |
|------------------------------------|--------|--------------------|---------|-----|-------|------|
| <b>25 Volts<br/>32 Volts Surge</b> | 18,000 | EKMH250VSN183MR40T | 30 × 40 | R40 | 0.028 | 3.54 |
|                                    | 22,000 | EKMH250VSN223MR45T | 30 × 45 | R45 | 0.023 | 4.04 |
|                                    | 12,000 | EKMH250VSN123MA25T | 35 × 25 | A25 | 0.041 | 2.74 |
|                                    | 15,000 | EKMH250VSN153MA30T | 35 × 30 | A30 | 0.033 | 3.27 |
|                                    | 18,000 | EKMH250VSN183MA30T | 35 × 30 | A30 | 0.028 | 3.58 |
|                                    | 22,000 | EKMH250VSN223MA35T | 35 × 35 | A35 | 0.023 | 3.64 |
|                                    | 27,000 | EKMH250VSN273MA45T | 35 × 45 | A45 | 0.018 | 4.73 |
|                                    | 33,000 | EKMH250VSN333MA50T | 35 × 50 | A50 | 0.015 | 5.39 |
|                                    | 47,000 | EKMH250VSN473MA63T | 35 × 63 | A63 | 0.012 | 6.11 |
|                                    | 68,000 | EKMH250VSN683MA80T | 35 × 80 | A80 | 0.009 | 7.86 |
|                                    | 18,000 | EKMH250VQT183MB25T | 40 × 25 | B25 | 0.029 | 3.11 |
|                                    | 27,000 | EKMH250VQT273MB30T | 40 × 30 | B30 | 0.021 | 3.98 |
|                                    | 33,000 | EKMH250VQT333MB35T | 40 × 35 | B35 | 0.018 | 4.57 |
|                                    | 39,000 | EKMH250VQT393MB40T | 40 × 40 | B40 | 0.015 | 5.12 |
|                                    | 47,000 | EKMH250VQT473MB50T | 40 × 50 | B50 | 0.013 | 5.97 |
|                                    | 68,000 | EKMH250VQT683MB63T | 40 × 63 | B63 | 0.010 | 7.67 |
|                                    | 82,000 | EKMH250VQT823MB80T | 40 × 80 | B80 | 0.008 | 9.16 |

|                                    |        |                    |           |     |       |      |
|------------------------------------|--------|--------------------|-----------|-----|-------|------|
| <b>35 Volts<br/>44 Volts Surge</b> | 3,300  | EKMH350VSN332MP25T | 22 × 25   | P25 | 0.126 | 1.4  |
|                                    | 3,900  | EKMH350VSN392MP30T | 22 × 30   | P30 | 0.106 | 1.57 |
|                                    | 4,700  | EKMH350VSN472MP30T | 22 × 30   | P30 | 0.088 | 1.72 |
|                                    | 5,600  | EKMH350VSN562MP35T | 22 × 35   | P35 | 0.074 | 1.95 |
|                                    | 6,800  | EKMH350VSN682MP40T | 22 × 40   | P40 | 0.061 | 2.2  |
|                                    | 8,200  | EKMH350VSN822MP50T | 22 × 50   | P50 | 0.051 | 2.55 |
|                                    | 4,700  | EKMH350VSN472MQ25T | 25.4 × 25 | Q25 | 0.088 | 1.8  |
|                                    | 5,600  | EKMH350VSN562MQ30T | 25.4 × 30 | Q30 | 0.074 | 1.96 |
|                                    | 6,800  | EKMH350VSN682MQ35T | 25.4 × 35 | Q35 | 0.061 | 2.23 |
|                                    | 8,200  | EKMH350VSN822MQ40T | 25.4 × 40 | Q40 | 0.051 | 2.53 |
|                                    | 10,000 | EKMH350VSN103MQ45T | 25.4 × 45 | Q45 | 0.041 | 2.87 |
|                                    | 12,000 | EKMH350VSN123MQ50T | 25.4 × 50 | Q50 | 0.035 | 3.24 |
|                                    | 5,600  | EKMH350VSN562MR25T | 30 × 25   | R25 | 0.074 | 1.99 |
|                                    | 6,800  | EKMH350VSN682MR25T | 30 × 25   | R25 | 0.061 | 2.19 |
|                                    | 8,200  | EKMH350VSN822MR30T | 30 × 30   | R30 | 0.051 | 2.75 |
|                                    | 10,000 | EKMH350VSN103MR35T | 30 × 35   | R35 | 0.041 | 2.9  |
|                                    | 12,000 | EKMH350VSN123MR40T | 30 × 40   | R40 | 0.035 | 3.23 |
|                                    | 15,000 | EKMH350VSN153MR45T | 30 × 45   | R45 | 0.028 | 3.72 |
|                                    | 8,200  | EKMH350VSN822MA25T | 35 × 25   | A25 | 0.051 | 2.75 |
|                                    | 10,000 | EKMH350VSN103MA30T | 35 × 30   | A30 | 0.041 | 2.91 |
|                                    | 12,000 | EKMH350VSN123MA30T | 35 × 30   | A30 | 0.035 | 2.99 |
|                                    | 15,000 | EKMH350VSN153MA35T | 35 × 35   | A35 | 0.028 | 3.67 |
|                                    | 18,000 | EKMH350VSN183MA40T | 35 × 40   | A40 | 0.023 | 4.37 |
|                                    | 22,000 | EKMH350VSN223MA50T | 35 × 50   | A50 | 0.019 | 4.92 |
|                                    | 33,000 | EKMH350VSN333MA63T | 35 × 63   | A63 | 0.012 | 5.60 |
|                                    | 39,000 | EKMH350VSN393MA80T | 35 × 80   | A80 | 0.010 | 6.52 |
|                                    | 12,000 | EKMH350VQT123MB25T | 40 × 25   | B25 | 0.030 | 2.78 |
|                                    | 18,000 | EKMH350VQT183MB30T | 40 × 30   | B30 | 0.022 | 3.56 |
|                                    | 22,000 | EKMH350VQT223MB35T | 40 × 35   | B35 | 0.019 | 4.09 |
|                                    | 27,000 | EKMH350VQT273MB40T | 40 × 40   | B40 | 0.016 | 4.66 |
|                                    | 33,000 | EKMH350VQT333MB50T | 40 × 50   | B50 | 0.013 | 5.48 |
|                                    | 47,000 | EKMH350VQT473MB63T | 40 × 63   | B63 | 0.010 | 6.98 |
|                                    | 56,000 | EKMH350VQT563MB80T | 40 × 80   | B80 | 0.008 | 8.29 |

|                                    |       |                    |           |     |       |      |
|------------------------------------|-------|--------------------|-----------|-----|-------|------|
| <b>50 Volts<br/>63 Volts Surge</b> | 1,800 | EKMH500VSN182MP25T | 22 × 25   | P25 | 0.184 | 1.33 |
|                                    | 2,700 | EKMH500VSN272MP30T | 22 × 30   | P30 | 0.123 | 1.69 |
|                                    | 3,300 | EKMH500VSN332MP35T | 22 × 35   | P35 | 0.10  | 1.93 |
|                                    | 3,900 | EKMH500VSN392MP40T | 22 × 40   | P40 | 0.085 | 2.16 |
|                                    | 4,700 | EKMH500VSN472MP45T | 22 × 45   | P45 | 0.071 | 2.43 |
|                                    | 5,600 | EKMH500VSN562MP50T | 22 × 50   | P50 | 0.059 | 2.75 |
|                                    | 2,700 | EKMH500VSN272MQ25T | 25.4 × 25 | Q25 | 0.123 | 1.7  |
|                                    | 3,300 | EKMH500VSN332MQ30T | 25.4 × 30 | Q30 | 0.10  | 1.85 |

† For terminal and construction options, refer to the part numbering system for descriptions and codes.

\* Refer to diagram of dimensions for detailed case size specifications.

## Standard Voltage Ratings - Snap Mount

| Rated Voltage (VWDC)              | Capacitance (μF) | Global Part Number† | Nominal Case Size* D × L (mm) | Case Size Code | Maximum ESR (Ω) at +20°C, 120Hz | Rated Ripple Current (A rms) at +105°C, 120Hz |
|-----------------------------------|------------------|---------------------|-------------------------------|----------------|---------------------------------|-----------------------------------------------|
| <b>50 Volts</b><br>63 Volts Surge | 3,900            | EKM500VSN392MQ35T   | 25.4 × 35                     | Q35            | 0.085                           | 2.18                                          |
|                                   | 4,700            | EKM500VSN472MQ35T   | 25.4 × 35                     | Q35            | 0.071                           | 2.39                                          |
|                                   | 5,600            | EKM500VSN562MQ40T   | 25.4 × 40                     | Q40            | 0.059                           | 2.7                                           |
|                                   | 6,800            | EKM500VSN682MQ50T   | 25.4 × 50                     | Q50            | 0.049                           | 3.3                                           |
|                                   | 3,900            | EKM500VSN392MR25T   | 30 × 25                       | R25            | 0.085                           | 1.95                                          |
|                                   | 4,700            | EKM500VSN472MR30T   | 30 × 30                       | R30            | 0.071                           | 2.25                                          |
|                                   | 5,600            | EKM500VSN562MR35T   | 30 × 35                       | R35            | 0.059                           | 2.76                                          |
|                                   | 6,800            | EKM500VSN682MR40T   | 30 × 40                       | R40            | 0.049                           | 3.3                                           |
|                                   | 8,200            | EKM500VSN822MR45T   | 30 × 45                       | R45            | 0.04                            | 3.6                                           |
|                                   | 10,000           | EKM500VSN103MR50T   | 30 × 50                       | R50            | 0.033                           | 4.04                                          |
|                                   | 4,700            | EKM500VSN472MA25T   | 35 × 25                       | A25            | 0.071                           | 2.48                                          |
|                                   | 5,600            | EKM500VSN562MA25T   | 35 × 25                       | A25            | 0.059                           | 2.7                                           |
|                                   | 6,800            | EKM500VSN682MA30T   | 35 × 30                       | A30            | 0.049                           | 3.25                                          |
|                                   | 8,200            | EKM500VSN822MA35T   | 35 × 35                       | A35            | 0.04                            | 3.55                                          |
|                                   | 10,000           | EKM500VSN103MA40T   | 35 × 40                       | A40            | 0.033                           | 4.03                                          |
|                                   | 12,000           | EKM500VSN123MA45T   | 35 × 45                       | A45            | 0.028                           | 4.55                                          |
|                                   | 18,000           | EKM500VSN183MA63T   | 35 × 63                       | A63            | 0.014                           | 4.63                                          |
|                                   | 27,000           | EKM500VSN273MA80T   | 35 × 80                       | A80            | 0.011                           | 6.06                                          |
|                                   | 8,200            | EKM500VQT822MB25T   | 40 × 25                       | B25            | 0.035                           | 2.57                                          |
|                                   | 10,000           | EKM500VQT103MB30T   | 40 × 30                       | B30            | 0.027                           | 2.97                                          |
|                                   | 12,000           | EKM500VQT123MB35T   | 40 × 35                       | B35            | 0.023                           | 3.37                                          |
|                                   | 15,000           | EKM500VQT153MB40T   | 40 × 40                       | B40            | 0.019                           | 3.89                                          |
|                                   | 22,000           | EKM500VQT223MB50T   | 40 × 50                       | B50            | 0.015                           | 5.0                                           |
|                                   | 27,000           | EKM500VQT273MB63T   | 40 × 63                       | B63            | 0.012                           | 5.92                                          |
|                                   | 39,000           | EKM500VQT393MB80T   | 40 × 80                       | B80            | 0.009                           | 7.74                                          |
| <b>63 Volts</b><br>79 Volts Surge | 1,200            | EKM630VSN122MP25T   | 22 × 25                       | P25            | 0.207                           | 1.19                                          |
|                                   | 1,500            | EKM630VSN152MP25T   | 22 × 25                       | P25            | 0.166                           | 1.33                                          |
|                                   | 1,800            | EKM630VSN182MP30T   | 22 × 30                       | P30            | 0.138                           | 1.51                                          |
|                                   | 2,200            | EKM630VSN222MP35T   | 22 × 35                       | P35            | 0.113                           | 1.73                                          |
|                                   | 2,700            | EKM630VSN272MP40T   | 22 × 40                       | P40            | 0.092                           | 1.97                                          |
|                                   | 3,300            | EKM630VSN332MP50T   | 22 × 50                       | P50            | 0.075                           | 2.29                                          |
|                                   | 1,800            | EKM630VSN182MQ25T   | 25.4 × 25                     | Q25            | 0.138                           | 1.52                                          |
|                                   | 2,200            | EKM630VSN222MQ30T   | 25.4 × 30                     | Q30            | 0.113                           | 1.74                                          |
|                                   | 2,700            | EKM630VSN272MQ35T   | 25.4 × 35                     | Q35            | 0.092                           | 1.99                                          |
|                                   | 3,300            | EKM630VSN332MQ40T   | 25.4 × 40                     | Q40            | 0.075                           | 2.27                                          |
|                                   | 3,900            | EKM630VSN392MQ45T   | 25.4 × 45                     | Q45            | 0.064                           | 2.54                                          |
|                                   | 4,700            | EKM630VSN472MQ50T   | 25.4 × 50                     | Q50            | 0.053                           | 2.86                                          |
|                                   | 2,700            | EKM630VSN272MR25T   | 30 × 25                       | R25            | 0.092                           | 1.76                                          |
|                                   | 3,300            | EKM630VSN332MR30T   | 30 × 30                       | R30            | 0.075                           | 2.24                                          |
|                                   | 3,900            | EKM630VSN392MR35T   | 30 × 35                       | R35            | 0.064                           | 2.55                                          |
|                                   | 4,700            | EKM630VSN472MR40T   | 30 × 40                       | R40            | 0.053                           | 2.86                                          |
|                                   | 5,600            | EKM630VSN562MR45T   | 30 × 45                       | R45            | 0.044                           | 3.22                                          |
|                                   | 6,800            | EKM630VSN682MR50T   | 30 × 50                       | R50            | 0.037                           | 3.65                                          |
|                                   | 3,300            | EKM630VSN332MA25T   | 35 × 25                       | A25            | 0.075                           | 2.06                                          |
|                                   | 3,900            | EKM630VSN392MA25T   | 35 × 25                       | A25            | 0.064                           | 2.24                                          |
|                                   | 4,700            | EKM630VSN472MA30T   | 35 × 30                       | A30            | 0.053                           | 2.79                                          |
|                                   | 5,600            | EKM630VSN562MA35T   | 35 × 35                       | A35            | 0.044                           | 3.19                                          |
|                                   | 6,800            | EKM630VSN682MA40T   | 35 × 40                       | A40            | 0.037                           | 3.64                                          |
|                                   | 8,200            | EKM630VSN822MA45T   | 35 × 45                       | A45            | 0.03                            | 3.9                                           |
|                                   | 10,000           | EKM630VSN103MA50T   | 35 × 50                       | A50            | 0.025                           | 4.4                                           |
|                                   | 15,000           | EKM630VSN153MA63T   | 35 × 63                       | A63            | 0.014                           | 4.88                                          |
|                                   | 18,000           | EKM630VSN183MA80T   | 35 × 80                       | A80            | 0.012                           | 5.72                                          |
|                                   | 5,600            | EKM630VQT562MB25T   | 40 × 25                       | B25            | 0.038                           | 2.45                                          |
|                                   | 8,200            | EKM630VQT822MB30T   | 40 × 30                       | B30            | 0.028                           | 3.1                                           |
|                                   | 10,000           | EKM630VQT103MB35T   | 40 × 35                       | B35            | 0.026                           | 3.56                                          |
|                                   | 12,000           | EKM630VQT123MB40T   | 40 × 40                       | B40            | 0.02                            | 4.01                                          |
|                                   | 15,000           | EKM630VQT153MB50T   | 40 × 50                       | B50            | 0.016                           | 4.77                                          |
|                                   | 18,000           | EKM630VQT183MB63T   | 40 × 63                       | B63            | 0.013                           | 5.58                                          |
|                                   | 27,000           | EKM630VQT273MB80T   | 40 × 80                       | B80            | 0.010                           | 7.43                                          |

† For terminal and construction options, refer to the part numbering system for descriptions and codes.

\* Refer to diagram of dimensions for detailed case size specifications.

## Standard Voltage Ratings - Snap Mount

| Rated Voltage (WVDC) | Capacitance (μF) | Global Part Number† | Nominal Case Size* D × L (mm) | Case Size Code | Maximum ESR (Ω) at +20°C, 120Hz | Rated Ripple Current (A rms) at +105°C, 120Hz |
|----------------------|------------------|---------------------|-------------------------------|----------------|---------------------------------|-----------------------------------------------|
|----------------------|------------------|---------------------|-------------------------------|----------------|---------------------------------|-----------------------------------------------|

|                             |        |                   |           |     |       |      |
|-----------------------------|--------|-------------------|-----------|-----|-------|------|
| 80 Volts<br>100 Volts Surge | 820    | EKM800VSN821MP25T | 22 × 25   | P25 | 0.303 | 1.11 |
|                             | 1,000  | EKM800VSN102MP25T | 22 × 25   | P25 | 0.249 | 1.22 |
|                             | 1,200  | EKM800VSN122MP30T | 22 × 30   | P30 | 0.207 | 1.38 |
|                             | 1,500  | EKM800VSN152MP35T | 22 × 35   | P35 | 0.166 | 1.59 |
|                             | 1,800  | EKM800VSN182MP40T | 22 × 40   | P40 | 0.138 | 1.8  |
|                             | 2,200  | EKM800VSN222MP45T | 22 × 45   | P45 | 0.113 | 2.04 |
|                             | 1,200  | EKM800VSN122MQ25T | 25.4 × 25 | Q25 | 0.207 | 1.39 |
|                             | 1,500  | EKM800VSN152MQ30T | 25.4 × 30 | Q30 | 0.166 | 1.61 |
|                             | 1,800  | EKM800VSN182MQ30T | 25.4 × 30 | Q30 | 0.138 | 1.76 |
|                             | 2,200  | EKM800VSN222MQ35T | 25.4 × 35 | Q35 | 0.113 | 2.01 |
|                             | 2,700  | EKM800VSN272MQ45T | 25.4 × 45 | Q45 | 0.092 | 2.36 |
|                             | 3,300  | EKM800VSN332MQ50T | 25.4 × 50 | Q50 | 0.075 | 2.68 |
|                             | 1,800  | EKM800VSN182MR25T | 30 × 25   | R25 | 0.138 | 1.65 |
|                             | 2,200  | EKM800VSN222MR30T | 30 × 30   | R30 | 0.113 | 2.05 |
|                             | 2,700  | EKM800VSN272MR35T | 30 × 35   | R35 | 0.092 | 2.35 |
|                             | 3,300  | EKM800VSN332MR40T | 30 × 40   | R40 | 0.075 | 2.68 |
|                             | 3,900  | EKM800VSN392MR45T | 30 × 45   | R45 | 0.064 | 3.0  |
|                             | 4,700  | EKM800VSN472MR50T | 30 × 50   | R50 | 0.053 | 3.39 |
|                             | 2,200  | EKM800VSN222MA25T | 35 × 25   | A25 | 0.113 | 2.07 |
|                             | 2,700  | EKM800VSN272MA25T | 35 × 25   | A25 | 0.092 | 2.29 |
|                             | 3,300  | EKM800VSN332MA30T | 35 × 30   | A30 | 0.075 | 2.45 |
|                             | 3,900  | EKM800VSN392MA35T | 35 × 35   | A35 | 0.064 | 2.98 |
|                             | 4,700  | EKM800VSN472MA40T | 35 × 40   | A40 | 0.053 | 3.38 |
|                             | 5,600  | EKM800VSN562MA45T | 35 × 45   | A45 | 0.044 | 3.8  |
|                             | 6,800  | EKM800VSN682MA50T | 35 × 50   | A50 | 0.037 | 3.9  |
|                             | 8,200  | EKM800VSN822MA63T | 35 × 63   | A63 | 0.03  | 4.42 |
|                             | 12,000 | EKM800VSN103MA80T | 35 × 80   | A80 | 0.021 | 5.72 |
|                             | 3,900  | EKM800VQT392MB25T | 40 × 25   | B25 | 0.064 | 2.5  |
|                             | 4,700  | EKM800VQT472MB30T | 40 × 30   | B30 | 0.053 | 2.88 |
|                             | 5,600  | EKM800VQT562MB35T | 40 × 35   | B35 | 0.044 | 3.26 |
|                             | 6,800  | EKM800VQT682MB40T | 40 × 40   | B40 | 0.037 | 3.7  |
|                             | 10,000 | EKM800VQT103MB50T | 40 × 50   | B50 | 0.025 | 4.77 |
|                             | 12,000 | EKM800VQT123MB63T | 40 × 63   | B63 | 0.021 | 5.58 |
|                             | 18,000 | EKM800VQT183MB80T | 40 × 80   | B80 | 0.014 | 7.43 |

|                              |       |                   |           |     |       |      |
|------------------------------|-------|-------------------|-----------|-----|-------|------|
| 100 Volts<br>125 Volts Surge | 560   | EKM101VSN561MP25T | 22 × 25   | P25 | 0.444 | 1.05 |
|                              | 820   | EKM101VSN821MP30T | 22 × 30   | P30 | 0.303 | 1.32 |
|                              | 1,000 | EKM101VSN102MP35T | 22 × 35   | P35 | 0.249 | 1.5  |
|                              | 1,200 | EKM101VSN122MP40T | 22 × 40   | P40 | 0.207 | 1.69 |
|                              | 1,500 | EKM101VSN152MP45T | 22 × 45   | P45 | 0.166 | 1.94 |
|                              | 820   | EKM101VSN821MQ25T | 25.4 × 25 | Q25 | 0.303 | 1.33 |
|                              | 1,000 | EKM101VSN102MQ30T | 25.4 × 30 | Q30 | 0.249 | 1.51 |
|                              | 1,200 | EKM101VSN122MQ35T | 25.4 × 35 | Q35 | 0.207 | 1.71 |
|                              | 1,500 | EKM101VSN152MQ40T | 25.4 × 40 | Q40 | 0.166 | 1.98 |
|                              | 1,800 | EKM101VSN182MQ45T | 25.4 × 45 | Q45 | 0.138 | 2.23 |
|                              | 2,200 | EKM101VSN222MQ50T | 25.4 × 50 | Q50 | 0.113 | 2.53 |
|                              | 1,200 | EKM101VSN122MR25T | 30 × 25   | R25 | 0.207 | 1.68 |
|                              | 1,500 | EKM101VSN152MR30T | 30 × 30   | R30 | 0.166 | 1.95 |
|                              | 1,800 | EKM101VSN182MR35T | 30 × 35   | R35 | 0.138 | 2.5  |
|                              | 2,200 | EKM101VSN222MR40T | 30 × 40   | R40 | 0.113 | 2.7  |
|                              | 2,700 | EKM101VSN272MR45T | 30 × 45   | R45 | 0.092 | 2.88 |
|                              | 3,300 | EKM101VSN332MR50T | 30 × 50   | R50 | 0.075 | 3.28 |
|                              | 1,500 | EKM101VSN152MA25T | 35 × 25   | A25 | 0.166 | 1.98 |
|                              | 1,800 | EKM101VSN182MA25T | 35 × 25   | A25 | 0.138 | 2.17 |
|                              | 2,200 | EKM101VSN222MA30T | 35 × 30   | A30 | 0.113 | 2.5  |
|                              | 2,700 | EKM101VSN272MA35T | 35 × 35   | A35 | 0.092 | 2.86 |
|                              | 3,300 | EKM101VSN332MA40T | 35 × 40   | A40 | 0.075 | 3.27 |
|                              | 3,900 | EKM101VSN392MA45T | 35 × 45   | A45 | 0.064 | 3.67 |
|                              | 4,700 | EKM101VSN472MA50T | 35 × 50   | A50 | 0.053 | 3.8  |

† For terminal and construction options, refer to the part numbering system for descriptions and codes.

\* Refer to diagram of dimensions for detailed case size specifications.

## Standard Voltage Ratings - Snap Mount

| Rated Voltage (VWDC)                 | Capacitance (μF) | Global Part Number† | Nominal Case Size* D × L (mm) | Case Size Code | Maximum ESR (Ω) at +20°C, 120Hz | Rated Ripple Current (A rms) at +105°C, 120Hz |
|--------------------------------------|------------------|---------------------|-------------------------------|----------------|---------------------------------|-----------------------------------------------|
| <b>100 Volts<br/>125 Volts Surge</b> | 5,600            | EKMH101VSN562MA63T  | 35 × 63                       | A63            | 0.044                           | 4.08                                          |
|                                      | 6,800            | EKMH101VSN682MA80T  | 35 × 80                       | A80            | 0.037                           | 4.81                                          |
|                                      | 2,200            | EKMH101VQT222MB25T  | 40 × 25                       | B25            | 0.113                           | 2.1                                           |
|                                      | 2,700            | EKMH101VQT272MB30T  | 40 × 30                       | B30            | 0.092                           | 2.44                                          |
|                                      | 3,300            | EKMH101VQT332MB35T  | 40 × 35                       | B35            | 0.075                           | 2.8                                           |
|                                      | 4,700            | EKMH101VQT472MB40T  | 40 × 40                       | B40            | 0.053                           | 3.44                                          |
|                                      | 5,600            | EKMH101VQT562MB50T  | 40 × 50                       | B50            | 0.044                           | 3.99                                          |
|                                      | 8,200            | EKMH101VQT822MB63T  | 40 × 63                       | B63            | 0.03                            | 5.16                                          |
|                                      | 10,000           | EKMH101VQT103MB80T  | 40 × 80                       | B80            | 0.025                           | 6.19                                          |
| <b>160 Volts<br/>200 Volts Surge</b> | 220              | EKMH161VSN221MP20T  | 22 × 20                       | P20            | 1.13                            | 0.8                                           |
|                                      | 270              | EKMH161VSN271MP25T  | 22 × 25                       | P25            | 0.614                           | 1.09                                          |
|                                      | 330              | EKMH161VSN331MP25T  | 22 × 25                       | P25            | 0.502                           | 1.2                                           |
|                                      | 390              | EKMH161VSN391MP30T  | 22 × 30                       | P30            | 0.425                           | 1.3                                           |
|                                      | 470              | EKMH161VSN471MP35T  | 22 × 35                       | P35            | 0.353                           | 1.4                                           |
|                                      | 560              | EKMH161VSN561MP40T  | 22 × 40                       | P40            | 0.296                           | 1.5                                           |
|                                      | 680              | EKMH161VSN681MP45T  | 22 × 45                       | P45            | 0.244                           | 1.71                                          |
|                                      | 820              | EKMH161VSN821MP50T  | 22 × 50                       | P50            | 0.202                           | 1.93                                          |
|                                      | 330              | EKMH161VSN331MQ20T  | 25.4 × 20                     | Q20            | 0.753                           | 1.02                                          |
|                                      | 390              | EKMH161VSN391MQ25T  | 25.4 × 25                     | Q25            | 0.425                           | 1.28                                          |
|                                      | 470              | EKMH161VSN471MQ25T  | 25.4 × 25                     | Q25            | 0.353                           | 1.41                                          |
|                                      | 560              | EKMH161VSN561MQ30T  | 25.4 × 30                     | Q30            | 0.296                           | 1.51                                          |
|                                      | 680              | EKMH161VSN681MQ35T  | 25.4 × 35                     | Q35            | 0.244                           | 1.7                                           |
|                                      | 820              | EKMH161VSN821MQ40T  | 25.4 × 40                     | Q40            | 0.202                           | 2.01                                          |
|                                      | 1,000            | EKMH161VSN102MQ45T  | 25.4 × 45                     | Q45            | 0.166                           | 2.2                                           |
|                                      | 1,200            | EKMH161VSN122MQ50T  | 25.4 × 50                     | Q50            | 0.138                           | 2.45                                          |
|                                      | 390              | EKMH161VSN391MR20T  | 30 × 20                       | R20            | 0.638                           | 1.17                                          |
|                                      | 470              | EKMH161VSN471MR20T  | 30 × 20                       | R20            | 0.529                           | 1.28                                          |
|                                      | 560              | EKMH161VSN561MR25T  | 30 × 25                       | R25            | 0.296                           | 1.56                                          |
|                                      | 680              | EKMH161VSN681MR25T  | 30 × 25                       | R25            | 0.244                           | 1.72                                          |
|                                      | 820              | EKMH161VSN821MR30T  | 30 × 30                       | R30            | 0.202                           | 2.0                                           |
|                                      | 1,000            | EKMH161VSN102MR35T  | 30 × 35                       | R35            | 0.166                           | 2.22                                          |
|                                      | 1,200            | EKMH161VSN122MR40T  | 30 × 40                       | R40            | 0.138                           | 2.44                                          |
|                                      | 1,500            | EKMH161VSN152MR45T  | 30 × 45                       | R45            | 0.111                           | 2.82                                          |
|                                      | 1,800            | EKMH161VSN182MR50T  | 30 × 50                       | R50            | 0.092                           | 3.31                                          |
|                                      | 560              | EKMH161VSN561MA20T  | 35 × 20                       | A20            | 0.444                           | 1.54                                          |
|                                      | 680              | EKMH161VSN681MA20T  | 35 × 20                       | A20            | 0.366                           | 1.7                                           |
|                                      | 820              | EKMH161VSN821MA25T  | 35 × 25                       | A25            | 0.303                           | 1.91                                          |
|                                      | 1,000            | EKMH161VSN102MA25T  | 35 × 25                       | A25            | 0.249                           | 2.11                                          |
|                                      | 1,200            | EKMH161VSN122MA30T  | 35 × 30                       | A30            | 0.207                           | 2.44                                          |
|                                      | 1,500            | EKMH161VSN152MA35T  | 35 × 35                       | A35            | 0.166                           | 2.5                                           |
|                                      | 1,800            | EKMH161VSN182MA45T  | 35 × 45                       | A45            | 0.138                           | 3.31                                          |
|                                      | 2,200            | EKMH161VSN222MA50T  | 35 × 50                       | A50            | 0.113                           | 3.77                                          |
|                                      | 3,300            | EKMH161VSN332MA63T  | 35 × 63                       | A63            | 0.075                           | 3.96                                          |
|                                      | 3,900            | EKMH161VSN392MA80T  | 35 × 80                       | A80            | 0.064                           | 4.61                                          |
|                                      | 1,200            | EKMH161VQT122MB25T  | 40 × 25                       | B25            | 0.207                           | 1.96                                          |
|                                      | 1,800            | EKMH161VQT182MB30T  | 40 × 30                       | B30            | 0.138                           | 2.52                                          |
|                                      | 2,200            | EKMH161VQT222MB35T  | 40 × 35                       | B35            | 0.113                           | 2.89                                          |
|                                      | 2,700            | EKMH161VQT272MB40T  | 40 × 40                       | B40            | 0.092                           | 3.3                                           |
|                                      | 3,300            | EKMH161VQT332MB50T  | 40 × 50                       | B50            | 0.075                           | 3.87                                          |
|                                      | 4,700            | EKMH161VQT472MB63T  | 40 × 63                       | B63            | 0.053                           | 4.94                                          |
|                                      | 5,600            | EKMH161VQT562MB80T  | 40 × 80                       | B80            | 0.044                           | 5.86                                          |
| <b>180 Volts<br/>225 Volts Surge</b> | 180              | EKMH181VSN181MP20T  | 22 × 20                       | P20            | 1.381                           | 0.73                                          |
|                                      | 220              | EKMH181VSN221MP20T  | 22 × 20                       | P20            | 1.13                            | 0.8                                           |
|                                      | 270              | EKMH181VSN271MP25T  | 22 × 25                       | P25            | 0.614                           | 0.96                                          |
|                                      | 330              | EKMH181VSN331MP25T  | 22 × 25                       | P25            | 0.502                           | 1.06                                          |
|                                      | 390              | EKMH181VSN391MP30T  | 22 × 30                       | P30            | 0.425                           | 1.3                                           |
|                                      | 470              | EKMH181VSN471MP35T  | 22 × 35                       | P35            | 0.353                           | 1.35                                          |

†For terminal and construction options, refer to the part numbering system for descriptions and codes.

\*Refer to diagram of dimensions for detailed case size specifications.

## Standard Voltage Ratings - Snap Mount

| Rated Voltage (WVDC) | Capacitance (μF) | Global Part Number† | Nominal Case Size* D × L (mm) | Case Size Code | Maximum ESR (Ω) at +20°C, 120Hz | Rated Ripple Current (A rms) at +105°C, 120Hz |
|----------------------|------------------|---------------------|-------------------------------|----------------|---------------------------------|-----------------------------------------------|
|----------------------|------------------|---------------------|-------------------------------|----------------|---------------------------------|-----------------------------------------------|

|                              |       |                   |           |     |       |      |
|------------------------------|-------|-------------------|-----------|-----|-------|------|
| 180 Volts<br>225 Volts Surge | 560   | EKM181VSN561MP40T | 22 × 40   | P40 | 0.296 | 1.51 |
|                              | 680   | EKM181VSN681MP45T | 22 × 45   | P45 | 0.244 | 1.71 |
|                              | 820   | EKM181VSN821MP50T | 22 × 50   | P50 | 0.202 | 1.97 |
|                              | 270   | EKM181VSN271MQ20T | 25.4 × 20 | Q20 | 0.921 | 0.92 |
|                              | 330   | EKM181VSN331MQ25T | 25.4 × 25 | Q25 | 0.502 | 1.2  |
|                              | 390   | EKM181VSN391MQ25T | 25.4 × 25 | Q25 | 0.425 | 1.3  |
|                              | 470   | EKM181VSN471MQ30T | 25.4 × 30 | Q30 | 0.353 | 1.4  |
|                              | 560   | EKM181VSN561MQ35T | 25.4 × 35 | Q35 | 0.296 | 1.53 |
|                              | 680   | EKM181VSN681MQ40T | 25.4 × 40 | Q40 | 0.244 | 1.74 |
|                              | 820   | EKM181VSN821MQ45T | 25.4 × 45 | Q45 | 0.202 | 1.97 |
|                              | 1,000 | EKM181VSN102MQ50T | 25.4 × 50 | Q50 | 0.166 | 2.23 |
|                              | 390   | EKM181VSN391MR20T | 30 × 20   | R20 | 0.638 | 1.17 |
|                              | 470   | EKM181VSN471MR25T | 30 × 25   | R25 | 0.353 | 1.38 |
|                              | 560   | EKM181VSN561MR25T | 30 × 25   | R25 | 0.296 | 1.51 |
|                              | 680   | EKM181VSN681MR30T | 30 × 30   | R30 | 0.244 | 1.72 |
|                              | 820   | EKM181VSN821MR35T | 30 × 35   | R35 | 0.202 | 2.0  |
|                              | 1,000 | EKM181VSN102MR40T | 30 × 40   | R40 | 0.166 | 2.24 |
|                              | 1,200 | EKM181VSN122MR45T | 30 × 45   | R45 | 0.138 | 2.52 |
|                              | 1,500 | EKM181VSN152MR50T | 30 × 50   | R50 | 0.111 | 2.89 |
|                              | 470   | EKM181VSN471MA20T | 35 × 20   | A20 | 0.529 | 1.41 |
|                              | 560   | EKM181VSN561MA20T | 35 × 20   | A20 | 0.444 | 1.53 |
|                              | 680   | EKM181VSN681MA25T | 35 × 25   | A25 | 0.366 | 1.74 |
|                              | 820   | EKM181VSN821MA25T | 35 × 25   | A25 | 0.303 | 1.91 |
|                              | 1,000 | EKM181VSN102MA30T | 35 × 30   | A30 | 0.249 | 2.26 |
|                              | 1,200 | EKM181VSN122MA35T | 35 × 35   | A35 | 0.207 | 2.5  |
|                              | 1,500 | EKM181VSN152MA40T | 35 × 40   | A40 | 0.166 | 2.89 |
|                              | 1,800 | EKM181VSN182MA40T | 35 × 40   | A40 | 0.138 | 3.17 |
|                              | 2,200 | EKM181VSN222MA50T | 35 × 50   | A50 | 0.113 | 3.6  |
|                              | 2,700 | EKM181VSN272MA63T | 35 × 63   | A63 | 0.092 | 4.01 |
|                              | 3,300 | EKM181VSN332MA80T | 35 × 80   | A80 | 0.075 | 4.74 |
|                              | 1,000 | EKM181VQT102MB25T | 40 × 25   | B25 | 0.249 | 2.01 |
|                              | 1,500 | EKM181VQT152MB30T | 40 × 30   | B30 | 0.166 | 2.57 |
|                              | 1,800 | EKM181VQT182MB35T | 40 × 35   | B35 | 0.138 | 2.92 |
|                              | 2,200 | EKM181VQT222MB40T | 40 × 40   | B40 | 0.113 | 3.33 |
|                              | 2,700 | EKM181VQT272MB50T | 40 × 50   | B50 | 0.092 | 3.92 |
|                              | 3,900 | EKM181VQT392MB63T | 40 × 63   | B63 | 0.064 | 5.03 |
|                              | 4,700 | EKM181VQT472MB80T | 40 × 80   | B80 | 0.053 | 6.01 |

|                              |     |                   |           |     |       |      |
|------------------------------|-----|-------------------|-----------|-----|-------|------|
| 200 Volts<br>250 Volts Surge | 150 | EKM201VSN151MP20T | 22 × 20   | P20 | 1.658 | 0.66 |
|                              | 180 | EKM201VSN181MP20T | 22 × 20   | P20 | 1.381 | 0.72 |
|                              | 220 | EKM201VSN221MP25T | 22 × 25   | P25 | 0.753 | 0.79 |
|                              | 270 | EKM201VSN271MP25T | 22 × 25   | P25 | 0.614 | 0.87 |
|                              | 330 | EKM201VSN331MP30T | 22 × 30   | P30 | 0.502 | 1.2  |
|                              | 390 | EKM201VSN391MP35T | 22 × 35   | P35 | 0.425 | 1.31 |
|                              | 470 | EKM201VSN471MP40T | 22 × 40   | P40 | 0.353 | 1.4  |
|                              | 560 | EKM201VSN561MP45T | 22 × 45   | P45 | 0.296 | 1.56 |
|                              | 680 | EKM201VSN681MP50T | 22 × 50   | P50 | 0.244 | 1.74 |
|                              | 220 | EKM201VSN221MQ20T | 25.4 × 20 | Q20 | 1.13  | 0.83 |
|                              | 270 | EKM201VSN271MQ25T | 25.4 × 25 | Q25 | 0.614 | 1.09 |
|                              | 330 | EKM201VSN331MQ25T | 25.4 × 25 | Q25 | 0.502 | 1.21 |
|                              | 390 | EKM201VSN391MQ25T | 25.4 × 25 | Q25 | 0.425 | 1.31 |
|                              | 470 | EKM201VSN471MQ30T | 25.4 × 30 | Q30 | 0.353 | 1.41 |
|                              | 560 | EKM201VSN561MQ35T | 25.4 × 35 | Q35 | 0.296 | 1.53 |
|                              | 680 | EKM201VSN681MQ40T | 25.4 × 40 | Q40 | 0.244 | 1.74 |
|                              | 820 | EKM201VSN821MQ50T | 25.4 × 50 | Q50 | 0.202 | 2.04 |
|                              | 330 | EKM201VSN331MR20T | 30 × 20   | R20 | 0.753 | 1.08 |
|                              | 390 | EKM201VSN391MR25T | 30 × 25   | R25 | 0.425 | 1.37 |
|                              | 470 | EKM201VSN471MR25T | 30 × 25   | R25 | 0.353 | 1.5  |
|                              | 560 | EKM201VSN561MR25T | 30 × 25   | R25 | 0.296 | 1.63 |

† For terminal and construction options, refer to the part numbering system for descriptions and codes.

\* Refer to diagram of dimensions for detailed case size specifications.

## Standard Voltage Ratings - Snap Mount

| Rated Voltage (VWDC) | Capacitance (μF) | Global Part Number† | Nominal Case Size* D × L (mm) | Case Size Code | Maximum ESR (Ω) at +20°C, 120Hz | Rated Ripple Current (A rms) at +105°C, 120Hz |
|----------------------|------------------|---------------------|-------------------------------|----------------|---------------------------------|-----------------------------------------------|
|----------------------|------------------|---------------------|-------------------------------|----------------|---------------------------------|-----------------------------------------------|

|                                      |       |                    |         |     |       |      |
|--------------------------------------|-------|--------------------|---------|-----|-------|------|
| <b>200 Volts<br/>250 Volts Surge</b> | 680   | EKMH201VSN681MR30T | 30 × 30 | R30 | 0.244 | 1.74 |
|                                      | 820   | EKMH201VSN821MR35T | 30 × 35 | R35 | 0.202 | 2.0  |
|                                      | 1,000 | EKMH201VSN102MR45T | 30 × 45 | R45 | 0.166 | 2.3  |
|                                      | 1,200 | EKMH201VSN122MR50T | 30 × 50 | R50 | 0.138 | 2.6  |
|                                      | 470   | EKMH201VSN471MA20T | 35 × 20 | A20 | 0.529 | 1.41 |
|                                      | 560   | EKMH201VSN561MA25T | 35 × 25 | A25 | 0.444 | 1.56 |
|                                      | 680   | EKMH201VSN681MA25T | 35 × 25 | A25 | 0.366 | 1.72 |
|                                      | 820   | EKMH201VSN821MA30T | 35 × 30 | A30 | 0.303 | 2.04 |
|                                      | 1,000 | EKMH201VSN102MA35T | 35 × 35 | A35 | 0.249 | 2.3  |
|                                      | 1,200 | EKMH201VSN122MA40T | 35 × 40 | A40 | 0.207 | 2.65 |
|                                      | 1,500 | EKMH201VSN152MA45T | 35 × 45 | A45 | 0.166 | 3.08 |
|                                      | 1,800 | EKMH201VSN182MA50T | 35 × 50 | A50 | 0.138 | 3.47 |
|                                      | 2,200 | EKMH201VSN222MA63T | 35 × 63 | A63 | 0.113 | 3.62 |
|                                      | 3,300 | EKMH201VSN332MA80T | 35 × 80 | A80 | 0.075 | 4.74 |
|                                      | 1,000 | EKMH201VQT102MB25T | 40 × 25 | B25 | 0.249 | 2.01 |
|                                      | 1,200 | EKMH201VQT122MB30T | 40 × 30 | B30 | 0.207 | 2.3  |
|                                      | 1,500 | EKMH201VQT152MB35T | 40 × 35 | B35 | 0.166 | 2.67 |
|                                      | 1,800 | EKMH201VQT182MB40T | 40 × 40 | B40 | 0.138 | 3.01 |
|                                      | 2,700 | EKMH201VQT272MB50T | 40 × 50 | B50 | 0.092 | 3.92 |
|                                      | 3,300 | EKMH201VQT332MB63T | 40 × 63 | B63 | 0.075 | 4.63 |
|                                      | 4,700 | EKMH201VQT472MB80T | 40 × 80 | B80 | 0.053 | 6.01 |

|                                      |       |                    |           |     |       |      |
|--------------------------------------|-------|--------------------|-----------|-----|-------|------|
| <b>250 Volts<br/>300 Volts Surge</b> | 120   | EKMH251VSN121MP20T | 22 × 20   | P20 | 2.072 | 0.59 |
|                                      | 150   | EKMH251VSN151MP25T | 22 × 25   | P25 | 1.105 | 0.71 |
|                                      | 180   | EKMH251VSN181MP25T | 22 × 25   | P25 | 0.921 | 0.78 |
|                                      | 220   | EKMH251VSN221MP30T | 22 × 30   | P30 | 0.753 | 0.95 |
|                                      | 270   | EKMH251VSN271MP35T | 22 × 35   | P35 | 0.614 | 1.14 |
|                                      | 330   | EKMH251VSN331MP40T | 22 × 40   | P40 | 0.502 | 1.26 |
|                                      | 390   | EKMH251VSN391MP45T | 22 × 45   | P45 | 0.425 | 1.49 |
|                                      | 470   | EKMH251VSN471MP50T | 22 × 50   | P50 | 0.353 | 1.57 |
|                                      | 180   | EKMH251VSN181MQ20T | 25.4 × 20 | Q20 | 1.381 | 0.75 |
|                                      | 220   | EKMH251VSN221MQ25T | 25.4 × 25 | Q25 | 0.753 | 0.95 |
|                                      | 270   | EKMH251VSN271MQ25T | 25.4 × 25 | Q25 | 0.614 | 1.05 |
|                                      | 330   | EKMH251VSN331MQ30T | 25.4 × 30 | Q30 | 0.502 | 1.2  |
|                                      | 390   | EKMH251VSN391MQ35T | 25.4 × 35 | Q35 | 0.425 | 1.49 |
|                                      | 470   | EKMH251VSN471MQ40T | 25.4 × 40 | Q40 | 0.353 | 1.57 |
|                                      | 560   | EKMH251VSN561MQ45T | 25.4 × 45 | Q45 | 0.296 | 1.79 |
|                                      | 680   | EKMH251VSN681MQ50T | 25.4 × 50 | Q50 | 0.244 | 1.84 |
|                                      | 220   | EKMH251VSN221MR20T | 30 × 20   | R20 | 1.13  | 0.88 |
|                                      | 270   | EKMH251VSN271MR20T | 30 × 20   | R20 | 0.921 | 0.97 |
|                                      | 330   | EKMH251VSN331MR25T | 30 × 25   | R25 | 0.502 | 1.26 |
|                                      | 390   | EKMH251VSN391MR25T | 30 × 25   | R25 | 0.425 | 1.37 |
|                                      | 470   | EKMH251VSN471MR30T | 30 × 30   | R30 | 0.353 | 1.57 |
|                                      | 560   | EKMH251VSN561MR35T | 30 × 35   | R35 | 0.296 | 1.79 |
|                                      | 680   | EKMH251VSN681MR40T | 30 × 40   | R40 | 0.244 | 2.0  |
|                                      | 820   | EKMH251VSN821MR45T | 30 × 45   | R45 | 0.202 | 2.16 |
|                                      | 330   | EKMH251VSN331MA20T | 35 × 20   | A20 | 0.753 | 1.18 |
|                                      | 390   | EKMH251VSN391MA25T | 35 × 25   | A25 | 0.638 | 1.43 |
|                                      | 470   | EKMH251VSN471MA25T | 35 × 25   | A25 | 0.529 | 1.57 |
|                                      | 560   | EKMH251VSN561MA30T | 35 × 30   | A30 | 0.444 | 1.79 |
|                                      | 680   | EKMH251VSN681MA30T | 35 × 30   | A30 | 0.366 | 1.97 |
|                                      | 820   | EKMH251VSN821MA35T | 35 × 35   | A35 | 0.303 | 1.98 |
|                                      | 1,000 | EKMH251VSN102MA40T | 35 × 40   | A40 | 0.249 | 2.3  |
|                                      | 1,200 | EKMH251VSN122MA45T | 35 × 45   | A45 | 0.207 | 2.43 |
|                                      | 1,800 | EKMH251VSN182MA63T | 35 × 63   | A63 | 0.138 | 3.27 |
|                                      | 2,200 | EKMH251VSN222MA80T | 35 × 80   | A80 | 0.113 | 3.87 |
|                                      | 680   | EKMH251VQT681MB25T | 40 × 25   | B25 | 0.366 | 1.65 |
|                                      | 1,000 | EKMH251VQT102MB30T | 40 × 30   | B30 | 0.249 | 2.1  |
|                                      | 1,200 | EKMH251VQT122MB35T | 40 × 35   | B35 | 0.207 | 2.39 |

†For terminal and construction options, refer to the part numbering system for descriptions and codes.

\*Refer to diagram of dimensions for detailed case size specifications.

## Standard Voltage Ratings - Snap Mount

| Rated Voltage (WVDC) | Capacitance (μF) | Global Part Number† | Nominal Case Size* D × L (mm) | Case Size Code | Maximum ESR (Ω) at +20°C, 120Hz | Rated Ripple Current (A rms) at +105°C, 120Hz |
|----------------------|------------------|---------------------|-------------------------------|----------------|---------------------------------|-----------------------------------------------|
|----------------------|------------------|---------------------|-------------------------------|----------------|---------------------------------|-----------------------------------------------|

|                                            |       |                    |         |     |       |      |
|--------------------------------------------|-------|--------------------|---------|-----|-------|------|
| <b>250 Volts</b><br><b>300 Volts Surge</b> | 1,500 | EKMH251VQT152MB40T | 40 × 40 | B40 | 0.166 | 2.75 |
|                                            | 1,800 | EKMH251VQT182MB50T | 40 × 50 | B50 | 0.138 | 3.2  |
|                                            | 2,200 | EKMH251VQT222MB63T | 40 × 63 | B63 | 0.113 | 3.78 |
|                                            | 3,300 | EKMH251VQT332MB80T | 40 × 80 | B80 | 0.075 | 5.03 |

|                                            |       |                    |           |     |       |      |
|--------------------------------------------|-------|--------------------|-----------|-----|-------|------|
| <b>315 Volts</b><br><b>365 Volts Surge</b> | 68    | EKMH3B1VSN680MP20T | 22 × 20   | P20 | 3.656 | 0.44 |
|                                            | 82    | EKMH3B1VSN820MP25T | 22 × 25   | P25 | 3.032 | 0.64 |
|                                            | 100   | EKMH3B1VSN101MP30T | 22 × 30   | P30 | 2.486 | 0.68 |
|                                            | 120   | EKMH3B1VSN121MP30T | 22 × 30   | P30 | 2.072 | 0.75 |
|                                            | 150   | EKMH3B1VSN151MP35T | 22 × 35   | P35 | 1.658 | 0.82 |
|                                            | 180   | EKMH3B1VSN181MP40T | 22 × 40   | P40 | 1.381 | 0.91 |
|                                            | 220   | EKMH3B1VSN221MP45T | 22 × 45   | P45 | 1.13  | 1.02 |
|                                            | 270   | EKMH3B1VSN271MP50T | 22 × 50   | P50 | 0.921 | 1.16 |
|                                            | 100   | EKMH3B1VSN101MQ20T | 25.4 × 20 | Q20 | 2.486 | 0.56 |
|                                            | 120   | EKMH3B1VSN121MQ25T | 25.4 × 25 | Q25 | 2.072 | 0.76 |
|                                            | 150   | EKMH3B1VSN151MQ30T | 25.4 × 30 | Q30 | 1.658 | 0.8  |
|                                            | 180   | EKMH3B1VSN181MQ30T | 25.4 × 30 | Q30 | 1.381 | 0.88 |
|                                            | 220   | EKMH3B1VSN221MQ35T | 25.4 × 35 | Q35 | 1.13  | 1.02 |
|                                            | 270   | EKMH3B1VSN271MQ40T | 25.4 × 40 | Q40 | 0.921 | 1.15 |
|                                            | 330   | EKMH3B1VSN331MQ50T | 25.4 × 50 | Q50 | 0.753 | 1.33 |
|                                            | 120   | EKMH3B1VSN121MR20T | 30 × 20   | R20 | 2.072 | 0.65 |
|                                            | 150   | EKMH3B1VSN151MR25T | 30 × 25   | R25 | 1.658 | 0.82 |
|                                            | 180   | EKMH3B1VSN181MR25T | 30 × 25   | R25 | 1.381 | 0.9  |
|                                            | 220   | EKMH3B1VSN221MR30T | 30 × 30   | R30 | 1.13  | 1.02 |
|                                            | 270   | EKMH3B1VSN271MR35T | 30 × 35   | R35 | 0.921 | 1.17 |
|                                            | 330   | EKMH3B1VSN331MR35T | 30 × 35   | R35 | 0.753 | 1.3  |
|                                            | 390   | EKMH3B1VSN391MR40T | 30 × 40   | R40 | 0.638 | 1.46 |
|                                            | 470   | EKMH3B1VSN471MR50T | 30 × 50   | R50 | 0.529 | 1.7  |
|                                            | 180   | EKMH3B1VSN181MA20T | 35 × 20   | A20 | 1.381 | 0.83 |
|                                            | 220   | EKMH3B1VSN221MA25T | 35 × 25   | A25 | 1.13  | 1.03 |
|                                            | 270   | EKMH3B1VSN271MA25T | 35 × 25   | A25 | 0.921 | 1.15 |
|                                            | 330   | EKMH3B1VSN331MA30T | 35 × 30   | A30 | 0.753 | 1.32 |
|                                            | 390   | EKMH3B1VSN391MA35T | 35 × 35   | A35 | 0.638 | 1.47 |
|                                            | 470   | EKMH3B1VSN471MA40T | 35 × 40   | A40 | 0.529 | 1.69 |
|                                            | 560   | EKMH3B1VSN561MA45T | 35 × 45   | A45 | 0.444 | 1.9  |
|                                            | 680   | EKMH3B1VSN681MA50T | 35 × 50   | A50 | 0.366 | 2.15 |
|                                            | 1,000 | EKMH3B1VSN102MA63T | 35 × 63   | A63 | 0.249 | 2.82 |
|                                            | 1,200 | EKMH3B1VSN122MA80T | 35 × 80   | A80 | 0.207 | 3.3  |
|                                            | 330   | EKMH3B1VQT331MB25T | 40 × 25   | B25 | 0.753 | 1.33 |
|                                            | 470   | EKMH3B1VQT471MB30T | 40 × 30   | B30 | 0.529 | 1.66 |
|                                            | 560   | EKMH3B1VQT561MB35T | 40 × 35   | B35 | 0.444 | 1.88 |
|                                            | 680   | EKMH3B1VQT681MB40T | 40 × 40   | B40 | 0.366 | 2.14 |
|                                            | 1,000 | EKMH3B1VQT102MB50T | 40 × 50   | B50 | 0.249 | 2.75 |
|                                            | 1,500 | EKMH3B1VQT152MB63T | 40 × 63   | B63 | 0.166 | 3.6  |
|                                            | 1,800 | EKMH3B1VQT182MB80T | 40 × 80   | B80 | 0.138 | 4.29 |

|                                            |     |                    |           |     |       |      |
|--------------------------------------------|-----|--------------------|-----------|-----|-------|------|
| <b>350 Volts</b><br><b>400 Volts Surge</b> | 56  | EKMH351VSN560MP20T | 22 × 20   | P20 | 4.44  | 0.4  |
|                                            | 68  | EKMH351VSN680MP25T | 22 × 25   | P25 | 3.656 | 0.51 |
|                                            | 82  | EKMH351VSN820MP25T | 22 × 25   | P25 | 3.032 | 0.56 |
|                                            | 100 | EKMH351VSN101MP30T | 22 × 30   | P30 | 2.486 | 0.69 |
|                                            | 120 | EKMH351VSN121MP35T | 22 × 35   | P35 | 2.072 | 0.75 |
|                                            | 150 | EKMH351VSN151MP40T | 22 × 40   | P40 | 1.658 | 0.82 |
|                                            | 180 | EKMH351VSN181MP45T | 22 × 45   | P45 | 1.381 | 0.92 |
|                                            | 220 | EKMH351VSN221MP50T | 22 × 50   | P50 | 1.13  | 1.05 |
|                                            | 82  | EKMH351VSN820MQ20T | 25.4 × 20 | Q20 | 3.032 | 0.51 |
|                                            | 100 | EKMH351VSN101MQ25T | 25.4 × 25 | Q25 | 2.486 | 0.69 |
|                                            | 120 | EKMH351VSN121MQ25T | 25.4 × 25 | Q25 | 2.072 | 0.75 |
|                                            | 150 | EKMH351VSN151MQ30T | 25.4 × 30 | Q30 | 1.658 | 0.83 |
|                                            | 180 | EKMH351VSN181MQ35T | 25.4 × 35 | Q35 | 1.381 | 0.92 |

† For terminal and construction options, refer to the part numbering system for descriptions and codes.

\* Refer to diagram of dimensions for detailed case size specifications.

## Standard Voltage Ratings - Snap Mount

| Rated Voltage (VWDC) | Capacitance (μF) | Global Part Number† | Nominal Case Size* D × L (mm) | Case Size Code | Maximum ESR (Ω) at +20°C, 120Hz | Rated Ripple Current (A rms) at +105°C, 120Hz |
|----------------------|------------------|---------------------|-------------------------------|----------------|---------------------------------|-----------------------------------------------|
|----------------------|------------------|---------------------|-------------------------------|----------------|---------------------------------|-----------------------------------------------|

|                                      |       |                    |           |     |       |      |
|--------------------------------------|-------|--------------------|-----------|-----|-------|------|
| <b>350 Volts<br/>400 Volts Surge</b> | 220   | EKMH351VSN221MQ40T | 25.4 × 40 | Q40 | 1.13  | 1.04 |
|                                      | 270   | EKMH351VSN271MQ45T | 25.4 × 45 | Q45 | 0.921 | 1.18 |
|                                      | 100   | EKMH351VSN101MR20T | 30 × 20   | R20 | 2.486 | 0.59 |
|                                      | 120   | EKMH351VSN121MR20T | 30 × 20   | R20 | 2.072 | 0.64 |
|                                      | 150   | EKMH351VSN151MR25T | 30 × 25   | R25 | 1.658 | 0.83 |
|                                      | 180   | EKMH351VSN181MR25T | 30 × 25   | R25 | 1.381 | 0.91 |
|                                      | 220   | EKMH351VSN221MR30T | 30 × 30   | R30 | 1.13  | 1.02 |
|                                      | 270   | EKMH351VSN271MR35T | 30 × 35   | R35 | 0.921 | 1.17 |
|                                      | 330   | EKMH351VSN331MR40T | 30 × 40   | R40 | 0.753 | 1.34 |
|                                      | 390   | EKMH351VSN391MR45T | 30 × 45   | R45 | 0.638 | 1.51 |
|                                      | 150   | EKMH351VSN151MA20T | 35 × 20   | A20 | 1.658 | 0.76 |
|                                      | 180   | EKMH351VSN181MA25T | 35 × 25   | A25 | 1.381 | 0.94 |
|                                      | 220   | EKMH351VSN221MA25T | 35 × 25   | A25 | 1.13  | 1.04 |
|                                      | 270   | EKMH351VSN271MA30T | 35 × 30   | A30 | 0.921 | 1.2  |
|                                      | 330   | EKMH351VSN331MA30T | 35 × 30   | A30 | 0.753 | 1.33 |
|                                      | 390   | EKMH351VSN391MA35T | 35 × 35   | A35 | 0.638 | 1.47 |
|                                      | 470   | EKMH351VSN471MA40T | 35 × 40   | A40 | 0.529 | 1.69 |
|                                      | 560   | EKMH351VSN561MA45T | 35 × 45   | A45 | 0.444 | 1.9  |
|                                      | 1,000 | EKMH351VSN102MA63T | 35 × 63   | A63 | 0.249 | 2.82 |
|                                      | 1,200 | EKMH351VSN122MA80T | 35 × 80   | A80 | 0.207 | 3.3  |
|                                      | 330   | EKMH351VQT331MB25T | 40 × 25   | B25 | 0.753 | 1.33 |
|                                      | 470   | EKMH351VQT471MB30T | 40 × 30   | B30 | 0.529 | 1.66 |
|                                      | 560   | EKMH351VQT561MB35T | 40 × 35   | B35 | 0.444 | 1.88 |
|                                      | 680   | EKMH351VQT681MB40T | 40 × 40   | B40 | 0.366 | 2.14 |
|                                      | 1,000 | EKMH351VQT102MB50T | 40 × 50   | B50 | 0.249 | 2.75 |
|                                      | 1,200 | EKMH351VQT122MB63T | 40 × 63   | B63 | 0.207 | 3.22 |
|                                      | 1,800 | EKMH351VQT182MB80T | 40 × 80   | B80 | 0.138 | 4.29 |

|                                      |     |                    |           |     |       |      |
|--------------------------------------|-----|--------------------|-----------|-----|-------|------|
| <b>400 Volts<br/>450 Volts Surge</b> | 47  | EKMH401VSN470MP20T | 22 × 20   | P20 | 5.29  | 0.37 |
|                                      | 56  | EKMH401VSN560MP20T | 22 × 20   | P20 | 4.44  | 0.4  |
|                                      | 68  | EKMH401VSN680MP25T | 22 × 25   | P25 | 3.656 | 0.51 |
|                                      | 82  | EKMH401VSN820MP30T | 22 × 30   | P30 | 3.032 | 0.58 |
|                                      | 100 | EKMH401VSN101MP30T | 22 × 30   | P30 | 2.486 | 0.64 |
|                                      | 120 | EKMH401VSN121MP35T | 22 × 35   | P35 | 2.072 | 0.72 |
|                                      | 150 | EKMH401VSN151MP40T | 22 × 40   | P40 | 1.658 | 0.82 |
|                                      | 180 | EKMH401VSN181MP50T | 22 × 50   | P50 | 1.381 | 0.95 |
|                                      | 68  | EKMH401VSN680MQ20T | 25.4 × 20 | Q20 | 3.656 | 0.46 |
|                                      | 82  | EKMH401VSN820MQ25T | 25.4 × 25 | Q25 | 3.032 | 0.64 |
|                                      | 100 | EKMH401VSN101MQ25T | 25.4 × 25 | Q25 | 2.486 | 0.67 |
|                                      | 120 | EKMH401VSN121MQ30T | 25.4 × 30 | Q30 | 2.072 | 0.72 |
|                                      | 150 | EKMH401VSN151MQ35T | 25.4 × 35 | Q35 | 1.658 | 0.84 |
|                                      | 180 | EKMH401VSN181MQ40T | 25.4 × 40 | Q40 | 1.381 | 0.94 |
|                                      | 220 | EKMH401VSN221MQ45T | 25.4 × 45 | Q45 | 1.13  | 1.07 |
|                                      | 270 | EKMH401VSN271MQ50T | 25.4 × 50 | Q50 | 0.921 | 1.21 |
|                                      | 100 | EKMH401VSN101MR20T | 30 × 20   | R20 | 2.486 | 0.59 |
|                                      | 120 | EKMH401VSN121MR25T | 30 × 25   | R25 | 2.072 | 0.76 |
|                                      | 150 | EKMH401VSN151MR25T | 30 × 25   | R25 | 1.658 | 0.84 |
|                                      | 180 | EKMH401VSN181MR30T | 30 × 30   | R30 | 1.381 | 0.92 |
|                                      | 220 | EKMH401VSN221MR35T | 30 × 35   | R35 | 1.13  | 1.06 |
|                                      | 270 | EKMH401VSN271MR40T | 30 × 40   | R40 | 0.921 | 1.21 |
|                                      | 330 | EKMH401VSN331MR45T | 30 × 45   | R45 | 0.753 | 1.39 |
|                                      | 390 | EKMH401VSN391MR50T | 30 × 50   | R50 | 0.638 | 1.55 |
|                                      | 150 | EKMH401VSN151MA20T | 35 × 20   | A20 | 1.658 | 0.76 |
|                                      | 180 | EKMH401VSN181MA25T | 35 × 25   | A25 | 1.381 | 0.94 |
|                                      | 220 | EKMH401VSN221MA30T | 35 × 30   | A30 | 1.13  | 1.08 |
|                                      | 270 | EKMH401VSN271MA30T | 35 × 30   | A30 | 0.921 | 1.2  |
|                                      | 330 | EKMH401VSN331MA35T | 35 × 35   | A35 | 0.753 | 1.35 |
|                                      | 390 | EKMH401VSN391MA40T | 35 × 40   | A40 | 0.638 | 1.54 |
|                                      | 470 | EKMH401VSN471MA45T | 35 × 45   | A45 | 0.529 | 1.74 |

†For terminal and construction options, refer to the part numbering system for descriptions and codes.

\*Refer to diagram of dimensions for detailed case size specifications.

## Standard Voltage Ratings - Snap Mount

| Rated Voltage (WVDC) | Capacitance (μF) | Global Part Number† | Nominal Case Size* D × L (mm) | Case Size Code | Maximum ESR (Ω) at +20°C, 120Hz | Rated Ripple Current (A rms) at +105°C, 120Hz |
|----------------------|------------------|---------------------|-------------------------------|----------------|---------------------------------|-----------------------------------------------|
|----------------------|------------------|---------------------|-------------------------------|----------------|---------------------------------|-----------------------------------------------|

|                                      |       |                    |         |     |       |      |
|--------------------------------------|-------|--------------------|---------|-----|-------|------|
| <b>400 Volts<br/>450 Volts Surge</b> | 820   | EKMH401VSN821MA63T | 35 × 63 | A63 | 0.303 | 2.55 |
|                                      | 1,000 | EKMH401VSN102MA80T | 35 × 80 | A80 | 0.249 | 3.01 |
|                                      | 270   | EKMH401VQT271MB25T | 40 × 25 | B25 | 0.921 | 1.2  |
|                                      | 390   | EKMH401VQT391MB30T | 40 × 30 | B30 | 0.638 | 1.51 |
|                                      | 470   | EKMH401VQT471MB35T | 40 × 35 | B35 | 0.529 | 1.72 |
|                                      | 560   | EKMH401VQT561MB40T | 40 × 40 | B40 | 0.444 | 1.94 |
|                                      | 820   | EKMH401VQT821MB50T | 40 × 50 | B50 | 0.303 | 2.49 |
|                                      | 1,200 | EKMH401VQT122MB63T | 40 × 63 | B63 | 0.207 | 3.22 |
|                                      | 1,500 | EKMH401VQT152MB80T | 40 × 80 | B80 | 0.166 | 3.92 |

|                                      |       |                    |           |     |       |      |
|--------------------------------------|-------|--------------------|-----------|-----|-------|------|
| <b>450 Volts<br/>500 Volts Surge</b> | 56    | EKMH451VSN560MP25T | 22 × 25   | P25 | 4.44  | 0.4  |
|                                      | 68    | EKMH451VSN680MP30T | 22 × 30   | P30 | 3.656 | 0.5  |
|                                      | 82    | EKMH451VSN820MP35T | 22 × 35   | P35 | 3.032 | 0.56 |
|                                      | 100   | EKMH451VSN101MP40T | 22 × 40   | P40 | 2.486 | 0.64 |
|                                      | 120   | EKMH451VSN121MP45T | 22 × 45   | P45 | 2.072 | 0.72 |
|                                      | 150   | EKMH451VSN151MP50T | 22 × 50   | P50 | 1.658 | 0.79 |
|                                      | 68    | EKMH451VSN680MQ25T | 25.4 × 25 | Q25 | 3.656 | 0.5  |
|                                      | 82    | EKMH451VSN820MQ25T | 25.4 × 25 | Q25 | 3.032 | 0.55 |
|                                      | 100   | EKMH451VSN101MQ30T | 25.4 × 30 | Q30 | 2.486 | 0.57 |
|                                      | 120   | EKMH451VSN121MQ35T | 25.4 × 35 | Q35 | 2.072 | 0.71 |
|                                      | 150   | EKMH451VSN151MQ40T | 25.4 × 40 | Q40 | 1.658 | 0.75 |
|                                      | 180   | EKMH451VSN181MQ45T | 25.4 × 45 | Q45 | 1.381 | 0.84 |
|                                      | 220   | EKMH451VSN221MQ50T | 25.4 × 50 | Q50 | 1.13  | 0.98 |
|                                      | 100   | EKMH451VSN101MR25T | 30 × 25   | R25 | 2.486 | 0.64 |
|                                      | 120   | EKMH451VSN121MR25T | 30 × 25   | R25 | 2.072 | 0.7  |
|                                      | 150   | EKMH451VSN151MR30T | 30 × 30   | R30 | 1.658 | 0.74 |
|                                      | 180   | EKMH451VSN181MR35T | 30 × 35   | R35 | 1.381 | 0.87 |
|                                      | 220   | EKMH451VSN221MR40T | 30 × 40   | R40 | 1.13  | 0.98 |
|                                      | 270   | EKMH451VSN271MR45T | 30 × 45   | R45 | 0.921 | 1.15 |
|                                      | 330   | EKMH451VSN331MR50T | 30 × 50   | R50 | 0.753 | 1.38 |
|                                      | 150   | EKMH451VSN151MA25T | 35 × 25   | A25 | 1.658 | 0.75 |
|                                      | 180   | EKMH451VSN181MA30T | 35 × 30   | A30 | 1.381 | 0.9  |
|                                      | 220   | EKMH451VSN221MA30T | 35 × 30   | A30 | 1.13  | 1.0  |
|                                      | 270   | EKMH451VSN271MA35T | 35 × 35   | A35 | 0.921 | 1.17 |
|                                      | 330   | EKMH451VSN331MA40T | 35 × 40   | A40 | 0.753 | 1.38 |
|                                      | 390   | EKMH451VSN391MA45T | 35 × 45   | A45 | 0.638 | 1.55 |
|                                      | 470   | EKMH451VSN471MA50T | 35 × 50   | A50 | 0.529 | 1.72 |
|                                      | 560   | EKMH451VSN561MA63T | 35 × 63   | A63 | 0.444 | 2.11 |
|                                      | 820   | EKMH451VSN821MA80T | 35 × 80   | A80 | 0.303 | 2.73 |
|                                      | 220   | EKMH451VQT221MB25T | 40 × 25   | B25 | 1.13  | 1.09 |
|                                      | 270   | EKMH451VQT271MB30T | 40 × 30   | B30 | 0.921 | 1.26 |
|                                      | 390   | EKMH451VQT391MB35T | 40 × 35   | B35 | 0.638 | 1.57 |
|                                      | 470   | EKMH451VQT471MB40T | 40 × 40   | B40 | 0.529 | 1.78 |
|                                      | 560   | EKMH451VQT561MB50T | 40 × 50   | B50 | 0.444 | 2.06 |
|                                      | 820   | EKMH451VQT821MB63T | 40 × 63   | B63 | 0.303 | 2.66 |
|                                      | 1,200 | EKMH451VQT122MB80T | 40 × 80   | B80 | 0.207 | 3.5  |

† For terminal and construction options, refer to the part numbering system for descriptions and codes.

\* Refer to diagram of dimensions for detailed case size specifications.