

- Snap Mount
- Large Capacitance
- High CV
- High Ripple
- RoHS Compliant
- +85°C Maximum Temperature



The SMH series capacitors are the standard +85°C, large capacitance, snap-in capacitors from United Chemi-Con. The load life for the SMH series is 2,000 hours at +85°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 SMH capacitors are available in 2 or 4-pin snap-in styles and 4 or 5-pin straight terminals. The SMH series is RoHS compliant offering Pb-free construction.

The standard SMH 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: 56 to 270,000µF.
- Voltage range: 6.3 to 450VDC.
- Category temperature range: -40°C to +85°C for 6.3 to 100V; -25°C to +85°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 +85°C with the rated ripple current applied.

# SMH Series

## SMH Specifications - Snap Mount

| Item                               | Characteristics  |                   |        |        |         |         |         |         |         |                     |         |                         |       |      |       |        |         |                     |      |       |      |      |      |         |      |      |      |      |      |      |          |      |      |      |      |      |      |          |      |      |      |      |      |      |
|------------------------------------|--|-------------------|--------|--------|---------|---------|---------|---------|---------|---------------------|---------|-------------------------|-------|------|-------|--------|---------|---------------------|------|-------|------|------|------|---------|------|------|------|------|------|------|----------|------|------|------|------|------|------|----------|------|------|------|------|------|------|
| Category Temperature Range         | - 40 to +85°C for 6.3 to 100VDC; - 25 to +85°C for 160 to 450VDC   |                   |        |        |         |         |         |         |         |                     |         |                         |       |      |       |        |         |                     |      |       |      |      |      |         |      |      |      |      |      |      |          |      |      |      |      |      |      |          |      |      |      |      |      |      |
| Rated Voltage Range                | 6.3 to 450VDC  |                   |        |        |         |         |         |         |         |                     |         |                         |       |      |       |        |         |                     |      |       |      |      |      |         |      |      |      |      |      |      |          |      |      |      |      |      |      |          |      |      |      |      |      |      |
| Capacitance Range                  | 56 to 270,000 $\mu$ F  |                   |        |        |         |         |         |         |         |                     |         |                         |       |      |       |        |         |                     |      |       |      |      |      |         |      |      |      |      |      |      |          |      |      |      |      |      |      |          |      |      |      |      |      |      |
| Capacitance Tolerance              | $\pm$ 20% (M) at +20°C, 120Hz  |                   |        |        |         |         |         |         |         |                     |         |                         |       |      |       |        |         |                     |      |       |      |      |      |         |      |      |      |      |      |      |          |      |      |      |      |      |      |          |      |      |      |      |      |      |
| Leakage Current                    | I = 0.02CV ( $\mu$ A) or 3mA, whichever is smaller, after 5 minutes at +20°C.<br>Where I = Max. leakage current ( $\mu$ A), C = Nominal capacitance ( $\mu$ F) and V = Rated voltage (V)   |                   |        |        |         |         |         |         |         |                     |         |                         |       |      |       |        |         |                     |      |       |      |      |      |         |      |      |      |      |      |      |          |      |      |      |      |      |      |          |      |      |      |      |      |      |
| Dissipation Factor (Tan $\delta$ ) | At +20°C, 120Hz<br><table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63-100</th> <th>160-250</th> <th>315-450</th> </tr> </thead> <tbody> <tr> <td>Tan <math>\delta</math> (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> </tbody> </table> <p>*0.15 maximum for 35mm and 40mm diameter.<br/>† For rated voltages <math>\leq</math> 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 $\delta$ (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 $\delta$ (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.<br><table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>6.3-16</th> <th>25</th> <th>35</th> <th>50, 63</th> <th>80, 100</th> <th>160-400</th> <th>450</th> </tr> </thead> <tbody> <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> </tbody> </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)<br><table border="1"> <thead> <tr> <th>+45°C</th> <th>+60°C</th> <th>+70°C</th> <th>+85°C</th> </tr> </thead> <tbody> <tr> <td>1.73</td> <td>1.50</td> <td>1.32</td> <td>1.00</td> </tr> </tbody> </table><br>Frequency (Hz)<br><table border="1"> <thead> <tr> <th>DC Rated Voltage</th> <th>50Hz</th> <th>120Hz</th> <th>300Hz</th> <th>1kHz</th> <th>10kHz</th> <th>100kHz</th> </tr> </thead> <tbody> <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> </tbody> </table> | +45°C             | +60°C  | +70°C  | +85°C   | 1.73    | 1.50    | 1.32    | 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  |        |         |         |         |         |         |                     |         |                         |       |      |       |        |         |                     |      |       |      |      |      |         |      |      |      |      |      |      |          |      |      |      |      |      |      |          |      |      |      |      |      |      |
| 1.73                               | 1.50   | 1.32              | 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 +85°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>Capacitance change: $\leq \pm$ 20% of initial measured value<br>Tan $\delta$ (DF) : $\leq$ 200% of initial specified value<br>Leakage current : $\leq$ 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 +85°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>Capacitance change: $\leq \pm$ 20% of initial measured value<br>Tan $\delta$ (DF) : $\leq$ 150% of initial specified value<br>Leakage current : $\leq$ initial specified value  |                   |        |        |         |         |         |         |         |                     |         |                         |       |      |       |        |         |                     |      |       |      |      |      |         |      |      |      |      |      |      |          |      |      |      |      |      |      |          |      |      |      |      |      |      |

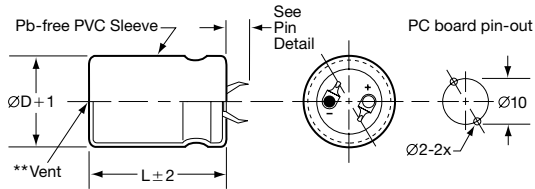
# SMH Series

## Diagram of Dimensions - Snap Mount

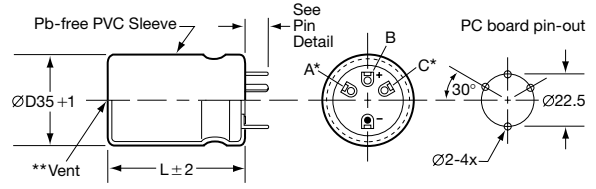
### Snap Mount

Unit: mm

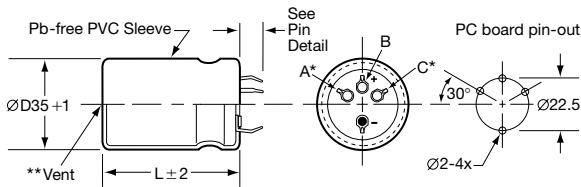
#### Types VSN & VNN $\varnothing 22\text{-}\varnothing 35$



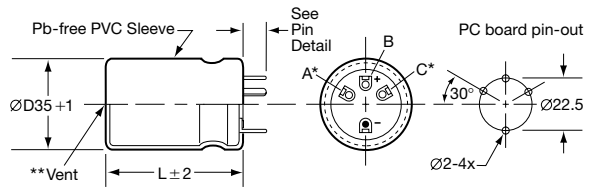
#### Type VRD $\varnothing 35$



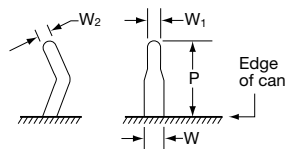
#### Type VND $\varnothing 35$ & $\varnothing 40$



#### Type VQD $\varnothing 35$

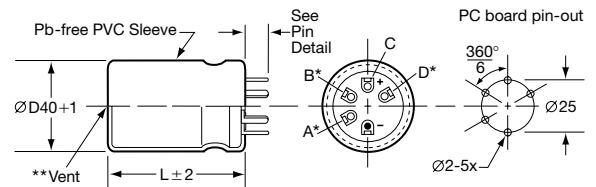


#### VS & VN Pin Dimensions



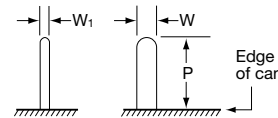
| Type                                       | P         | W         | W <sub>1</sub> | W <sub>2</sub> |
|--|-----------|-----------|----------------|----------------|
| VSN $\varnothing 22\text{-}\varnothing 30$ | 4.0 ± 0.5 | 1.5 ± 0.2 | 1.0            | 1.0            |
| VSN $\varnothing 35$     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

#### Type VQT $\varnothing 40$

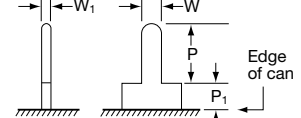


#### VR & VQ Pin Dimensions

##### VR Straight Pin



##### VQ Standoff Pin



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

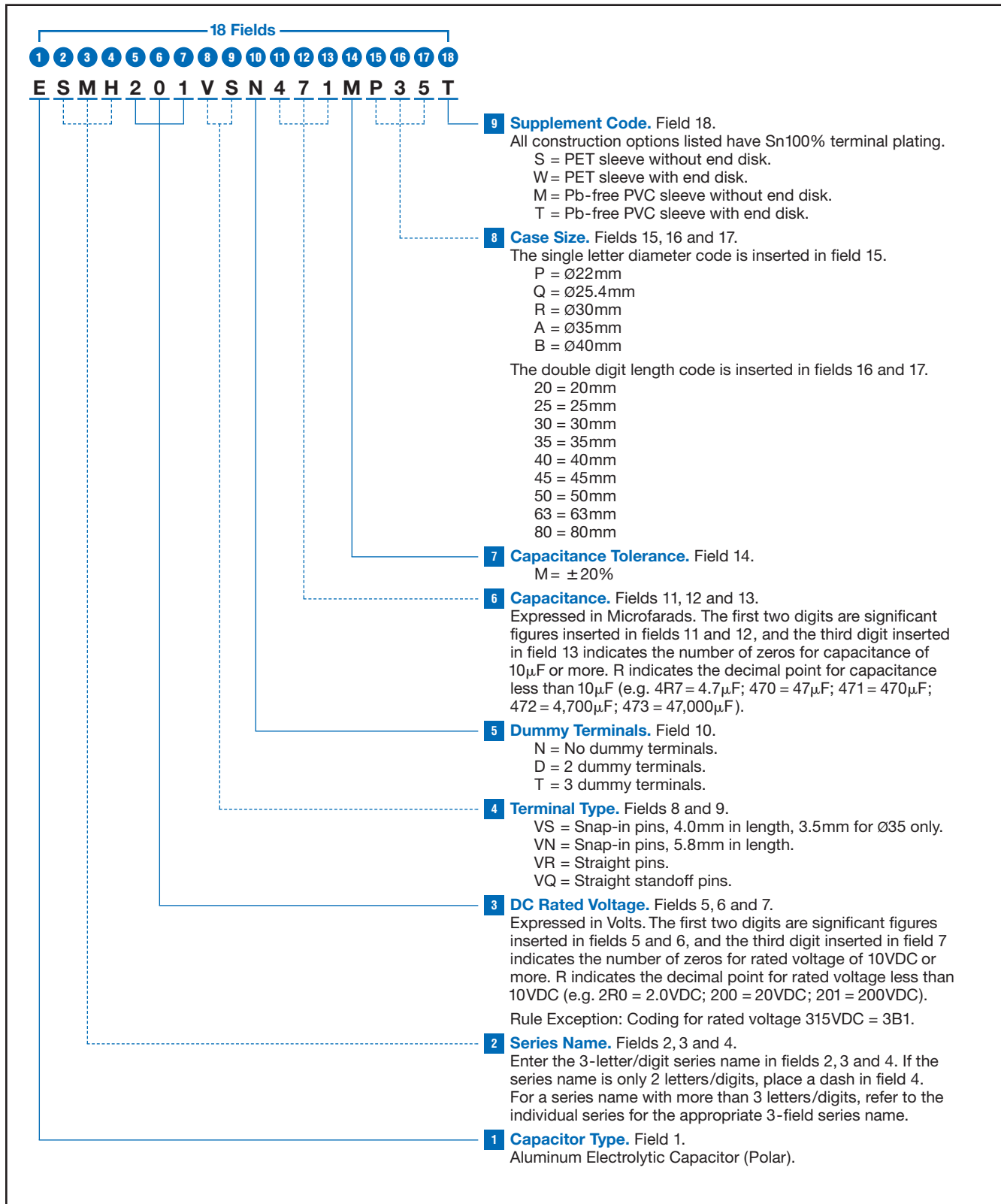
#### CAUTION:

\* 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.

# SMH Series

**Part Numbering System for SMH Series** When ordering, always specify complete 18-field global part number.



# SMH Series

## 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 +85°C, 120Hz |
|------------------------------------|--------------------|---------------------|-------------------------------|----------------|---------------------------------|--|
| <b>6.3 Volts<br/>8 Volts Surge</b> | 15,000             | ESMH6R3VSN153MP25T  | 22 × 25                       | P25            | 0.066                           | 2.44   |
|                                    | 18,000             | ESMH6R3VSN183MP30T  | 22 × 30                       | P30            | 0.055                           | 2.67   |
|                                    | 22,000             | ESMH6R3VSN223MP30T  | 22 × 30                       | P30            | 0.045                           | 3.06   |
|                                    | 27,000             | ESMH6R3VSN273MP35T  | 22 × 35                       | P35            | 0.037                           | 3.49   |
|                                    | 33,000             | ESMH6R3VSN333MP40T  | 22 × 40                       | P40            | 0.03                            | 3.97   |
|                                    | 39,000             | ESMH6R3VSN393MP50T  | 22 × 50                       | P50            | 0.026                           | 4.55   |
|                                    | 18,000             | ESMH6R3VSN183MQ25T  | 25.4 × 25                     | Q25            | 0.055                           | 2.7  |
|                                    | 22,000             | ESMH6R3VSN223MQ25T  | 25.4 × 25                     | Q25            | 0.045                           | 3.07   |
|                                    | 27,000             | ESMH6R3VSN273MQ30T  | 25.4 × 30                     | Q30            | 0.037                           | 3.52   |
|                                    | 33,000             | ESMH6R3VSN333MQ35T  | 25.4 × 35                     | Q35            | 0.03                            | 4.02   |
|                                    | 39,000             | ESMH6R3VSN393MQ40T  | 25.4 × 40                     | Q40            | 0.026                           | 4.5  |
|                                    | 47,000             | ESMH6R3VSN473MQ45T  | 25.4 × 45                     | Q45            | 0.021                           | 5.09   |
|                                    | 56,000             | ESMH6R3VSN563MQ50T  | 25.4 × 50                     | Q50            | 0.018                           | 5.71   |
|                                    | 27,000             | ESMH6R3VSN273MR25T  | 30 × 25                       | R25            | 0.037                           | 3.57   |
|                                    | 33,000             | ESMH6R3VSN333MR25T  | 30 × 25                       | R25            | 0.03                            | 3.95   |
|                                    | 39,000             | ESMH6R3VSN393MR30T  | 30 × 30                       | R30            | 0.026                           | 4.45   |
|                                    | 47,000             | ESMH6R3VSN473MR35T  | 30 × 35                       | R35            | 0.021                           | 5.06   |
|                                    | 56,000             | ESMH6R3VSN563MR40T  | 30 × 40                       | R40            | 0.018                           | 5.7  |
|                                    | 68,000             | ESMH6R3VSN683MR45T  | 30 × 45                       | R45            | 0.015                           | 6.48   |
|                                    | 82,000             | ESMH6R3VSN823MR50T  | 30 × 50                       | R50            | 0.012                           | 7.32   |
|                                    | 39,000             | ESMH6R3VSN393MA25T  | 35 × 25                       | A25            | 0.026                           | 4.51   |
|                                    | 47,000             | ESMH6R3VSN473MA30T  | 35 × 30                       | A30            | 0.021                           | 5.01   |
|                                    | 56,000             | ESMH6R3VSN563MA30T  | 35 × 30                       | A30            | 0.018                           | 5.77   |
|                                    | 68,000             | ESMH6R3VSN683MA35T  | 35 × 35                       | A35            | 0.015                           | 6.42   |
|                                    | 82,000             | ESMH6R3VSN823MA40T  | 35 × 40                       | A40            | 0.012                           | 7.29   |
|                                    | 100,000            | ESMH6R3VSN104MA45T  | 35 × 45                       | A45            | 0.01                            | 8.31   |
|                                    | 150,000            | ESMH6R3VSN154MA63T  | 35 × 63                       | A63            | 0.01                            | 10.91  |
|                                    | 180,000            | ESMH6R3VSN184MA80T  | 35 × 80                       | A80            | 0.009                           | 12.78  |
|                                    | 56,000             | ESMH6R3VQT563MB25T  | 40 × 25                       | B25            | 0.027                           | 5.48   |
|                                    | 82,000             | ESMH6R3VQT823MB30T  | 40 × 30                       | B30            | 0.02                            | 6.94   |
|                                    | 100,000            | ESMH6R3VQT104MB35T  | 40 × 35                       | B35            | 0.017                           | 7.95   |
|                                    | 120,000            | ESMH6R3VQT124MB40T  | 40 × 40                       | B40            | 0.014                           | 8.97   |
| 150,000                            | ESMH6R3VQT154MB50T | 40 × 50             | B50                           | 0.012          | 10.66                           |  |
| 220,000                            | ESMH6R3VQT224MB63T | 40 × 63             | B63                           | 0.009          | 13.79                           |  |
| 270,000                            | ESMH6R3VQT274MB80T | 40 × 80             | B80                           | 0.008          | 16.62                           |  |
| <b>10 Volts<br/>13 Volts Surge</b> | 12,000             | ESMH100VSN123MP25T  | 22 × 25                       | P25            | 0.069                           | 2.39   |
|                                    | 15,000             | ESMH100VSN153MP30T  | 22 × 30                       | P30            | 0.055                           | 2.76   |
|                                    | 18,000             | ESMH100VSN183MP35T  | 22 × 35                       | P35            | 0.046                           | 3.12   |
|                                    | 22,000             | ESMH100VSN223MP40T  | 22 × 40                       | P40            | 0.038                           | 3.55   |
|                                    | 27,000             | ESMH100VSN273MP45T  | 22 × 45                       | P45            | 0.031                           | 4.04   |
|                                    | 33,000             | ESMH100VSN333MP50T  | 22 × 50                       | P50            | 0.025                           | 4.58   |
|                                    | 15,000             | ESMH100VSN153MQ25T  | 25.4 × 25                     | Q25            | 0.055                           | 2.77   |
|                                    | 18,000             | ESMH100VSN183MQ25T  | 25.4 × 25                     | Q25            | 0.046                           | 3.04   |
|                                    | 22,000             | ESMH100VSN223MQ30T  | 25.4 × 30                     | Q30            | 0.038                           | 3.48   |
|                                    | 27,000             | ESMH100VSN273MQ35T  | 25.4 × 35                     | Q35            | 0.031                           | 3.98   |
|                                    | 33,000             | ESMH100VSN333MQ40T  | 25.4 × 40                     | Q40            | 0.025                           | 4.54   |
|                                    | 39,000             | ESMH100VSN393MQ45T  | 25.4 × 45                     | Q45            | 0.021                           | 5.08   |
|                                    | 47,000             | ESMH100VSN473MQ50T  | 25.4 × 50                     | Q50            | 0.018                           | 5.73   |
|                                    | 22,000             | ESMH100VSN223MR25T  | 30 × 25                       | R25            | 0.038                           | 3.53   |
|                                    | 27,000             | ESMH100VSN273MR30T  | 30 × 30                       | R30            | 0.031                           | 3.73   |
|                                    | 33,000             | ESMH100VSN333MR30T  | 30 × 30                       | R30            | 0.025                           | 4.13   |
|                                    | 39,000             | ESMH100VSN393MR35T  | 30 × 35                       | R35            | 0.021                           | 5.05   |
|                                    | 47,000             | ESMH100VSN473MR40T  | 30 × 40                       | R40            | 0.018                           | 5.72   |
|                                    | 56,000             | ESMH100VSN563MR45T  | 30 × 45                       | R45            | 0.015                           | 6.44   |
|                                    | 27,000             | ESMH100VSN273MA25T  | 35 × 25                       | A25            | 0.031                           | 3.73   |
|                                    | 33,000             | ESMH100VSN333MA25T  | 35 × 25                       | A25            | 0.025                           | 4.13   |
|                                    | 39,000             | ESMH100VSN393MA30T  | 35 × 30                       | A30            | 0.021                           | 4.8  |
|                                    | 47,000             | ESMH100VSN473MA30T  | 35 × 30                       | A30            | 0.018                           | 5.27   |
|                                    | 56,000             | ESMH100VSN563MA35T  | 35 × 35                       | A35            | 0.015                           | 6.38   |

† 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.

# SMH Series

## 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 +85°C, 120Hz |
|----------------------|------------------|---------------------|-------------------------------|----------------|---------------------------------|--|
|----------------------|------------------|---------------------|-------------------------------|----------------|---------------------------------|--|

|                                    |                    |                    |         |       |       |       |
|------------------------------------|--------------------|--------------------|---------|-------|-------|-------|
| <b>10 Volts<br/>13 Volts Surge</b> | 68,000             | ESMH100VSN683MA40T | 35 × 40 | A40   | 0.012 | 7.27  |
|                                    | 82,000             | ESMH100VSN823MA50T | 35 × 50 | A50   | 0.01  | 8.49  |
|                                    | 100,000            | ESMH100VSN104MA63T | 35 × 63 | A63   | 0.01  | 8.91  |
|                                    | 150,000            | ESMH100VSN154MA80T | 35 × 80 | A80   | 0.009 | 11.67 |
|                                    | 47,000             | ESMH100VQT473MB25T | 40 × 25 | B25   | 0.026 | 5.02  |
|                                    | 56,000             | ESMH100VQT563MB30T | 40 × 30 | B30   | 0.021 | 5.74  |
|                                    | 68,000             | ESMH100VQT683MB35T | 40 × 35 | B35   | 0.018 | 6.56  |
|                                    | 82,000             | ESMH100VQT823MB40T | 40 × 40 | B40   | 0.015 | 7.42  |
|                                    | 120,000            | ESMH100VQT124MB50T | 40 × 50 | B50   | 0.012 | 9.54  |
|                                    | 150,000            | ESMH100VQT154MB63T | 40 × 63 | B63   | 0.01  | 11.39 |
| 220,000                            | ESMH100VQT224MB80T | 40 × 80            | B80     | 0.008 | 15.0  |       |

|                                    |                    |                    |           |       |       |       |
|------------------------------------|--------------------|--------------------|-----------|-------|-------|-------|
| <b>16 Volts<br/>20 Volts Surge</b> | 8,200              | ESMH160VSN822MP25T | 22 × 25   | P25   | 0.081 | 2.51  |
|                                    | 10,000             | ESMH160VSN103MP25T | 22 × 25   | P25   | 0.066 | 2.77  |
|                                    | 12,000             | ESMH160VSN123MP30T | 22 × 30   | P30   | 0.055 | 2.86  |
|                                    | 15,000             | ESMH160VSN153MP35T | 22 × 35   | P35   | 0.044 | 3.29  |
|                                    | 18,000             | ESMH160VSN183MP40T | 22 × 40   | P40   | 0.037 | 3.72  |
|                                    | 22,000             | ESMH160VSN223MP50T | 22 × 50   | P50   | 0.03  | 4.37  |
|                                    | 12,000             | ESMH160VSN123MQ25T | 25.4 × 25 | Q25   | 0.055 | 2.95  |
|                                    | 15,000             | ESMH160VSN153MQ30T | 25.4 × 30 | Q30   | 0.044 | 3.46  |
|                                    | 18,000             | ESMH160VSN183MQ35T | 25.4 × 35 | Q35   | 0.037 | 3.98  |
|                                    | 22,000             | ESMH160VSN223MQ40T | 25.4 × 40 | Q40   | 0.03  | 4.26  |
|                                    | 27,000             | ESMH160VSN273MQ45T | 25.4 × 45 | Q45   | 0.025 | 4.72  |
|                                    | 33,000             | ESMH160VSN333MQ50T | 25.4 × 50 | Q50   | 0.02  | 5.33  |
|                                    | 15,000             | ESMH160VSN153MR25T | 30 × 25   | R25   | 0.044 | 3.66  |
|                                    | 18,000             | ESMH160VSN183MR25T | 30 × 25   | R25   | 0.037 | 4.0   |
|                                    | 22,000             | ESMH160VSN223MR30T | 30 × 30   | R30   | 0.03  | 4.21  |
|                                    | 27,000             | ESMH160VSN273MR35T | 30 × 35   | R35   | 0.025 | 4.82  |
|                                    | 33,000             | ESMH160VSN333MR40T | 30 × 40   | R40   | 0.02  | 5.36  |
|                                    | 39,000             | ESMH160VSN393MR45T | 30 × 45   | R45   | 0.017 | 6.01  |
|                                    | 47,000             | ESMH160VSN473MR50T | 30 × 50   | R50   | 0.014 | 6.79  |
|                                    | 22,000             | ESMH160VSN223MA25T | 35 × 25   | A25   | 0.03  | 4.15  |
|                                    | 27,000             | ESMH160VSN273MA30T | 35 × 30   | A30   | 0.025 | 4.65  |
|                                    | 33,000             | ESMH160VSN333MA30T | 35 × 30   | A30   | 0.02  | 5.15  |
|                                    | 39,000             | ESMH160VSN393MA35T | 35 × 35   | A35   | 0.017 | 5.95  |
|                                    | 47,000             | ESMH160VSN473MA40T | 35 × 40   | A40   | 0.014 | 6.76  |
|                                    | 56,000             | ESMH160VSN563MA45T | 35 × 45   | A45   | 0.012 | 7.62  |
|                                    | 68,000             | ESMH160VSN683MA50T | 35 × 50   | A50   | 0.01  | 8.63  |
|                                    | 82,000             | ESMH160VSN823MA63T | 35 × 63   | A63   | 0.011 | 9.88  |
|                                    | 100,000            | ESMH160VSN104MA80T | 35 × 80   | A80   | 0.009 | 11.67 |
|                                    | 33,000             | ESMH160VQT333MB25T | 40 × 25   | B25   | 0.027 | 5.15  |
|                                    | 39,000             | ESMH160VQT393MB30T | 40 × 30   | B30   | 0.022 | 5.86  |
|                                    | 47,000             | ESMH160VQT473MB35T | 40 × 35   | B35   | 0.019 | 6.68  |
|                                    | 68,000             | ESMH160VQT683MB40T | 40 × 40   | B40   | 0.015 | 8.27  |
|                                    | 82,000             | ESMH160VQT823MB50T | 40 × 50   | B50   | 0.012 | 9.66  |
| 100,000                            | ESMH160VQT104MB63T | 40 × 63            | B63       | 0.01  | 11.39 |       |
| 150,000                            | ESMH160VQT154MB80T | 40 × 80            | B80       | 0.008 | 15.17 |       |

|                                    |        |                    |           |     |       |      |
|------------------------------------|--------|--------------------|-----------|-----|-------|------|
| <b>25 Volts<br/>32 Volts Surge</b> | 5,600  | ESMH250VSN562MP25T | 22 × 25   | P25 | 0.089 | 2.21 |
|                                    | 6,800  | ESMH250VSN682MP30T | 22 × 30   | P30 | 0.073 | 2.4  |
|                                    | 8,200  | ESMH250VSN822MP35T | 22 × 35   | P35 | 0.061 | 2.72 |
|                                    | 10,000 | ESMH250VSN103MP40T | 22 × 40   | P40 | 0.05  | 3.09 |
|                                    | 12,000 | ESMH250VSN123MP45T | 22 × 45   | P45 | 0.041 | 3.48 |
|                                    | 15,000 | ESMH250VSN153MP50T | 22 × 50   | P50 | 0.033 | 4.0  |
|                                    | 6,800  | ESMH250VSN682MQ25T | 25.4 × 25 | Q25 | 0.073 | 2.56 |
|                                    | 8,200  | ESMH250VSN822MQ25T | 25.4 × 25 | Q25 | 0.061 | 2.8  |
|                                    | 10,000 | ESMH250VSN103MQ30T | 25.4 × 30 | Q30 | 0.05  | 3.12 |
|                                    | 12,000 | ESMH250VSN123MQ35T | 25.4 × 35 | Q35 | 0.041 | 3.43 |
|                                    | 15,000 | ESMH250VSN153MQ40T | 25.4 × 40 | Q40 | 0.033 | 3.95 |
|                                    | 18,000 | ESMH250VSN183MQ45T | 25.4 × 45 | Q45 | 0.028 | 4.45 |

† 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.



# SMH Series

## 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 +85°C, 120Hz |
|--|--------------------|---------------------|-------------------------------|----------------|---------------------------------|--|
| <b>25 Volts</b><br><b>32 Volts Surge</b> | 10,000             | ESMH250VSN103MR25T  | 30 × 25                       | R25            | 0.05                            | 3.21   |
|  | 12,000             | ESMH250VSN123MR30T  | 30 × 30                       | R30            | 0.041                           | 3.86   |
|  | 15,000             | ESMH250VSN153MR30T  | 30 × 30                       | R30            | 0.033                           | 4.0  |
|  | 18,000             | ESMH250VSN183MR35T  | 30 × 35                       | R35            | 0.028                           | 4.46   |
|  | 22,000             | ESMH250VSN223MR45T  | 30 × 45                       | R45            | 0.023                           | 5.21   |
|  | 27,000             | ESMH250VSN273MR50T  | 30 × 50                       | R50            | 0.018                           | 5.94   |
|  | 12,000             | ESMH250VSN123MA25T  | 35 × 25                       | A25            | 0.041                           | 3.54   |
|  | 15,000             | ESMH250VSN153MA25T  | 35 × 25                       | A25            | 0.033                           | 3.95   |
|  | 18,000             | ESMH250VSN183MA30T  | 35 × 30                       | A30            | 0.028                           | 4.63   |
|  | 22,000             | ESMH250VSN223MA35T  | 35 × 35                       | A35            | 0.023                           | 5.16   |
|  | 27,000             | ESMH250VSN273MA40T  | 35 × 40                       | A40            | 0.018                           | 5.92   |
|  | 33,000             | ESMH250VSN333MA45T  | 35 × 45                       | A45            | 0.015                           | 6.75   |
|  | 39,000             | ESMH250VSN393MA50T  | 35 × 50                       | A50            | 0.013                           | 7.56   |
|  | 47,000             | ESMH250VSN473MA63T  | 35 × 63                       | A63            | 0.012                           | 8.63   |
|  | 68,000             | ESMH250VSN683MA80T  | 35 × 80                       | A80            | 0.009                           | 11.11  |
|  | 22,000             | ESMH250VQT223MB25T  | 40 × 25                       | B25            | 0.027                           | 4.86   |
|  | 27,000             | ESMH250VQT273MB30T  | 40 × 30                       | B30            | 0.021                           | 5.63   |
|  | 33,000             | ESMH250VQT333MB35T  | 40 × 35                       | B35            | 0.018                           | 6.46   |
|  | 39,000             | ESMH250VQT393MB40T  | 40 × 40                       | B40            | 0.015                           | 7.24   |
|  | 56,000             | ESMH250VQT563MB50T  | 40 × 50                       | B50            | 0.012                           | 9.21   |
| 68,000                                   | ESMH250VQT683MB63T | 40 × 63             | B63                           | 0.01           | 10.84                           |  |
| 100,000                                  | ESMH250VQT104MB80T | 40 × 80             | B80                           | 0.008          | 14.31                           |  |

|  |        |                    |           |     |       |       |
|--|--------|--------------------|-----------|-----|-------|-------|
| <b>35 Volts</b><br><b>44 Volts Surge</b> | 3,900  | ESMH350VSN392MP25T | 22 × 25   | P25 | 0.106 | 2.22  |
|  | 4,700  | ESMH350VSN472MP30T | 22 × 30   | P30 | 0.088 | 2.41  |
|  | 5,600  | ESMH350VSN562MP35T | 22 × 35   | P35 | 0.074 | 2.75  |
|  | 6,800  | ESMH350VSN682MP40T | 22 × 40   | P40 | 0.061 | 2.8   |
|  | 8,200  | ESMH350VSN822MP45T | 22 × 45   | P45 | 0.051 | 3.47  |
|  | 10,000 | ESMH350VSN103MP50T | 22 × 50   | P50 | 0.041 | 3.57  |
|  | 4,700  | ESMH350VSN472MQ25T | 25.4 × 25 | Q25 | 0.088 | 2.42  |
|  | 5,600  | ESMH350VSN562MQ25T | 25.4 × 25 | Q25 | 0.074 | 2.64  |
|  | 6,800  | ESMH350VSN682MQ30T | 25.4 × 30 | Q30 | 0.061 | 2.74  |
|  | 8,200  | ESMH350VSN822MQ35T | 25.4 × 35 | Q35 | 0.051 | 3.1   |
|  | 10,000 | ESMH350VSN103MQ40T | 25.4 × 40 | Q40 | 0.041 | 3.53  |
|  | 12,000 | ESMH350VSN123MQ45T | 25.4 × 45 | Q45 | 0.035 | 3.98  |
|  | 15,000 | ESMH350VSN153MQ50T | 25.4 × 50 | Q50 | 0.028 | 4.54  |
|  | 6,800  | ESMH350VSN682MR25T | 30 × 25   | R25 | 0.061 | 2.97  |
|  | 8,200  | ESMH350VSN822MR30T | 30 × 30   | R30 | 0.051 | 3.13  |
|  | 10,000 | ESMH350VSN103MR30T | 30 × 30   | R30 | 0.041 | 3.46  |
|  | 12,000 | ESMH350VSN123MR35T | 30 × 35   | R35 | 0.035 | 4.01  |
|  | 15,000 | ESMH350VSN153MR40T | 30 × 40   | R40 | 0.028 | 4.52  |
|  | 18,000 | ESMH350VSN183MR45T | 30 × 45   | R45 | 0.023 | 4.71  |
|  | 22,000 | ESMH350VSN223MR50T | 30 × 50   | R50 | 0.019 | 5.33  |
|  | 8,200  | ESMH350VSN822MA25T | 35 × 25   | A25 | 0.051 | 2.73  |
|  | 10,000 | ESMH350VSN103MA25T | 35 × 25   | A25 | 0.041 | 3.02  |
|  | 12,000 | ESMH350VSN123MA30T | 35 × 30   | A30 | 0.035 | 4.42  |
|  | 15,000 | ESMH350VSN153MA35T | 35 × 35   | A35 | 0.028 | 5.01  |
|  | 18,000 | ESMH350VSN183MA40T | 35 × 40   | A40 | 0.023 | 5.54  |
|  | 22,000 | ESMH350VSN223MA45T | 35 × 45   | A45 | 0.019 | 6.04  |
|  | 27,000 | ESMH350VSN273MA50T | 35 × 50   | A50 | 0.015 | 6.89  |
|  | 33,000 | ESMH350VSN333MA63T | 35 × 63   | A63 | 0.012 | 7.93  |
|  | 47,000 | ESMH350VSN473MA80T | 35 × 80   | A80 | 0.01  | 10.12 |
|  | 15,000 | ESMH350VQT153MB25T | 40 × 25   | B25 | 0.028 | 4.39  |
|  | 18,000 | ESMH350VQT183MB30T | 40 × 30   | B30 | 0.023 | 5.04  |
|  | 22,000 | ESMH350VQT223MB35T | 40 × 35   | B35 | 0.019 | 5.78  |
|  | 27,000 | ESMH350VQT273MB40T | 40 × 40   | B40 | 0.016 | 6.59  |
|  | 39,000 | ESMH350VQT393MB50T | 40 × 50   | B50 | 0.012 | 8.42  |
|  | 47,000 | ESMH350VQT473MB63T | 40 × 63   | B63 | 0.01  | 9.88  |
|  | 68,000 | ESMH350VQT683MB80T | 40 × 80   | B80 | 0.008 | 12.92 |

† 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.

# SMH Series

## 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 +85°C, 120Hz |
|----------------------------|--------------------|---------------------|-------------------------------|----------------|---------------------------------|--|
| 50 Volts<br>63 Volts Surge | 2,200              | ESMH500VSN222MP25T  | 22 × 25                       | P25            | 0.151                           | 1.91   |
|                            | 3,300              | ESMH500VSN332MP30T  | 22 × 30                       | P30            | 0.10                            | 2.37   |
|                            | 3,900              | ESMH500VSN392MP35T  | 22 × 35                       | P35            | 0.085                           | 2.65   |
|                            | 4,700              | ESMH500VSN472MP40T  | 22 × 40                       | P40            | 0.071                           | 2.99   |
|                            | 5,600              | ESMH500VSN562MP45T  | 22 × 45                       | P45            | 0.059                           | 3.36   |
|                            | 6,800              | ESMH500VSN682MP50T  | 22 × 50                       | P50            | 0.049                           | 3.81   |
|                            | 3,300              | ESMH500VSN332MQ25T  | 25.4 × 25                     | Q25            | 0.10                            | 2.38   |
|                            | 3,900              | ESMH500VSN392MQ30T  | 25.4 × 30                     | Q30            | 0.085                           | 2.68   |
|                            | 4,700              | ESMH500VSN472MQ35T  | 25.4 × 35                     | Q35            | 0.071                           | 3.03   |
|                            | 5,600              | ESMH500VSN562MQ35T  | 25.4 × 35                     | Q35            | 0.059                           | 3.31   |
|                            | 6,800              | ESMH500VSN682MQ40T  | 25.4 × 40                     | Q40            | 0.049                           | 3.81   |
|                            | 8,200              | ESMH500VSN822MQ50T  | 25.4 × 50                     | Q50            | 0.04                            | 4.37   |
|                            | 3,900              | ESMH500VSN392MR25T  | 30 × 25                       | R25            | 0.085                           | 2.55   |
|                            | 4,700              | ESMH500VSN472MR25T  | 30 × 25                       | R25            | 0.071                           | 2.81   |
|                            | 5,600              | ESMH500VSN562MR30T  | 30 × 30                       | R30            | 0.059                           | 3.37   |
|                            | 6,800              | ESMH500VSN682MR35T  | 30 × 35                       | R35            | 0.049                           | 3.85   |
|                            | 8,200              | ESMH500VSN822MR40T  | 30 × 40                       | R40            | 0.04                            | 4.36   |
|                            | 10,000             | ESMH500VSN103MR45T  | 30 × 45                       | R45            | 0.033                           | 4.97   |
|                            | 12,000             | ESMH500VSN123MR50T  | 30 × 50                       | R50            | 0.028                           | 5.6  |
|                            | 5,600              | ESMH500VSN562MA25T  | 35 × 25                       | A25            | 0.059                           | 3.42   |
|                            | 6,800              | ESMH500VSN682MA30T  | 35 × 30                       | A30            | 0.049                           | 3.85   |
|                            | 8,200              | ESMH500VSN822MA30T  | 35 × 30                       | A30            | 0.04                            | 4.41   |
|                            | 10,000             | ESMH500VSN103MA35T  | 35 × 35                       | A35            | 0.033                           | 4.92   |
|                            | 12,000             | ESMH500VSN123MA40T  | 35 × 40                       | A40            | 0.028                           | 5.58   |
|                            | 15,000             | ESMH500VSN153MA45T  | 35 × 45                       | A45            | 0.022                           | 6.44   |
|                            | 18,000             | ESMH500VSN183MA50T  | 35 × 50                       | A50            | 0.018                           | 6.71   |
|                            | 22,000             | ESMH500VSN223MA63T  | 35 × 63                       | A63            | 0.013                           | 7.23   |
|                            | 27,000             | ESMH500VSN273MA80T  | 35 × 80                       | A80            | 0.011                           | 8.57   |
|                            | 8,200              | ESMH500VQT822MB25T  | 40 × 25                       | B25            | 0.033                           | 3.63   |
|                            | 12,000             | ESMH500VQT123MB30T  | 40 × 30                       | B30            | 0.024                           | 4.6  |
|                            | 15,000             | ESMH500VQT153MB35T  | 40 × 35                       | B35            | 0.02                            | 5.33   |
|                            | 18,000             | ESMH500VQT183MB40T  | 40 × 40                       | B40            | 0.017                           | 6.02   |
|                            | 22,000             | ESMH500VQT223MB50T  | 40 × 50                       | B50            | 0.014                           | 7.07   |
| 33,000                     | ESMH500VQT333MB63T | 40 × 63             | B63                           | 0.011          | 9.25                            |  |
| 39,000                     | ESMH500VQT393MB80T | 40 × 80             | B80                           | 0.009          | 10.94                           |  |
| 63 Volts<br>79 Volts Surge | 1,800              | ESMH630VSN182MP25T  | 22 × 25                       | P25            | 0.138                           | 1.82   |
|                            | 2,200              | ESMH630VSN222MP30T  | 22 × 30                       | P30            | 0.113                           | 2.31   |
|                            | 2,700              | ESMH630VSN272MP35T  | 22 × 35                       | P35            | 0.092                           | 2.4  |
|                            | 3,300              | ESMH630VSN332MP35T  | 22 × 35                       | P35            | 0.075                           | 2.62   |
|                            | 3,900              | ESMH630VSN392MP40T  | 22 × 40                       | P40            | 0.064                           | 2.93   |
|                            | 4,700              | ESMH630VSN472MP50T  | 22 × 50                       | P50            | 0.053                           | 3.39   |
|                            | 2,200              | ESMH630VSN222MQ25T  | 25.4 × 25                     | Q25            | 0.113                           | 2.3  |
|                            | 2,700              | ESMH630VSN272MQ25T  | 25.4 × 25                     | Q25            | 0.092                           | 2.4  |
|                            | 3,300              | ESMH630VSN332MQ30T  | 25.4 × 30                     | Q30            | 0.075                           | 2.64   |
|                            | 3,900              | ESMH630VSN392MQ35T  | 25.4 × 35                     | Q35            | 0.064                           | 2.97   |
|                            | 4,700              | ESMH630VSN472MQ40T  | 25.4 × 40                     | Q40            | 0.053                           | 3.36   |
|                            | 5,600              | ESMH630VSN562MQ45T  | 25.4 × 45                     | Q45            | 0.044                           | 3.77   |
|                            | 6,800              | ESMH630VSN682MQ50T  | 25.4 × 50                     | Q50            | 0.037                           | 4.27   |
|                            | 3,300              | ESMH630VSN332MR25T  | 30 × 25                       | R25            | 0.075                           | 2.78   |
|                            | 3,900              | ESMH630VSN392MR30T  | 30 × 30                       | R30            | 0.064                           | 3.0  |
|                            | 4,700              | ESMH630VSN472MR30T  | 30 × 30                       | R30            | 0.053                           | 3.32   |
|                            | 5,600              | ESMH630VSN562MR35T  | 30 × 35                       | R35            | 0.044                           | 3.75   |
|                            | 6,800              | ESMH630VSN682MR40T  | 30 × 40                       | R40            | 0.037                           | 4.27   |
|                            | 8,200              | ESMH630VSN822MR45T  | 30 × 45                       | R45            | 0.03                            | 4.83   |
|                            | 10,000             | ESMH630VSN103MR50T  | 30 × 50                       | R50            | 0.025                           | 5.49   |
|                            | 3,900              | ESMH630VSN392MA25T  | 35 × 25                       | A25            | 0.064                           | 3.0  |
|                            | 4,700              | ESMH630VSN472MA25T  | 35 × 25                       | A25            | 0.053                           | 3.36   |
|                            | 5,600              | ESMH630VSN562MA30T  | 35 × 30                       | A30            | 0.044                           | 3.76   |
| 6,800                      | ESMH630VSN682MA30T | 35 × 30             | A30                           | 0.037          | 4.15                            |  |

† 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.



# SMH Series

## 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 +85°C, 120Hz |
|--------------------------------------|--------------------|---------------------|-------------------------------|----------------|---------------------------------|--|
| <b>63 Volts<br/>79 Volts Surge</b>   | 8,200              | ESMH630VSN822MA35T  | 35 × 35                       | A35            | 0.03                            | 4.79   |
|                                      | 10,000             | ESMH630VSN103MA40T  | 35 × 40                       | A40            | 0.025                           | 5.47   |
|                                      | 12,000             | ESMH630VSN123MA45T  | 35 × 45                       | A45            | 0.021                           | 6.19   |
|                                      | 15,000             | ESMH630VSN153MA63T  | 35 × 63                       | A63            | 0.015                           | 6.9  |
|                                      | 22,000             | ESMH630VSN223MA80T  | 35 × 80                       | A80            | 0.011                           | 8.94   |
|                                      | 6,800              | ESMH630VQT682MB25T  | 40 × 25                       | B25            | 0.036                           | 3.82   |
|                                      | 8,200              | ESMH630VQT822MB30T  | 40 × 30                       | B30            | 0.029                           | 4.39   |
|                                      | 10,000             | ESMH630VQT103MB35T  | 40 × 35                       | B35            | 0.024                           | 5.03   |
|                                      | 12,000             | ESMH630VQT123MB40T  | 40 × 40                       | B40            | 0.02                            | 5.68   |
|                                      | 18,000             | ESMH630VQT183MB50T  | 40 × 50                       | B50            | 0.015                           | 7.39   |
|                                      | 22,000             | ESMH630VQT223MB63T  | 40 × 63                       | B63            | 0.013                           | 8.72   |
|                                      | 33,000             | ESMH630VQT333MB80T  | 40 × 80                       | B80            | 0.01                            | 11.62  |
| <b>80 Volts<br/>100 Volts Surge</b>  | 1,200              | ESMH800VSN122MP25T  | 22 × 25                       | P25            | 0.207                           | 1.69   |
|                                      | 1,500              | ESMH800VSN182MP25T  | 22 × 25                       | P25            | 0.138                           | 1.88   |
|                                      | 1,800              | ESMH800VSN182MP30T  | 22 × 30                       | P30            | 0.138                           | 2.14   |
|                                      | 2,200              | ESMH800VSN222MP35T  | 22 × 35                       | P35            | 0.113                           | 2.44   |
|                                      | 2,700              | ESMH800VSN272MP40T  | 22 × 40                       | P40            | 0.092                           | 2.78   |
|                                      | 3,300              | ESMH800VSN332MP45T  | 22 × 45                       | P45            | 0.075                           | 3.16   |
|                                      | 3,900              | ESMH800VSN392MP50T  | 22 × 50                       | P50            | 0.064                           | 3.52   |
|                                      | 1,800              | ESMH800VSN182MQ25T  | 25.4 × 25                     | Q25            | 0.138                           | 2.26   |
|                                      | 2,200              | ESMH800VSN222MQ30T  | 25.4 × 30                     | Q30            | 0.113                           | 2.46   |
|                                      | 2,700              | ESMH800VSN272MQ35T  | 25.4 × 35                     | Q35            | 0.092                           | 2.81   |
|                                      | 3,300              | ESMH800VSN332MQ40T  | 25.4 × 40                     | Q40            | 0.075                           | 3.21   |
|                                      | 3,900              | ESMH800VSN392MQ45T  | 25.4 × 45                     | Q45            | 0.064                           | 3.59   |
|                                      | 4,700              | ESMH800VSN472MQ50T  | 25.4 × 50                     | Q50            | 0.053                           | 4.05   |
|                                      | 2,200              | ESMH800VSN222MR25T  | 30 × 25                       | R25            | 0.113                           | 2.49   |
|                                      | 2,700              | ESMH800VSN272MR25T  | 30 × 25                       | R25            | 0.092                           | 2.75   |
|                                      | 3,300              | ESMH800VSN332MR30T  | 30 × 30                       | R30            | 0.075                           | 3.17   |
|                                      | 3,900              | ESMH800VSN392MR35T  | 30 × 35                       | R35            | 0.064                           | 3.57   |
|                                      | 4,700              | ESMH800VSN472MR40T  | 30 × 40                       | R40            | 0.053                           | 4.05   |
|                                      | 5,600              | ESMH800VSN562MR45T  | 30 × 45                       | R45            | 0.044                           | 4.55   |
|                                      | 6,800              | ESMH800VSN682MR50T  | 30 × 50                       | R50            | 0.037                           | 5.16   |
|                                      | 3,300              | ESMH800VSN332MA25T  | 35 × 25                       | A25            | 0.075                           | 3.21   |
|                                      | 3,900              | ESMH800VSN392MA25T  | 35 × 25                       | A25            | 0.064                           | 3.5  |
|                                      | 4,700              | ESMH800VSN472MA30T  | 35 × 30                       | A30            | 0.053                           | 4.09   |
|                                      | 5,600              | ESMH800VSN562MA35T  | 35 × 35                       | A35            | 0.044                           | 4.51   |
|                                      | 6,800              | ESMH800VSN682MA40T  | 35 × 40                       | A40            | 0.037                           | 5.14   |
|                                      | 8,200              | ESMH800VSN822MA45T  | 35 × 45                       | A45            | 0.03                            | 5.83   |
|                                      | 10,000             | ESMH800VSN103MA50T  | 35 × 50                       | A50            | 0.025                           | 6.63   |
|                                      | 12,000             | ESMH800VSN123MA63T  | 35 × 63                       | A63            | 0.021                           | 6.9  |
|                                      | 15,000             | ESMH800VSN153MA80T  | 35 × 80                       | A80            | 0.017                           | 9.04   |
|                                      | 4,700              | ESMH800VQT472MB25T  | 40 × 25                       | B25            | 0.053                           | 3.89   |
|                                      | 5,600              | ESMH800VQT562MB30T  | 40 × 30                       | B30            | 0.044                           | 4.44   |
|                                      | 6,800              | ESMH800VQT682MB35T  | 40 × 35                       | B35            | 0.037                           | 5.08   |
|                                      | 8,200              | ESMH800VQT822MB40T  | 40 × 40                       | B40            | 0.03                            | 5.75   |
| 12,000                               | ESMH800VQT123MB50T | 40 × 50             | B50                           | 0.021          | 7.39                            |  |
| 15,000                               | ESMH800VQT153MB63T | 40 × 63             | B63                           | 0.017          | 8.82                            |  |
| 22,000                               | ESMH800VQT223MB80T | 40 × 80             | B80                           | 0.011          | 11.62                           |  |
| <b>100 Volts<br/>125 Volts Surge</b> | 820                | ESMH101VSN821MP25T  | 22 × 25                       | P25            | 0.303                           | 1.86   |
|                                      | 1,200              | ESMH101VSN122MP30T  | 22 × 30                       | P30            | 0.207                           | 2.09   |
|                                      | 1,500              | ESMH101VSN152MP35T  | 22 × 35                       | P35            | 0.166                           | 2.41   |
|                                      | 1,800              | ESMH101VSN182MP40T  | 22 × 40                       | P40            | 0.138                           | 2.71   |
|                                      | 2,200              | ESMH101VSN222MP45T  | 22 × 45                       | P45            | 0.113                           | 3.08   |
|                                      | 2,700              | ESMH101VSN272MP50T  | 22 × 50                       | P50            | 0.092                           | 3.53   |
|                                      | 1,200              | ESMH101VSN122MQ25T  | 25.4 × 25                     | Q25            | 0.207                           | 2.1  |
|                                      | 1,500              | ESMH101VSN152MQ30T  | 25.4 × 30                     | Q30            | 0.166                           | 2.43   |
|                                      | 1,800              | ESMH101VSN182MQ35T  | 25.4 × 35                     | Q35            | 0.138                           | 2.75   |
|                                      | 2,200              | ESMH101VSN222MQ40T  | 25.4 × 40                     | Q40            | 0.113                           | 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.

# SMH Series

## 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 +85°C, 120Hz |
|----------------------|------------------|---------------------|-------------------------------|----------------|---------------------------------|--|
|----------------------|------------------|---------------------|-------------------------------|----------------|---------------------------------|--|

|                                      |                    |                    |           |       |       |      |
|--------------------------------------|--------------------|--------------------|-----------|-------|-------|------|
| <b>100 Volts<br/>125 Volts Surge</b> | 2,700              | ESMH101VSN272MQ45T | 25.4 × 45 | Q45   | 0.092 | 3.57 |
|                                      | 3,300              | ESMH101VSN332MQ50T | 25.4 × 50 | Q50   | 0.075 | 4.06 |
|                                      | 1,500              | ESMH101VSN152MR25T | 30 × 25   | R25   | 0.166 | 2.46 |
|                                      | 1,800              | ESMH101VSN182MR25T | 30 × 25   | R25   | 0.138 | 2.72 |
|                                      | 2,200              | ESMH101VSN222MR30T | 30 × 30   | R30   | 0.113 | 3.09 |
|                                      | 2,700              | ESMH101VSN272MR35T | 30 × 35   | R35   | 0.092 | 3.55 |
|                                      | 3,300              | ESMH101VSN332MR40T | 30 × 40   | R40   | 0.075 | 4.05 |
|                                      | 3,900              | ESMH101VSN392MR45T | 30 × 45   | R45   | 0.064 | 4.54 |
|                                      | 4,700              | ESMH101VSN472MR50T | 30 × 50   | R50   | 0.053 | 5.13 |
|                                      | 2,200              | ESMH101VSN222MA25T | 35 × 25   | A25   | 0.113 | 3.14 |
|                                      | 2,700              | ESMH101VSN272MA30T | 35 × 30   | A30   | 0.092 | 3.71 |
|                                      | 3,300              | ESMH101VSN332MA30T | 35 × 30   | A30   | 0.075 | 4.05 |
|                                      | 3,900              | ESMH101VSN392MA35T | 35 × 35   | A35   | 0.064 | 4.49 |
|                                      | 4,700              | ESMH101VSN472MA40T | 35 × 40   | A40   | 0.053 | 5.11 |
|                                      | 5,600              | ESMH101VSN562MA45T | 35 × 45   | A45   | 0.044 | 5.75 |
|                                      | 6,800              | ESMH101VSN682MA50T | 35 × 50   | A50   | 0.037 | 6.50 |
|                                      | 8,200              | ESMH101VSN822MA80T | 35 × 80   | A80   | 0.03  | 7.47 |
|                                      | 2,700              | ESMH101VQT272MB25T | 40 × 25   | B25   | 0.092 | 3.29 |
|                                      | 3,300              | ESMH101VQT332MB30T | 40 × 30   | B30   | 0.075 | 3.81 |
|                                      | 3,900              | ESMH101VQT392MB35T | 40 × 35   | B35   | 0.064 | 4.3  |
| 4,700                                | ESMH101VQT472MB40T | 40 × 40            | B40       | 0.053 | 4.86  |      |
| 6,800                                | ESMH101VQT682MB50T | 40 × 50            | B50       | 0.037 | 6.22  |      |
| 8,200                                | ESMH101VQT822MB63T | 40 × 63            | B63       | 0.03  | 7.29  |      |
| 12,000                               | ESMH101VQT123MB80T | 40 × 80            | B80       | 0.021 | 9.6   |      |

|                                      |                    |                    |           |       |       |      |
|--------------------------------------|--------------------|--------------------|-----------|-------|-------|------|
| <b>160 Volts<br/>200 Volts Surge</b> | 270                | ESMH161VSN271MP20T | 22 × 20   | P20   | 0.614 | 1.18 |
|                                      | 330                | ESMH161VSN331MP25T | 22 × 25   | P25   | 0.502 | 1.4  |
|                                      | 470                | ESMH161VSN471MP30T | 22 × 30   | P30   | 0.353 | 1.73 |
|                                      | 560                | ESMH161VSN561MP35T | 22 × 35   | P35   | 0.296 | 1.95 |
|                                      | 680                | ESMH161VSN681MP40T | 22 × 40   | P40   | 0.244 | 2.21 |
|                                      | 820                | ESMH161VSN821MP45T | 22 × 45   | P45   | 0.202 | 2.49 |
|                                      | 1,000              | ESMH161VSN102MP50T | 22 × 50   | P50   | 0.166 | 2.82 |
|                                      | 330                | ESMH161VSN331MQ20T | 25.4 × 20 | Q20   | 0.502 | 1.35 |
|                                      | 470                | ESMH161VSN471MQ25T | 25.4 × 25 | Q25   | 0.353 | 1.74 |
|                                      | 560                | ESMH161VSN561MQ25T | 25.4 × 25 | Q25   | 0.296 | 1.95 |
|                                      | 680                | ESMH161VSN681MQ30T | 25.4 × 30 | Q30   | 0.244 | 2.16 |
|                                      | 820                | ESMH161VSN821MQ35T | 25.4 × 35 | Q35   | 0.202 | 2.45 |
|                                      | 1,000              | ESMH161VSN102MQ40T | 25.4 × 40 | Q40   | 0.166 | 2.79 |
|                                      | 1,200              | ESMH161VSN122MQ45T | 25.4 × 45 | Q45   | 0.138 | 3.15 |
|                                      | 1,500              | ESMH161VSN152MQ50T | 25.4 × 50 | Q50   | 0.111 | 3.72 |
|                                      | 470                | ESMH161VSN471MR20T | 30 × 20   | R20   | 0.353 | 1.7  |
|                                      | 680                | ESMH161VSN681MR25T | 30 × 25   | R25   | 0.244 | 2.19 |
|                                      | 820                | ESMH161VSN821MR30T | 30 × 30   | R30   | 0.202 | 2.5  |
|                                      | 1,000              | ESMH161VSN102MR30T | 30 × 30   | R30   | 0.166 | 2.8  |
|                                      | 1,200              | ESMH161VSN122MR35T | 30 × 35   | R35   | 0.138 | 3.13 |
|                                      | 1,500              | ESMH161VSN152MR45T | 30 × 45   | R45   | 0.111 | 3.73 |
|                                      | 1,800              | ESMH161VSN182MR50T | 30 × 50   | R50   | 0.092 | 4.2  |
|                                      | 680                | ESMH161VSN681MA20T | 35 × 20   | A20   | 0.366 | 2.14 |
|                                      | 820                | ESMH161VSN821MA25T | 35 × 25   | A25   | 0.303 | 2.5  |
|                                      | 1,000              | ESMH161VSN102MA25T | 35 × 25   | A25   | 0.249 | 2.8  |
|                                      | 1,200              | ESMH161VSN122MA30T | 35 × 30   | A30   | 0.207 | 3.27 |
|                                      | 1,500              | ESMH161VSN152MA35T | 35 × 35   | A35   | 0.166 | 3.69 |
|                                      | 1,800              | ESMH161VSN182MA40T | 35 × 40   | A40   | 0.138 | 4.18 |
|                                      | 2,200              | ESMH161VSN222MA45T | 35 × 45   | A45   | 0.113 | 4.78 |
|                                      | 2,700              | ESMH161VSN272MA50T | 35 × 50   | A50   | 0.092 | 5.45 |
|                                      | 3,300              | ESMH161VSN332MA63T | 35 × 63   | A63   | 0.075 | 5.6  |
|                                      | 4,700              | ESMH161VSN472MA80T | 35 × 80   | A80   | 0.053 | 7.15 |
|                                      | 1,500              | ESMH161VQT152MB25T | 40 × 25   | B25   | 0.166 | 3.11 |
| 1,800                                | ESMH161VQT182MB30T | 40 × 30            | B30       | 0.138 | 3.56  |      |

† 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.

# SMH Series

## 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 +85°C, 120Hz |
|----------------------|------------------|---------------------|-------------------------------|----------------|---------------------------------|--|
|----------------------|------------------|---------------------|-------------------------------|----------------|---------------------------------|--|

|                                      |       |                    |         |     |       |      |
|--------------------------------------|-------|--------------------|---------|-----|-------|------|
| <b>160 Volts<br/>200 Volts Surge</b> | 2,200 | ESMH161VQT222MB35T | 40 × 35 | B35 | 0.113 | 4.09 |
|                                      | 2,700 | ESMH161VQT272MB40T | 40 × 40 | B40 | 0.092 | 4.66 |
|                                      | 3,900 | ESMH161VQT392MB50T | 40 × 50 | B50 | 0.064 | 5.96 |
|                                      | 4,700 | ESMH161VQT472MB63T | 40 × 63 | B63 | 0.053 | 6.98 |
|                                      | 6,800 | ESMH161VQT682MB80T | 40 × 80 | B80 | 0.037 | 9.14 |

|                                      |                    |                    |           |       |       |      |
|--------------------------------------|--------------------|--------------------|-----------|-------|-------|------|
| <b>180 Volts<br/>225 Volts Surge</b> | 220                | ESMH181VSN221MP20T | 22 × 20   | P20   | 0.753 | 1.06 |
|                                      | 270                | ESMH181VSN221MP25T | 22 × 25   | P25   | 0.614 | 1.27 |
|                                      | 390                | ESMH181VSN221MP30T | 22 × 30   | P30   | 0.425 | 1.58 |
|                                      | 470                | ESMH181VSN221MP35T | 22 × 35   | P35   | 0.353 | 1.79 |
|                                      | 560                | ESMH181VSN221MP40T | 22 × 40   | P40   | 0.296 | 2.0  |
|                                      | 680                | ESMH181VSN221MP45T | 22 × 45   | P45   | 0.244 | 2.27 |
|                                      | 820                | ESMH181VSN221MP50T | 22 × 50   | P50   | 0.202 | 2.55 |
|                                      | 270                | ESMH181VSN271MQ20T | 25.4 × 20 | Q20   | 0.614 | 1.22 |
|                                      | 390                | ESMH181VSN391MQ25T | 25.4 × 25 | Q25   | 0.425 | 1.58 |
|                                      | 560                | ESMH181VSN561MQ30T | 25.4 × 30 | Q30   | 0.296 | 1.96 |
|                                      | 680                | ESMH181VSN681MQ35T | 25.4 × 35 | Q35   | 0.244 | 2.23 |
|                                      | 820                | ESMH181VSN821MQ40T | 25.4 × 40 | Q40   | 0.202 | 2.53 |
|                                      | 1,000              | ESMH181VSN102MQ45T | 25.4 × 45 | Q45   | 0.166 | 2.87 |
|                                      | 390                | ESMH181VSN391MR20T | 30 × 20   | R20   | 0.425 | 1.55 |
|                                      | 560                | ESMH181VSN561MR25T | 30 × 25   | R25   | 0.296 | 1.99 |
|                                      | 820                | ESMH181VSN821MR30T | 30 × 30   | R30   | 0.202 | 2.7  |
|                                      | 1,000              | ESMH181VSN102MR35T | 30 × 35   | R35   | 0.166 | 2.86 |
|                                      | 1,200              | ESMH181VSN122MR40T | 30 × 40   | R40   | 0.138 | 3.23 |
|                                      | 1,500              | ESMH181VSN152MR50T | 30 × 50   | R50   | 0.111 | 3.83 |
|                                      | 560                | ESMH181VSN561MA20T | 35 × 20   | A20   | 0.444 | 1.94 |
|                                      | 820                | ESMH181VSN821MA25T | 35 × 25   | A25   | 0.303 | 2.53 |
|                                      | 1,000              | ESMH181VSN102MA30T | 35 × 30   | A30   | 0.249 | 2.99 |
|                                      | 1,200              | ESMH181VSN122MA35T | 35 × 35   | A35   | 0.207 | 3.31 |
|                                      | 1,500              | ESMH181VSN152MA40T | 35 × 40   | A40   | 0.166 | 3.82 |
|                                      | 1,800              | ESMH181VSN182MA45T | 35 × 45   | A45   | 0.138 | 4.32 |
|                                      | 2,200              | ESMH181VSN222MA50T | 35 × 50   | A50   | 0.113 | 4.92 |
|                                      | 2,700              | ESMH181VSN272MA63T | 35 × 63   | A63   | 0.092 | 5.67 |
|                                      | 3,900              | ESMH181VSN392MA80T | 35 × 80   | A80   | 0.064 | 7.29 |
|                                      | 1,200              | ESMH181VQT122MB25T | 40 × 25   | B25   | 0.207 | 3.11 |
|                                      | 1,500              | ESMH181VQT152MB30T | 40 × 30   | B30   | 0.166 | 3.64 |
|                                      | 1,800              | ESMH181VQT182MB35T | 40 × 35   | B35   | 0.138 | 4.13 |
|                                      | 2,200              | ESMH181VQT222MB40T | 40 × 40   | B40   | 0.113 | 4.71 |
|                                      | 3,300              | ESMH181VQT332MB50T | 40 × 50   | B50   | 0.075 | 6.13 |
| 3,900                                | ESMH181VQT392MB63T | 40 × 63            | B63       | 0.064 | 7.11  |      |
| 5,600                                | ESMH181VQT562MB80T | 40 × 80            | B80       | 0.044 | 9.27  |      |

|                                      |       |                    |           |     |       |      |
|--------------------------------------|-------|--------------------|-----------|-----|-------|------|
| <b>200 Volts<br/>250 Volts Surge</b> | 180   | ESMH201VSN181MP20T | 22 × 20   | P20 | 0.921 | 0.96 |
|                                      | 270   | ESMH201VSN271MP25T | 22 × 25   | P25 | 0.614 | 1.27 |
|                                      | 330   | ESMH201VSN331MP30T | 22 × 30   | P30 | 0.502 | 1.45 |
|                                      | 390   | ESMH201VSN391MP30T | 22 × 30   | P30 | 0.425 | 1.58 |
|                                      | 470   | ESMH201VSN471MP35T | 22 × 35   | P35 | 0.353 | 1.78 |
|                                      | 560   | ESMH201VSN561MP40T | 22 × 40   | P40 | 0.296 | 2.0  |
|                                      | 680   | ESMH201VSN681MP50T | 22 × 50   | P50 | 0.244 | 2.33 |
|                                      | 270   | ESMH201VSN271MQ20T | 25.4 × 20 | Q20 | 0.614 | 1.22 |
|                                      | 330   | ESMH201VSN331MQ25T | 25.4 × 25 | Q25 | 0.502 | 1.45 |
|                                      | 390   | ESMH201VSN391MQ25T | 25.4 × 25 | Q25 | 0.425 | 1.58 |
|                                      | 470   | ESMH201VSN471MQ30T | 25.4 × 30 | Q30 | 0.353 | 1.8  |
|                                      | 560   | ESMH201VSN561MQ35T | 25.4 × 35 | Q35 | 0.296 | 2.03 |
|                                      | 680   | ESMH201VSN681MQ40T | 25.4 × 40 | Q40 | 0.244 | 2.3  |
|                                      | 820   | ESMH201VSN821MQ45T | 25.4 × 45 | Q45 | 0.202 | 2.6  |
|                                      | 1,000 | ESMH201VSN102MQ50T | 25.4 × 50 | Q50 | 0.166 | 2.95 |
|                                      | 390   | ESMH201VSN391MR20T | 30 × 20   | R20 | 0.425 | 1.55 |
|                                      | 470   | ESMH201VSN471MR25T | 30 × 25   | R25 | 0.353 | 1.8  |
|                                      | 560   | ESMH201VSN561MR25T | 30 × 25   | R25 | 0.296 | 2.0  |

† 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.

# SMH Series

## 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 +85°C, 120Hz |
|----------------------|------------------|---------------------|-------------------------------|----------------|---------------------------------|--|
|----------------------|------------------|---------------------|-------------------------------|----------------|---------------------------------|--|

|                                      |                    |                    |         |       |       |      |
|--------------------------------------|--------------------|--------------------|---------|-------|-------|------|
| <b>200 Volts<br/>250 Volts Surge</b> | 680                | ESMH201VSN681MR30T | 30 × 30 | R30   | 0.244 | 2.28 |
|                                      | 820                | ESMH201VSN821MR35T | 30 × 35 | R35   | 0.202 | 2.59 |
|                                      | 1,000              | ESMH201VSN102MR40T | 30 × 40 | R40   | 0.166 | 2.95 |
|                                      | 1,200              | ESMH201VSN122MR45T | 30 × 45 | R45   | 0.138 | 3.31 |
|                                      | 1,500              | ESMH201VSN152MR50T | 30 × 50 | R50   | 0.111 | 3.82 |
|                                      | 560                | ESMH201VSN561MA20T | 35 × 20 | A20   | 0.444 | 1.94 |
|                                      | 680                | ESMH201VSN681MA25T | 35 × 25 | A25   | 0.366 | 2.31 |
|                                      | 820                | ESMH201VSN821MA25T | 35 × 25 | A25   | 0.303 | 2.6  |
|                                      | 1,000              | ESMH201VSN102MA30T | 35 × 30 | A30   | 0.249 | 2.95 |
|                                      | 1,200              | ESMH201VSN122MA35T | 35 × 35 | A35   | 0.207 | 3.31 |
|                                      | 1,500              | ESMH201VSN152MA40T | 35 × 40 | A40   | 0.166 | 3.82 |
|                                      | 1,800              | ESMH201VSN182MA45T | 35 × 45 | A45   | 0.138 | 4.32 |
|                                      | 2,200              | ESMH201VSN222MA50T | 35 × 50 | A50   | 0.113 | 4.92 |
|                                      | 2,700              | ESMH201VSN272MA63T | 35 × 63 | A63   | 0.092 | 5.67 |
|                                      | 3,300              | ESMH201VSN332MA80T | 35 × 80 | A80   | 0.075 | 6.7  |
|                                      | 1,000              | ESMH201VQT102MB25T | 40 × 25 | B25   | 0.249 | 2.84 |
|                                      | 1,500              | ESMH201VQT152MB30T | 40 × 30 | B30   | 0.166 | 3.64 |
|                                      | 1,800              | ESMH201VQT182MB35T | 40 × 35 | B35   | 0.138 | 4.13 |
|                                      | 2,200              | ESMH201VQT222MB40T | 40 × 40 | B40   | 0.113 | 4.71 |
|                                      | 2,700              | ESMH201VQT272MB50T | 40 × 50 | B50   | 0.092 | 5.54 |
| 3,900                                | ESMH201VQT392MB63T | 40 × 63            | B63     | 0.064 | 7.11  |      |
| 4,700                                | ESMH201VQT472MB80T | 40 × 80            | B80     | 0.053 | 8.49  |      |

|                                      |       |                    |           |     |       |      |
|--------------------------------------|-------|--------------------|-----------|-----|-------|------|
| <b>250 Volts<br/>300 Volts Surge</b> | 120   | ESMH251VSN121MP20T | 22 × 20   | P20 | 1.381 | 0.78 |
|                                      | 180   | ESMH251VSN181MP25T | 22 × 25   | P25 | 0.921 | 1.04 |
|                                      | 220   | ESMH251VSN221MP25T | 22 × 25   | P25 | 0.753 | 1.15 |
|                                      | 270   | ESMH251VSN271MP30T | 22 × 30   | P30 | 0.614 | 1.31 |
|                                      | 330   | ESMH251VSN331MP35T | 22 × 35   | P35 | 0.502 | 1.49 |
|                                      | 390   | ESMH251VSN391MP40T | 22 × 40   | P40 | 0.425 | 1.67 |
|                                      | 470   | ESMH251VSN471MP45T | 22 × 45   | P45 | 0.353 | 1.88 |
|                                      | 560   | ESMH251VSN561MP50T | 22 × 50   | P50 | 0.296 | 2.1  |
|                                      | 180   | ESMH251VSN181MQ20T | 25.4 × 20 | Q20 | 0.921 | 1.0  |
|                                      | 270   | ESMH251VSN271MQ25T | 25.4 × 25 | Q25 | 0.614 | 1.32 |
|                                      | 330   | ESMH251VSN331MQ30T | 25.4 × 30 | Q30 | 0.502 | 1.51 |
|                                      | 390   | ESMH251VSN391MQ30T | 25.4 × 30 | Q30 | 0.425 | 1.66 |
|                                      | 470   | ESMH251VSN471MQ35T | 25.4 × 35 | Q35 | 0.353 | 1.86 |
|                                      | 560   | ESMH251VSN561MQ40T | 25.4 × 40 | Q40 | 0.296 | 2.09 |
|                                      | 680   | ESMH251VSN681MQ50T | 25.4 × 50 | Q50 | 0.244 | 2.44 |
|                                      | 270   | ESMH251VSN271MR20T | 30 × 20   | R20 | 0.614 | 1.29 |
|                                      | 330   | ESMH251VSN331MR25T | 30 × 25   | R25 | 0.502 | 1.52 |
|                                      | 390   | ESMH251VSN391MR25T | 30 × 25   | R25 | 0.425 | 1.66 |
|                                      | 470   | ESMH251VSN471MR30T | 30 × 30   | R30 | 0.353 | 1.89 |
|                                      | 560   | ESMH251VSN561MR35T | 30 × 35   | R35 | 0.296 | 2.14 |
|                                      | 680   | ESMH251VSN681MR40T | 30 × 40   | R40 | 0.244 | 2.43 |
|                                      | 820   | ESMH251VSN821MR45T | 30 × 45   | R45 | 0.202 | 2.75 |
|                                      | 1,000 | ESMH251VSN102MR50T | 30 × 50   | R50 | 0.166 | 3.31 |
|                                      | 390   | ESMH251VSN391MA20T | 35 × 20   | A20 | 0.638 | 1.62 |
|                                      | 470   | ESMH251VSN471MA25T | 35 × 25   | A25 | 0.529 | 1.88 |
|                                      | 560   | ESMH251VSN561MA25T | 35 × 25   | A25 | 0.444 | 2.06 |
|                                      | 680   | ESMH251VSN681MA30T | 35 × 30   | A30 | 0.366 | 2.46 |
|                                      | 820   | ESMH251VSN821MA35T | 35 × 35   | A35 | 0.303 | 2.77 |
|                                      | 1,000 | ESMH251VSN102MA40T | 35 × 40   | A40 | 0.249 | 3.32 |
|                                      | 1,200 | ESMH251VSN122MA45T | 35 × 45   | A45 | 0.207 | 3.53 |
|                                      | 1,500 | ESMH251VSN152MA50T | 35 × 50   | A50 | 0.166 | 4.04 |
|                                      | 1,800 | ESMH251VSN182MA63T | 35 × 63   | A63 | 0.138 | 4.63 |
|                                      | 2,200 | ESMH251VSN222MA80T | 35 × 80   | A80 | 0.113 | 5.47 |
|                                      | 680   | ESMH251VQT681MB25T | 40 × 25   | B25 | 0.366 | 2.34 |
|                                      | 1,000 | ESMH251VQT102MB30T | 40 × 30   | B30 | 0.249 | 2.97 |
|                                      | 1,200 | ESMH251VQT122MB35T | 40 × 35   | B35 | 0.207 | 3.37 |

† 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.

# SMH Series

## 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 +85°C, 120Hz |
|----------------------|------------------|---------------------|-------------------------------|----------------|---------------------------------|--|
|----------------------|------------------|---------------------|-------------------------------|----------------|---------------------------------|--|

|                                     |       |                    |         |     |       |      |
|-------------------------------------|-------|--------------------|---------|-----|-------|------|
| <b>250 Volts</b><br>300 Volts Surge | 1,500 | ESMH251VQT152MB40T | 40 × 40 | B40 | 0.166 | 3.89 |
|                                     | 1,800 | ESMH251VQT182MB50T | 40 × 50 | B50 | 0.138 | 4.52 |
|                                     | 2,200 | ESMH251VQT222MB63T | 40 × 63 | B63 | 0.113 | 5.34 |
|                                     | 3,300 | ESMH251VQT332MB80T | 40 × 80 | B80 | 0.075 | 7.12 |

|                                     |                    |                    |           |       |       |      |
|-------------------------------------|--------------------|--------------------|-----------|-------|-------|------|
| <b>315 Volts</b><br>365 Volts Surge | 82                 | ESMH3B1VSN820MP20T | 22 × 20   | P20   | 3.032 | 0.65 |
|                                     | 120                | ESMH3B1VSN121MP25T | 22 × 25   | P25   | 2.072 | 0.94 |
|                                     | 150                | ESMH3B1VSN151MP30T | 22 × 30   | P30   | 1.658 | 1.11 |
|                                     | 180                | ESMH3B1VSN181MP35T | 22 × 35   | P35   | 1.381 | 1.2  |
|                                     | 220                | ESMH3B1VSN221MP40T | 22 × 40   | P40   | 1.13  | 1.41 |
|                                     | 270                | ESMH3B1VSN271MP45T | 22 × 45   | P45   | 0.921 | 1.6  |
|                                     | 330                | ESMH3B1VSN331MP50T | 22 × 50   | P50   | 0.753 | 1.82 |
|                                     | 100                | ESMH3B1VSN101MQ20T | 25.4 × 20 | Q20   | 2.486 | 0.74 |
|                                     | 150                | ESMH3B1VSN151MQ25T | 25.4 × 25 | Q25   | 1.658 | 1.1  |
|                                     | 180                | ESMH3B1VSN181MQ25T | 25.4 × 25 | Q25   | 1.381 | 1.2  |
|                                     | 220                | ESMH3B1VSN221MQ30T | 25.4 × 30 | Q30   | 1.13  | 1.38 |
|                                     | 270                | ESMH3B1VSN271MQ35T | 25.4 × 35 | Q35   | 0.921 | 1.59 |
|                                     | 330                | ESMH3B1VSN331MQ40T | 25.4 × 40 | Q40   | 0.753 | 1.8  |
|                                     | 390                | ESMH3B1VSN391MQ45T | 25.4 × 45 | Q45   | 0.638 | 2.01 |
|                                     | 470                | ESMH3B1VSN471MQ45T | 25.4 × 45 | Q45   | 0.529 | 2.2  |
|                                     | 150                | ESMH3B1VSN151MR20T | 30 × 20   | R20   | 1.658 | 0.96 |
|                                     | 220                | ESMH3B1VSN221MR25T | 30 × 25   | R25   | 1.13  | 1.4  |
|                                     | 270                | ESMH3B1VSN271MR30T | 30 × 30   | R30   | 0.921 | 1.59 |
|                                     | 330                | ESMH3B1VSN331MR30T | 30 × 30   | R30   | 0.753 | 1.8  |
|                                     | 390                | ESMH3B1VSN391MR35T | 30 × 35   | R35   | 0.638 | 1.99 |
|                                     | 470                | ESMH3B1VSN471MR40T | 30 × 40   | R40   | 0.529 | 2.27 |
|                                     | 560                | ESMH3B1VSN561MR45T | 30 × 45   | R45   | 0.444 | 2.56 |
|                                     | 680                | ESMH3B1VSN681MR50T | 30 × 50   | R50   | 0.366 | 2.88 |
|                                     | 220                | ESMH3B1VSN221MA20T | 35 × 20   | A20   | 1.13  | 1.22 |
|                                     | 270                | ESMH3B1VSN271MA25T | 35 × 25   | A25   | 0.921 | 1.59 |
|                                     | 330                | ESMH3B1VSN331MA25T | 35 × 25   | A25   | 0.753 | 1.8  |
|                                     | 390                | ESMH3B1VSN391MA30T | 35 × 30   | A30   | 0.638 | 2.0  |
|                                     | 470                | ESMH3B1VSN471MA30T | 35 × 30   | A30   | 0.529 | 2.23 |
|                                     | 560                | ESMH3B1VSN561MA35T | 35 × 35   | A35   | 0.444 | 2.49 |
|                                     | 680                | ESMH3B1VSN681MA40T | 35 × 40   | A40   | 0.366 | 2.87 |
|                                     | 820                | ESMH3B1VSN821MA45T | 35 × 45   | A45   | 0.303 | 3.25 |
|                                     | 1,000              | ESMH3B1VSN102MA50T | 35 × 50   | A50   | 0.249 | 3.69 |
|                                     | 1,200              | ESMH3B1VSN122MA63T | 35 × 63   | A63   | 0.207 | 4.36 |
|                                     | 1,500              | ESMH3B1VSN152MA80T | 35 × 80   | A80   | 0.166 | 5.22 |
|                                     | 390                | ESMH3B1VQT391MB25T | 40 × 25   | B25   | 0.638 | 2.04 |
|                                     | 560                | ESMH3B1VQT561MB30T | 40 × 30   | B30   | 0.444 | 2.57 |
| 680                                 | ESMH3B1VQT681MB35T | 40 × 35            | B35       | 0.366 | 2.93  |      |
| 820                                 | ESMH3B1VQT821MB40T | 40 × 40            | B40       | 0.303 | 3.32  |      |
| 1,200                               | ESMH3B1VQT122MB50T | 40 × 50            | B50       | 0.207 | 4.27  |      |
| 1,500                               | ESMH3B1VQT152MB63T | 40 × 63            | B63       | 0.166 | 5.09  |      |
| 2,200                               | ESMH3B1VQT222MB80T | 40 × 80            | B80       | 0.113 | 6.71  |      |

|                                     |     |                    |           |     |       |      |
|-------------------------------------|-----|--------------------|-----------|-----|-------|------|
| <b>350 Volts</b><br>400 Volts Surge | 68  | ESMH351VSN680MP20T | 22 × 20   | P20 | 3.656 | 0.59 |
|                                     | 100 | ESMH351VSN101MP25T | 22 × 25   | P25 | 2.486 | 0.86 |
|                                     | 120 | ESMH351VSN121MP30T | 22 × 30   | P30 | 2.072 | 0.99 |
|                                     | 150 | ESMH351VSN151MP35T | 22 × 35   | P35 | 1.658 | 1.14 |
|                                     | 180 | ESMH351VSN181MP40T | 22 × 40   | P40 | 1.381 | 1.28 |
|                                     | 220 | ESMH351VSN221MP45T | 22 × 45   | P45 | 1.13  | 1.44 |
|                                     | 270 | ESMH351VSN271MP50T | 22 × 50   | P50 | 0.921 | 1.64 |
|                                     | 82  | ESMH351VSN820MQ20T | 25.4 × 20 | Q20 | 3.032 | 0.67 |
|                                     | 120 | ESMH351VSN121MQ25T | 25.4 × 25 | Q25 | 2.072 | 0.99 |
|                                     | 150 | ESMH351VSN151MQ25T | 25.4 × 25 | Q25 | 1.658 | 1.1  |
|                                     | 180 | ESMH351VSN181MQ30T | 25.4 × 30 | Q30 | 1.381 | 1.24 |
|                                     | 220 | ESMH351VSN221MQ35T | 25.4 × 35 | Q35 | 1.13  | 1.44 |

† 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.

# SMH Series

## 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 +85°C, 120Hz |
|--------------------------------------|--------------------|---------------------|-------------------------------|----------------|---------------------------------|--|
| <b>350 Volts<br/>400 Volts Surge</b> | 270                | ESMH351VSN271MQ40T  | 25.4 × 40                     | Q40            | 0.921                           | 1.63   |
|                                      | 330                | ESMH351VSN331MQ50T  | 25.4 × 50                     | Q50            | 0.753                           | 1.88   |
|                                      | 120                | ESMH351VSN121MR20T  | 30 × 20                       | R20            | 2.072                           | 0.86   |
|                                      | 180                | ESMH351VSN181MR25T  | 30 × 25                       | R25            | 1.381                           | 1.27   |
|                                      | 220                | ESMH351VSN221MR30T  | 30 × 30                       | R30            | 1.13                            | 1.44   |
|                                      | 270                | ESMH351VSN271MR35T  | 30 × 35                       | R35            | 0.921                           | 1.66   |
|                                      | 330                | ESMH351VSN331MR35T  | 30 × 35                       | R35            | 0.753                           | 1.83   |
|                                      | 390                | ESMH351VSN391MR40T  | 30 × 40                       | R40            | 0.638                           | 2.06   |
|                                      | 470                | ESMH351VSN471MR50T  | 30 × 50                       | R50            | 0.529                           | 2.4  |
|                                      | 180                | ESMH351VSN181MA20T  | 35 × 20                       | A20            | 1.381                           | 1.1  |
|                                      | 220                | ESMH351VSN221MA25T  | 35 × 25                       | A25            | 1.13                            | 1.44   |
|                                      | 270                | ESMH351VSN271MA25T  | 35 × 25                       | A25            | 0.921                           | 1.63   |
|                                      | 330                | ESMH351VSN331MA30T  | 35 × 30                       | A30            | 0.753                           | 1.87   |
|                                      | 390                | ESMH351VSN391MA30T  | 35 × 30                       | A30            | 0.638                           | 2.03   |
|                                      | 470                | ESMH351VSN471MA35T  | 35 × 35                       | A35            | 0.529                           | 2.33   |
|                                      | 560                | ESMH351VSN561MA40T  | 35 × 40                       | A40            | 0.444                           | 2.6  |
|                                      | 680                | ESMH351VSN681MA45T  | 35 × 45                       | A45            | 0.366                           | 2.96   |
|                                      | 820                | ESMH351VSN821MA50T  | 35 × 50                       | A50            | 0.303                           | 3.04   |
|                                      | 1,000              | ESMH351VSN102MA63T  | 35 × 63                       | A63            | 0.249                           | 3.98   |
|                                      | 1,200              | ESMH351VSN122MA80T  | 35 × 80                       | A80            | 0.207                           | 4.67   |
|                                      | 330                | ESMH351VQT331MB25T  | 40 × 25                       | B25            | 0.753                           | 1.88   |
|                                      | 470                | ESMH351VQT471MB30T  | 40 × 30                       | B30            | 0.529                           | 2.35   |
|                                      | 560                | ESMH351VQT561MB35T  | 40 × 35                       | B35            | 0.444                           | 2.66   |
|                                      | 680                | ESMH351VQT681MB40T  | 40 × 40                       | B40            | 0.366                           | 3.02   |
| 1,000                                | ESMH351VQT102MB50T | 40 × 50             | B50                           | 0.249          | 3.89                            |  |
| 1,500                                | ESMH351VQT152MB63T | 40 × 63             | B63                           | 0.166          | 5.09                            |  |
| 1,800                                | ESMH351VQT182MB80T | 40 × 80             | B80                           | 0.138          | 6.07                            |  |
| <b>400 Volts<br/>450 Volts Surge</b> | 56                 | ESMH401VSN560MP20T  | 22 × 20                       | P20            | 4.44                            | 0.53   |
|                                      | 82                 | ESMH401VSN820MP25T  | 22 × 25                       | P25            | 3.032                           | 0.78   |
|                                      | 100                | ESMH401VSN101MP30T  | 22 × 30                       | P30            | 2.486                           | 0.9  |
|                                      | 120                | ESMH401VSN121MP35T  | 22 × 35                       | P35            | 2.072                           | 1.02   |
|                                      | 150                | ESMH401VSN151MP40T  | 22 × 40                       | P40            | 1.658                           | 1.16   |
|                                      | 180                | ESMH401VSN181MP45T  | 22 × 45                       | P45            | 1.381                           | 1.31   |
|                                      | 220                | ESMH401VSN221MP50T  | 22 × 50                       | P50            | 1.13                            | 1.49   |
|                                      | 270                | ESMH401VSN271MP50T  | 22 × 50                       | P50            | 0.921                           | 1.64   |
|                                      | 68                 | ESMH401VSN680MQ20T  | 25.4 × 20                     | Q20            | 3.656                           | 0.61   |
|                                      | 100                | ESMH401VSN101MQ25T  | 25.4 × 25                     | Q25            | 2.486                           | 0.9  |
|                                      | 120                | ESMH401VSN121MQ25T  | 25.4 × 25                     | Q25            | 2.072                           | 0.98   |
|                                      | 150                | ESMH401VSN151MQ30T  | 25.4 × 30                     | Q30            | 1.658                           | 1.14   |
|                                      | 180                | ESMH401VSN181MQ35T  | 25.4 × 35                     | Q35            | 1.381                           | 1.30   |
|                                      | 220                | ESMH401VSN221MQ40T  | 25.4 × 40                     | Q40            | 1.13                            | 1.47   |
|                                      | 270                | ESMH401VSN271MQ45T  | 25.4 × 45                     | Q45            | 0.921                           | 1.67   |
|                                      | 330                | ESMH401VSN331MQ50T  | 25.4 × 50                     | Q50            | 0.753                           | 1.88   |
|                                      | 100                | ESMH401VSN101MR20T  | 30 × 20                       | R20            | 2.486                           | 0.78   |
|                                      | 150                | ESMH401VSN151MR25T  | 30 × 25                       | R25            | 1.658                           | 1.16   |
|                                      | 180                | ESMH401VSN181MR30T  | 30 × 30                       | R30            | 1.381                           | 1.44   |
|                                      | 220                | ESMH401VSN221MR30T  | 30 × 30                       | R30            | 1.13                            | 1.47   |
|                                      | 270                | ESMH401VSN271MR35T  | 30 × 35                       | R35            | 0.921                           | 1.66   |
|                                      | 330                | ESMH401VSN331MR40T  | 30 × 40                       | R40            | 0.753                           | 1.9  |
|                                      | 390                | ESMH401VSN391MR45T  | 30 × 45                       | R45            | 0.638                           | 2.13   |
|                                      | 470                | ESMH401VSN471MR50T  | 30 × 50                       | R50            | 0.529                           | 2.4  |
|                                      | 150                | ESMH401VSN151MA20T  | 35 × 20                       | A20            | 1.658                           | 1.0  |
|                                      | 180                | ESMH401VSN181MA25T  | 35 × 25                       | A25            | 1.381                           | 1.32   |
|                                      | 220                | ESMH401VSN221MA25T  | 35 × 25                       | A25            | 1.13                            | 1.47   |
|                                      | 270                | ESMH401VSN271MA30T  | 35 × 30                       | A30            | 0.921                           | 1.69   |
|                                      | 330                | ESMH401VSN331MA30T  | 35 × 30                       | A30            | 0.753                           | 1.87   |
|                                      | 390                | ESMH401VSN391MA35T  | 35 × 35                       | A35            | 0.638                           | 2.08   |
|                                      | 470                | ESMH401VSN471MA40T  | 35 × 40                       | A40            | 0.529                           | 2.39   |
|                                      | 560                | ESMH401VSN561MA45T  | 35 × 45                       | A45            | 0.444                           | 2.69   |

† 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.



# SMH Series

## 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 +85°C, 120Hz |
|------------------------------|--------------------|---------------------|-------------------------------|----------------|---------------------------------|--|
| 400 Volts<br>450 Volts Surge | 680                | ESMH401VSN681MA50T  | 35 × 50                       | A50            | 0.366                           | 3.04   |
|                              | 820                | ESMH401VSN821MA63T  | 35 × 63                       | A63            | 0.303                           | 3.61   |
|                              | 1,200              | ESMH401VSN122MA80T  | 35 × 80                       | A80            | 0.207                           | 4.67   |
|                              | 270                | ESMH401VQT271MB25T  | 40 × 25                       | B25            | 0.921                           | 1.7  |
|                              | 390                | ESMH401VQT391MB30T  | 40 × 30                       | B30            | 0.638                           | 2.14   |
|                              | 560                | ESMH401VQT561MB35T  | 40 × 35                       | B35            | 0.444                           | 2.66   |
|                              | 680                | ESMH401VQT681MB40T  | 40 × 40                       | B40            | 0.366                           | 3.02   |
|                              | 820                | ESMH401VQT821MB50T  | 40 × 50                       | B50            | 0.303                           | 3.53   |
|                              | 1,200              | ESMH401VQT122MB63T  | 40 × 63                       | B63            | 0.207                           | 4.56   |
| 1,500                        | ESMH401VQT152MB80T | 40 × 80             | B80                           | 0.166          | 5.54                            |  |
| 450 Volts<br>500 Volts Surge | 56                 | ESMH451VSN560MP25T  | 22 × 25                       | P25            | 4.44                            | 0.65   |
|                              | 68                 | ESMH451VSN680MP25T  | 22 × 25                       | P25            | 3.656                           | 0.71   |
|                              | 82                 | ESMH451VSN820MP30T  | 22 × 30                       | P30            | 3.032                           | 0.82   |
|                              | 100                | ESMH451VSN101MP35T  | 22 × 35                       | P35            | 2.486                           | 0.93   |
|                              | 120                | ESMH451VSN121MP40T  | 22 × 40                       | P40            | 2.072                           | 1.04   |
|                              | 150                | ESMH451VSN151MP45T  | 22 × 45                       | P45            | 1.658                           | 1.19   |
|                              | 180                | ESMH451VSN181MP50T  | 22 × 50                       | P50            | 1.381                           | 1.34   |
|                              | 82                 | ESMH451VSN820MQ25T  | 25.4 × 25                     | Q25            | 3.032                           | 0.82   |
|                              | 100                | ESMH451VSN101MQ25T  | 25.4 × 25                     | Q25            | 2.486                           | 0.9  |
|                              | 120                | ESMH451VSN121MQ30T  | 25.4 × 30                     | Q30            | 2.072                           | 1.02   |
|                              | 150                | ESMH451VSN151MQ35T  | 25.4 × 35                     | Q35            | 1.658                           | 1.19   |
|                              | 180                | ESMH451VSN181MQ40T  | 25.4 × 40                     | Q40            | 1.381                           | 1.33   |
|                              | 220                | ESMH451VSN221MQ50T  | 25.4 × 50                     | Q50            | 1.13                            | 1.54   |
|                              | 120                | ESMH451VSN121MR25T  | 30 × 25                       | R25            | 2.072                           | 1.03   |
|                              | 150                | ESMH451VSN151MR30T  | 30 × 30                       | R30            | 1.658                           | 1.19   |
|                              | 180                | ESMH451VSN181MR35T  | 30 × 35                       | R35            | 1.381                           | 1.35   |
|                              | 220                | ESMH451VSN221MR40T  | 30 × 40                       | R40            | 1.13                            | 1.55   |
|                              | 270                | ESMH451VSN271MR45T  | 30 × 45                       | R45            | 0.921                           | 1.78   |
|                              | 330                | ESMH451VSN331MR50T  | 30 × 50                       | R50            | 0.753                           | 2.01   |
|                              | 150                | ESMH451VSN151MA25T  | 35 × 25                       | A25            | 1.658                           | 1.19   |
|                              | 180                | ESMH451VSN181MA25T  | 35 × 25                       | A25            | 1.381                           | 1.33   |
|                              | 220                | ESMH451VSN221MA30T  | 35 × 30                       | A30            | 1.13                            | 1.53   |
|                              | 270                | ESMH451VSN271MA35T  | 35 × 35                       | A35            | 0.921                           | 1.73   |
|                              | 330                | ESMH451VSN331MA40T  | 35 × 40                       | A40            | 0.753                           | 2.0  |
|                              | 390                | ESMH451VSN391MA45T  | 35 × 45                       | A45            | 0.638                           | 2.24   |
|                              | 470                | ESMH451VSN471MA50T  | 35 × 50                       | A50            | 0.529                           | 2.53   |
|                              | 560                | ESMH451VSN561MA63T  | 35 × 63                       | A63            | 0.444                           | 2.98   |
|                              | 820                | ESMH451VSN821MA80T  | 35 × 80                       | A80            | 0.303                           | 3.86   |
|                              | 220                | ESMH451VQT221MB25T  | 40 × 25                       | B25            | 1.13                            | 1.54   |
|                              | 270                | ESMH451VQT271MB30T  | 40 × 30                       | B30            | 0.921                           | 1.78   |
|                              | 390                | ESMH451VQT391MB35T  | 40 × 35                       | B35            | 0.638                           | 2.22   |
|                              | 470                | ESMH451VQT471MB40T  | 40 × 40                       | B40            | 0.529                           | 2.51   |
|                              | 680                | ESMH451VQT681MB50T  | 40 × 50                       | B50            | 0.366                           | 3.21   |
| 820                          | ESMH451VQT821MB63T | 40 × 63             | B63                           | 0.303          | 3.77                            |  |
| 1,200                        | ESMH451VQT122MB80T | 40 × 80             | B80                           | 0.207          | 4.96                            |  |

† 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.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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