

## Overview

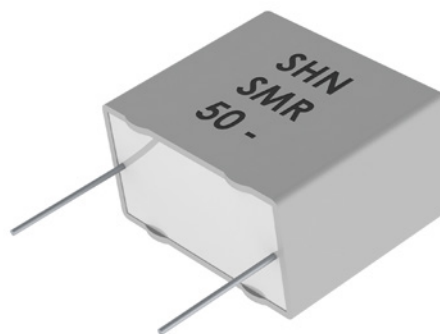
The SMR Series is a metallized polyphenylene sulfide film capacitor with vacuum-evaporated aluminum electrodes. Radial leads of tinned wire are electrically welded to the contact metal layer on the ends of the capacitor winding. The capacitor is encapsulated in self-extinguishing material meeting the requirements of UL 94 V-0.

## Applications

Typical applications include automotive and other applications with high ambient temperatures, as well as those requiring high stability and low losses. The capacitor offers excellent sound quality in audio applications.

## Benefits

- Voltage range: 50 – 400 VDC, 30 – 200 VAC
- Capacitance range: 0.001 – 12  $\mu$ F
- Lead spacing: 5 – 22.5 mm
- Capacitance tolerance:  $\pm 10\%$ ,  $\pm 20\%$ ,  $\pm 2.5\%$  and  $\pm 5\%$  on request
- Climatic category: 55/150/56, IEC 60068-1
- Tape & Reel packaging in accordance with IEC 60286-2
- RoHS compliant and lead-free terminations
- Category temperature range -55 to +150°C
- Rated temperature +125°C



## Legacy Part Number System

| SMR            | 5                                                             | 104                                                                                                                                                 | K                                                                    | 50                                                        | J01                 | L4                                       | BULK                       |
|----------------|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------|---------------------|------------------------------------------|----------------------------|
| Series         | Lead Spacing (mm)                                             | Capacitance Code (pF)                                                                                                                               | Capacitance Tolerance                                                | Rated Voltage (VDC)                                       | Size Code           | Lead Length                              | Packaging                  |
| Metallized PPS | 5 = 5.0<br>7.5 = 7.5<br>10 = 10.0<br>15 = 15.0<br>22.5 = 22.5 | First two digits indicate the two most significant digits of the capacitance value in picofarads. The third digit is the number of following zeros. | H = $\pm 2.5\%$<br>J = $\pm 5\%$<br>K = $\pm 10\%$<br>M = $\pm 20\%$ | 50 = 50<br>63 = 63<br>100 = 100<br>250 = 250<br>400 = 400 | See Dimension Table | Letter "L" followed by lead length in mm | See Ordering Options Table |

## KEMET Part Number System

| F               | 211            | J                                                      | F                   | 104                                                                                                                                                 | K                                                                    | 050                                                         | C                          |
|-----------------|----------------|--------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------|----------------------------|
| Capacitor Class | Series         | Lead Spacing (mm)                                      | Size Code           | Capacitance Code (pF)                                                                                                                               | Capacitance Tolerance                                                | Rated Voltage (VDC)                                         | Packaging                  |
| F = Film        | Metallized PPS | J = 5.0<br>K = 7.5<br>A = 10.0<br>B = 15.0<br>D = 22.5 | See Dimension Table | First two digits indicate the two most significant digits of the capacitance value in picofarads. The third digit is the number of following zeros. | R = $\pm 2.5\%$<br>J = $\pm 5\%$<br>K = $\pm 10\%$<br>M = $\pm 20\%$ | 050 = 50<br>063 = 63<br>100 = 100<br>250 = 250<br>400 = 400 | See Ordering Options Table |

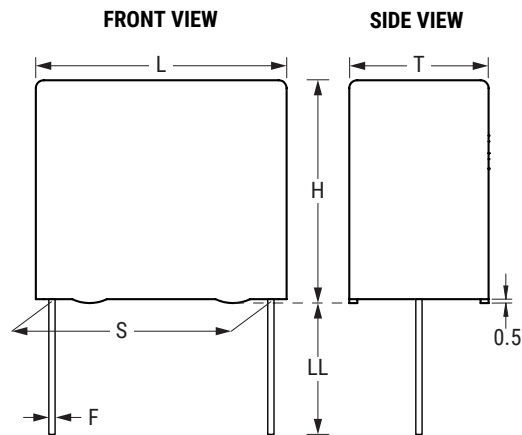
## Ordering Options Table

| Lead Spacing Nominal (mm)      | Type of Leads and Packaging                 | Lead Length (mm)           | KEMET Lead and Packaging Code | Legacy Lead and Packaging Code |
|--------------------------------|---------------------------------------------|----------------------------|-------------------------------|--------------------------------|
| 5                              | <b>Standard lead and packaging options:</b> |                            |                               |                                |
|                                | Bulk (bag) – short leads                    | 4.0 +1/-0                  | C                             | L4BULK                         |
|                                | Bulk (bag) – straight leads                 | 16.5 ±0.5                  | ALG5C                         | L16.5CBULK                     |
|                                | Tape & Reel (standard reel)                 | H <sub>0</sub> = 18.5 ±0.5 | L                             | L16.5TR18                      |
|                                | <b>Other lead and packaging options:</b>    |                            |                               |                                |
|                                | Ammo pack                                   | H <sub>0</sub> = 18.5 ±0.5 | R                             | L16.5TA18                      |
|                                | Tape & Reel (large reel)                    | H <sub>0</sub> = 18.5 ±0.5 | P                             | L16.5LR18                      |
| 7.5                            | <b>Standard lead and packaging options:</b> |                            |                               |                                |
|                                | Bulk (bag) – short leads                    | 4.0 +1/-0                  | C                             | L4BULK                         |
|                                | Bulk (bag) – straight leads                 | 16.5 ±0.5                  | ALG5C                         | L16.5CBULK                     |
|                                | Tape & Reel (standard reel)                 | H <sub>0</sub> = 18.5 ±0.5 | L                             | L16.5TR18                      |
|                                | <b>Other lead and packaging options:</b>    |                            |                               |                                |
|                                | Ammo pack                                   | H <sub>0</sub> = 18.5 ±0.5 | R                             | L16.5TA18                      |
|                                | Tape & Reel (large reel)                    | H <sub>0</sub> = 18.5 ±0.5 | P                             | L16.5LR18                      |
|                                | Ammo pack (P0 = 15mm)                       | H <sub>0</sub> = 18.5 ±0.5 | XLAF1                         | XA18                           |
| 10                             | <b>Standard lead and packaging options:</b> |                            |                               |                                |
|                                | Bulk (bag) – short leads                    | 4.0 +1/-0                  | C                             | L4BULK                         |
|                                | Bulk (bag) – straight leads                 | 16.5 ±0.5                  | ALG5C                         | L16.5CBULK                     |
|                                | Tape & Reel (standard reel)                 | H <sub>0</sub> = 18.5 ±0.5 | L                             | L16.5TR18                      |
|                                | <b>Other lead and packaging options:</b>    |                            |                               |                                |
|                                | Tape & Reel (large reel)                    | H <sub>0</sub> = 18.5 ±0.5 | P                             | L16.5LR18                      |
| <b>Native 10 formed to 7.5</b> | Ammo pack                                   | H <sub>0</sub> = 18.5 ±0.5 | XLAF1                         | L25.0CXA18                     |

## Ordering Options Table cont.

| Lead Spacing Nominal (mm)      | Type of Leads and Packaging                 | Lead Length (mm)           | KEMET Lead and Packaging Code | Legacy Lead and Packaging Code |
|--------------------------------|---------------------------------------------|----------------------------|-------------------------------|--------------------------------|
| 15                             | <b>Standard lead and packaging options:</b> |                            |                               |                                |
|                                | Bulk (bag) – short leads                    | 4.0 +1/-0                  | C                             | L4BULK                         |
|                                | Bulk (bag) – straight leads                 | 16.5 ±0.5                  | ALG5C                         | L16.5CBULK                     |
|                                | Tape & Reel (standard reel)                 | H <sub>0</sub> = 18.5 ±0.5 | L                             | L16.5TR18                      |
|                                | <b>Other lead and packaging options:</b>    |                            |                               |                                |
|                                | Tape & Reel (large reel)                    | H <sub>0</sub> = 18.5 ±0.5 | P                             | L16.5LR18                      |
| <b>Native 15 formed to 7.5</b> | Ammo pack                                   | H <sub>0</sub> = 18.5 ±0.5 | XLAF1                         | L25.0CXA18                     |
|                                | Tape & Reel (standard reel)                 | H <sub>0</sub> = 18.5 ±0.5 | XLTF1                         | L25.0CXR18                     |
| 22.5                           | <b>Standard lead and packaging options:</b> |                            |                               |                                |
|                                | Bulk (tray) - short leads                   | 4.0 +1/-0                  | C                             | L4TRAY                         |
|                                | Tape & Reel (standard reel)                 | H <sub>0</sub> = 18.5 ±0.5 | L                             | L16.5TR18                      |
|                                | Tape & Reel (large reel)                    | H <sub>0</sub> = 18.5 ±0.5 | P                             | L16.5LR18                      |

## Dimensions – Millimeters



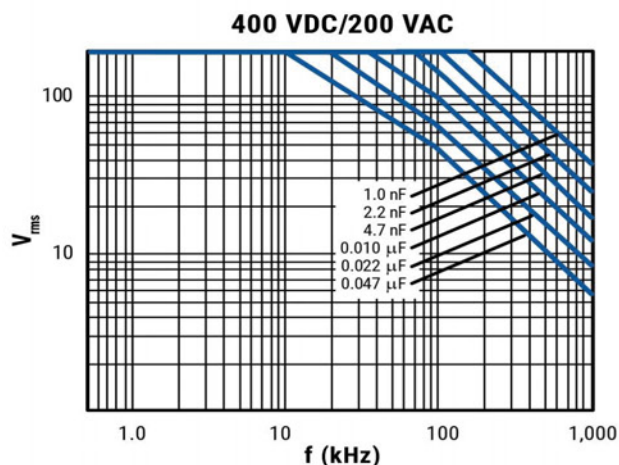
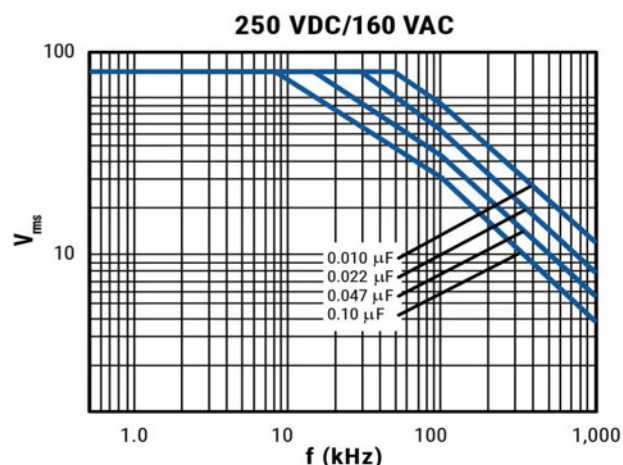
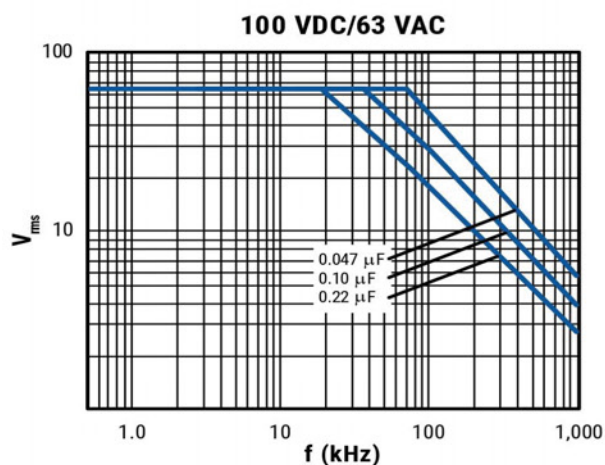
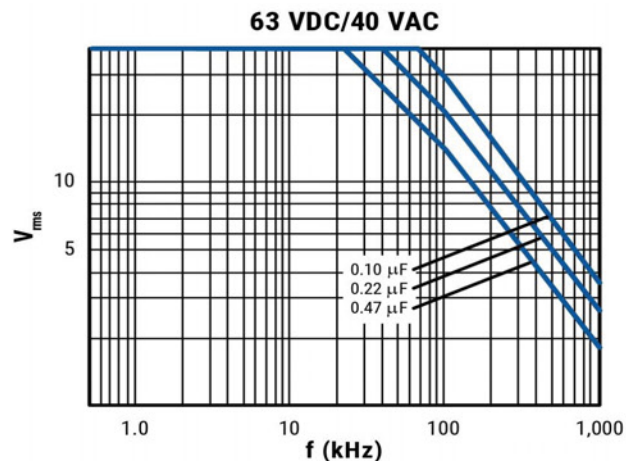
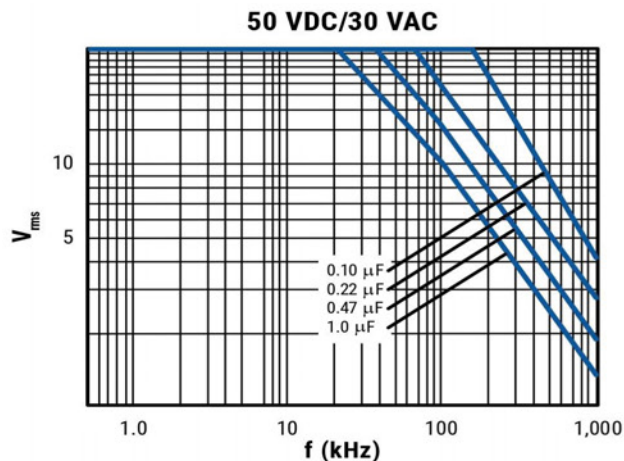
| KEMET<br>Size Code                                             | Legacy<br>Size Code | S       |           | T       |           | H       |           | L       |           | F       |           |
|----------------------------------------------------------------|---------------------|---------|-----------|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
|                                                                |                     | Nominal | Tolerance | Nominal | Tolerance | Nominal | Tolerance | Nominal | Tolerance | Nominal | Tolerance |
| JF                                                             | J01                 | 5.0     | ±0.4      | 2.5     | +0/-0.5   | 6.5     | +0/-0.5   | 7.2     | +0/-0.5   | 0.5     | ±0.05     |
| JJ                                                             | J02                 | 5.0     | ±0.4      | 3.5     | +0/-0.5   | 8.0     | +0/-0.5   | 7.2     | +0/-0.5   | 0.5     | ±0.05     |
| JL                                                             | J03                 | 5.0     | ±0.4      | 4.5     | +0/-0.5   | 9.0     | +0/-0.5   | 7.2     | +0/-0.5   | 0.5     | ±0.05     |
| JQ                                                             | J04                 | 5.0     | ±0.4      | 5.0     | +0/-0.5   | 10.0    | +0/-0.5   | 7.2     | +0/-0.5   | 0.5     | ±0.05     |
| JT                                                             | J05                 | 5.0     | ±0.4      | 6.0     | +0/-0.5   | 11.0    | +0/-0.5   | 7.2     | +0/-0.5   | 0.5     | ±0.05     |
| JU                                                             | J06                 | 5.0     | ±0.4      | 7.2     | +0/-0.5   | 13.0    | +0/-0.5   | 7.2     | +0/-0.5   | 0.5     | ±0.05     |
| KG                                                             | K01                 | 7.5     | ±0.4      | 4.0     | +0/-0.5   | 8.0     | +0/-0.5   | 10.0    | +0/-0.5   | 0.6     | ±0.05     |
| KK                                                             | K03                 | 7.5     | ±0.4      | 5.0     | +0/-0.5   | 11.0    | +0/-0.5   | 10.0    | +0/-0.5   | 0.6     | ±0.05     |
| KM                                                             | K04                 | 7.5     | ±0.4      | 6.0     | +0/-0.5   | 12.0    | +0/-0.5   | 10.5    | +0/-0.5   | 0.6     | ±0.05     |
| AG                                                             | A01                 | 10.0    | ±0.4      | 4.0     | +0/-0.5   | 9.0     | +0/-0.5   | 13.0    | +0/-0.5   | 0.6     | ±0.05     |
| AH                                                             | A02                 | 10.0    | ±0.4      | 4.5     | +0/-0.5   | 10.5    | +0/-0.5   | 13.0    | +0/-0.5   | 0.6     | ±0.05     |
| AK                                                             | A03                 | 10.0    | ±0.4      | 5.0     | +0/-0.5   | 11.0    | +0/-0.5   | 13.0    | +0/-0.5   | 0.6     | ±0.05     |
| AP                                                             | A04                 | 10.0    | ±0.4      | 6.0     | +0/-0.5   | 12.0    | +0/-0.5   | 13.0    | +0/-0.5   | 0.6     | ±0.05     |
| BD                                                             | B04                 | 15.0    | ±0.4      | 5.5     | +0/-0.5   | 10.5    | +0/-0.5   | 18.0    | +0/-0.5   | 0.8     | ±0.05     |
| BE                                                             | B05                 | 15.0    | ±0.4      | 5.5     | +0/-0.5   | 12.5    | +0/-0.5   | 18.0    | +0/-0.5   | 0.8     | ±0.05     |
| BL                                                             | B06                 | 15.0    | ±0.4      | 7.5     | +0/-0.5   | 14.5    | +0/-0.5   | 18.0    | +0/-0.5   | 0.8     | ±0.05     |
| BJ                                                             | B10                 | 15.0    | ±0.4      | 6.5     | +0/-0.5   | 12.5    | +0/-0.5   | 18.0    | +0/-0.5   | 0.8     | ±0.05     |
| BQ                                                             | B11                 | 15.0    | ±0.4      | 8.5     | +0/-0.5   | 16.0    | +0/-0.5   | 18.0    | +0/-0.5   | 0.8     | ±0.05     |
| BM                                                             | B12                 | 15.0    | ±0.4      | 8.0     | +0/-0.5   | 15.0    | +0/-0.5   | 18.0    | +0/-0.5   | 0.8     | ±0.05     |
| BV                                                             | B14                 | 15.0    | ±0.4      | 9.5     | +0/-0.5   | 17.5    | +0/-0.5   | 18.0    | +0/-0.5   | 0.8     | ±0.05     |
| DD                                                             | D13                 | 22.5    | ±0.4      | 6.5     | +0/-0.5   | 14.5    | +0/-0.5   | 26.0    | +0/-0.5   | 0.8     | ±0.05     |
| DH                                                             | D14                 | 22.5    | ±0.4      | 8.0     | +0/-0.5   | 16.0    | +0/-0.5   | 26.0    | +0/-0.5   | 0.8     | ±0.05     |
| DM                                                             | D15                 | 22.5    | ±0.4      | 9.0     | +0/-0.5   | 18.5    | +0/-0.5   | 26.0    | +0/-0.5   | 0.8     | ±0.05     |
| DT                                                             | D16                 | 22.5    | ±0.4      | 11.0    | +0/-0.5   | 21.5    | +0/-0.5   | 26.0    | +0/-0.5   | 0.8     | ±0.05     |
| DF                                                             | D17                 | 22.5    | ±0.4      | 7.0     | +0/-0.5   | 16.5    | +0/-0.5   | 26.0    | +0/-0.5   | 0.8     | ±0.05     |
| DR                                                             | D18                 | 22.5    | ±0.4      | 10.5    | +0/-0.5   | 19.0    | +0/-0.5   | 26.0    | +0/-0.5   | 0.8     | ±0.05     |
| Note: See Ordering Options Table for lead length (LL) options. |                     |         |           |         |           |         |           |         |           |         |           |

## Performance Characteristics

|                                    |                                                                                                                     |             |             |                     |              |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------|-------------|---------------------|--------------|
| Rated voltage V <sub>R</sub> (VDC) | 50                                                                                                                  | 63          | 100         | 250                 | 400          |
| Rated voltage V <sub>R</sub> (VAC) | 30                                                                                                                  | 40          | 63          | 160                 | 200          |
| Capacitance range (μF)             | 0.001 – 12                                                                                                          | 0.001 – 8.2 | 0.001 – 4.7 | 0.001 – 1.5         | 0.001 – 0.68 |
| Capacitance tolerance              | ±10%, ±20%, ±2.5% and ±5% on request                                                                                |             |             |                     |              |
| Temperature range                  | –55 to +150°C                                                                                                       |             |             |                     |              |
| Rated temperature                  | +125°C                                                                                                              |             |             |                     |              |
| Voltage derating                   | From +125°C, the voltage derating is 2%/°C                                                                          |             |             |                     |              |
| Climatic category                  | IEC 60068–1, 55/150/56                                                                                              |             |             |                     |              |
|                                    | DIN 40040, FKD                                                                                                      |             |             |                     |              |
| Test voltage                       | 1.6 x V <sub>R</sub> for 2 seconds                                                                                  |             |             |                     |              |
| Reliability                        | Operational life > 200,000 hours                                                                                    |             |             |                     |              |
|                                    | Failure rate < 3 FIT, T = +40°C, V = 0.5 x V <sub>R</sub>                                                           |             |             |                     |              |
|                                    | Failure criteria according to DIN 44122                                                                             |             |             |                     |              |
| Capacitance drift                  | Maximum 0.3% after a two year storage period at a temperature of +10° to +40°C and a relative humidity of 40 to 60% |             |             |                     |              |
| Insulation resistance              | Measured at +20°C, according to IEC 60384–1                                                                         |             |             |                     |              |
|                                    | Minimum Values Between Terminals                                                                                    |             |             |                     |              |
|                                    |                                                                                                                     | C ≤ 0.33 μF |             | C > 0.33 μF         |              |
|                                    | V <sub>R</sub> ≤ 100 V                                                                                              | 15,000 MΩ   |             | 5,000 MΩ • μF       |              |
|                                    | V <sub>R</sub> > 100 V                                                                                              | 30,000 MΩ   |             | 10,000 MΩ • μF      |              |
| Dissipation factor                 | Maximum Values at +23°C                                                                                             |             |             |                     |              |
| Lead spacing                       |                                                                                                                     |             | C ≤ 0.1 μF  | 0.1 μF < C ≤ 1.0 μF | C > 1.0 μF   |
| SMR 5                              | 1 kHz                                                                                                               |             | 0.15%       | 0.15%               | 0.15%        |
|                                    | 10 kHz                                                                                                              |             | 0.25%       | 0.25%               | 0.35%        |
|                                    | 100 kHz                                                                                                             |             | 0.50%       | 0.60%               |              |
| SMR 7.5 to 22.5                    | 1 kHz                                                                                                               |             | 0.15%       | 0.15%               | 0.15%        |
|                                    | 10 kHz                                                                                                              |             | 0.25%       | 0.25%               |              |
|                                    | 100 kHz                                                                                                             |             | 0.60%       |                     |              |

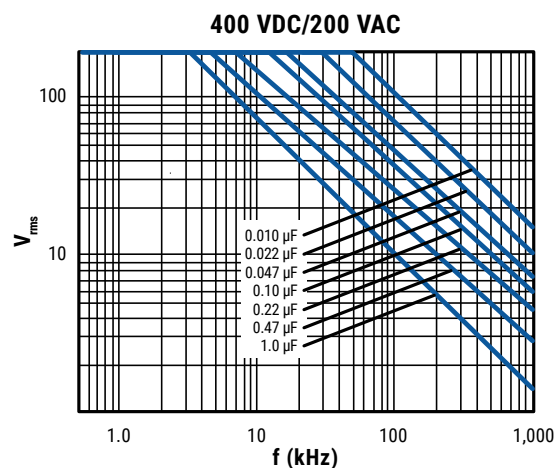
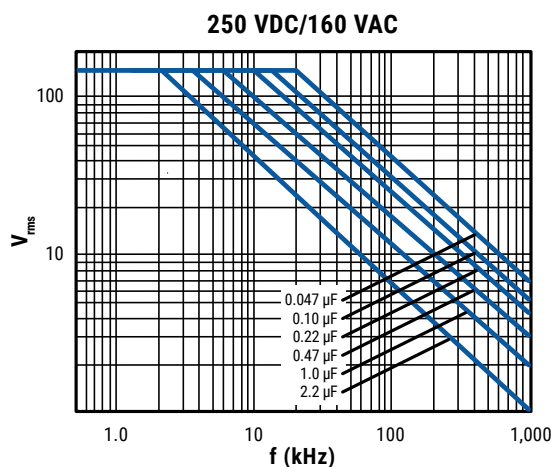
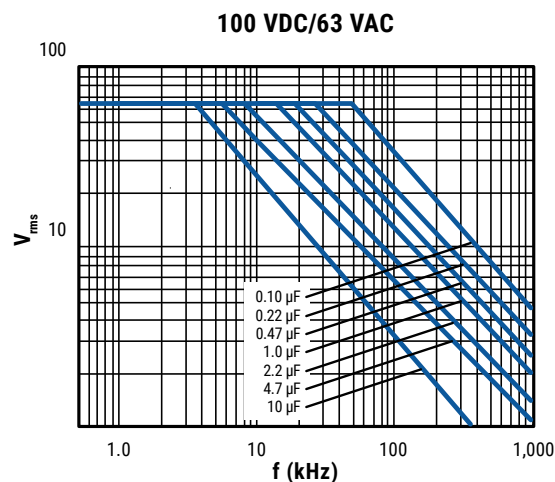
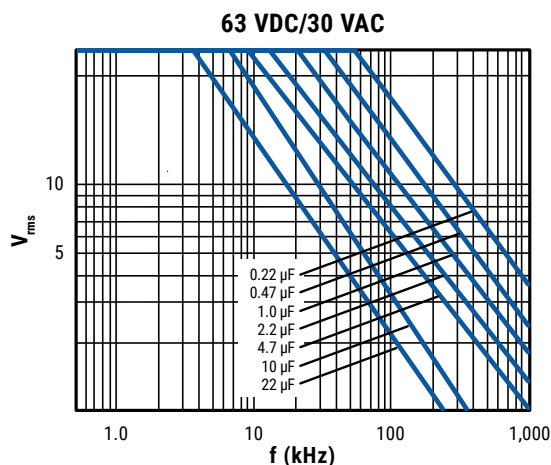
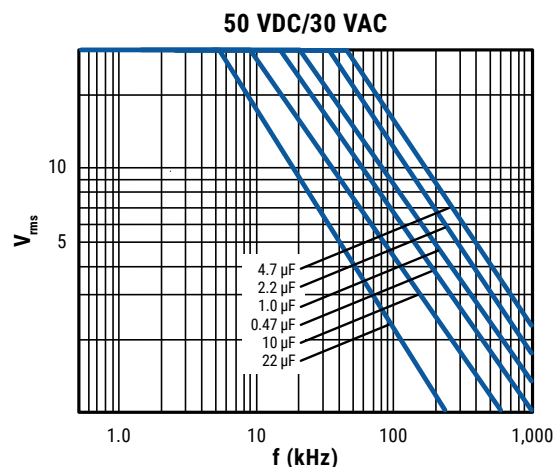
## Derating of $V_{rms}$ vs. Frequency, +100°C Ambient Temperature & 20°C Internal Heating, Typical Values

Lead spacing 5.0 mm



## Derating of $V_{rms}$ vs. Frequency, +100°C Ambient Temperature & 20°C Internal Heating, Typical Values (cont.)

Lead spacing 7.5 – 22.5 mm



## Environmental Test Data

| Damp Heat Test  |                                                    |
|-----------------|----------------------------------------------------|
| Test Conditions | T = +40°C, RH = 93%, t = 56 days                   |
| Test Criteria   | $\Delta C/C \leq \pm 3\%$                          |
|                 | $\Delta \tan \delta \leq 0.0025$ (1 kHz)           |
|                 | IR after test 0.5 x IR minimum                     |
| Endurance Test  |                                                    |
| Test Conditions | T = +125°C, V = 1.25 x (0.5 x V <sub>R</sub> )     |
| Test Criteria   | t = 2,000 hours                                    |
|                 | $\Delta C/C \leq \pm 3\%$                          |
|                 | $\Delta \tan \delta \leq 0.002$ (1 kHz), C > 1 µF  |
|                 | $\Delta \tan \delta \leq 0.003$ (10 kHz), C ≤ 1 µF |
|                 | IR after test 0.5 x IR minimum                     |

## Environmental Compliance

All KEMET PPS capacitors are RoHS compliant.





**Table 1 – Ratings & Part Number Reference**

| VDC | VAC | Capacitance Value (µF) | Size Code (New/Legacy) | Maximum Dimensions in mm |        |        | Lead Spacing (S) | dV/dt (V/µs) | KEMET Part Number  | Legacy Part Number   |
|-----|-----|------------------------|------------------------|--------------------------|--------|--------|------------------|--------------|--------------------|----------------------|
|     |     |                        |                        | T                        | H      | L      |                  |              |                    |                      |
| 50  | 30  | 0.001                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF102(1)050(2) | SMR5102(3)50J01(2)   |
| 50  | 30  | 0.0012                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF122(1)050(2) | SMR5122(3)50J01(2)   |
| 50  | 30  | 0.0015                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF152(1)050(2) | SMR5152(3)50J01(2)   |
| 50  | 30  | 0.0018                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF182(1)050(2) | SMR5182(3)50J01(2)   |
| 50  | 30  | 0.0022                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF222(1)050(2) | SMR5222(3)50J01(2)   |
| 50  | 30  | 0.0027                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF272(1)050(2) | SMR5272(3)50J01(2)   |
| 50  | 30  | 0.0033                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF332(1)050(2) | SMR5332(3)50J01(2)   |
| 50  | 30  | 0.0039                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF392(1)050(2) | SMR5392(3)50J01(2)   |
| 50  | 30  | 0.0047                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 20           | F211JF472(1)050(2) | SMR5472(3)50J01(2)   |
| 50  | 30  | 0.0056                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 20           | F211JF562(1)050(2) | SMR5562(3)50J01(2)   |
| 50  | 30  | 0.0068                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 20           | F211JF682(1)050(2) | SMR5682(3)50J01(2)   |
| 50  | 30  | 0.0082                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 20           | F211JF822(1)050(2) | SMR5822(3)50J01(2)   |
| 50  | 30  | 0.01                   | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 20           | F211JF103(1)050(2) | SMR5103(3)50J01(2)   |
| 50  | 30  | 0.012                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 15           | F211JF123(1)050(2) | SMR5123(3)50J01(2)   |
| 50  | 30  | 0.015                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 15           | F211JF153(1)050(2) | SMR5153(3)50J01(2)   |
| 50  | 30  | 0.018                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 15           | F211JF183(1)050(2) | SMR5183(3)50J01(2)   |
| 50  | 30  | 0.022                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 15           | F211JF223(1)050(2) | SMR5223(3)50J01(2)   |
| 50  | 30  | 0.027                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 15           | F211JF273(1)050(2) | SMR5273(3)50J01(2)   |
| 50  | 30  | 0.033                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 15           | F211JF333(1)050(2) | SMR5333(3)50J01(2)   |
| 50  | 30  | 0.039                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 15           | F211JF393(1)050(2) | SMR5393(3)50J01(2)   |
| 50  | 30  | 0.047                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 6            | F211JF473(1)050(2) | SMR5473(3)50J01(2)   |
| 50  | 30  | 0.056                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 6            | F211JF563(1)050(2) | SMR5563(3)50J01(2)   |
| 50  | 30  | 0.068                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 6            | F211JF683(1)050(2) | SMR5683(3)50J01(2)   |
| 50  | 30  | 0.082                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 6            | F211JF823(1)050(2) | SMR5823(3)50J01(2)   |
| 50  | 30  | 0.1                    | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 6            | F211JF104(1)050(2) | SMR5104(3)50J01(2)   |
| 50  | 30  | 0.12                   | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 6            | F211JF124(1)050(2) | SMR5124(3)50J01(2)   |
| 50  | 30  | 0.15                   | JJ/J02                 | 3.5                      | 8      | 7.2    | 5                | 6            | F211JJ154(1)050(2) | SMR5154(3)50J02(2)   |
| 50  | 30  | 0.18                   | JJ/J02                 | 3.5                      | 8      | 7.2    | 5                | 6            | F211JJ184(1)050(2) | SMR5184(3)50J02(2)   |
| 50  | 30  | 0.22                   | JJ/J02                 | 3.5                      | 8      | 7.2    | 5                | 6            | F211JJ224(1)050(2) | SMR5224(3)50J02(2)   |
| 50  | 30  | 0.27                   | JJ/J02                 | 3.5                      | 8      | 7.2    | 5                | 6            | F211JJ274(1)050(2) | SMR5274(3)50J02(2)   |
| 50  | 30  | 0.33                   | JL/J03                 | 4.5                      | 9      | 7.2    | 5                | 6            | F211JL334(1)050(2) | SMR5334(3)50J03(2)   |
| 50  | 30  | 0.39                   | JL/J03                 | 4.5                      | 9      | 7.2    | 5                | 6            | F211JL394(1)050(2) | SMR5394(3)50J03(2)   |
| 50  | 30  | 0.47                   | JQ/J04                 | 5                        | 10     | 7.2    | 5                | 6            | F211JQ474(1)050(2) | SMR5474(3)50J04(2)   |
| 50  | 30  | 0.56                   | JQ/J04                 | 5                        | 10     | 7.2    | 5                | 6            | F211JQ564(1)050(2) | SMR5564(3)50J04(2)   |
| 50  | 30  | 0.68                   | JT/J05                 | 6                        | 11     | 7.2    | 5                | 6            | F211JT684(1)050(2) | SMR5684(3)50J05(2)   |
| 50  | 30  | 0.82                   | JT/J05                 | 6                        | 11     | 7.2    | 5                | 6            | F211JT824(1)050(2) | SMR5824(3)50J05(2)   |
| 50  | 30  | 1                      | JU/J06                 | 7.2                      | 13     | 7.2    | 5                | 6            | F211JU105(1)050(2) | SMR5105(3)50J06(2)   |
| 50  | 30  | 1.2                    | JU/J06                 | 7.2                      | 13     | 7.2    | 5                | 6            | F211JU125(1)050(2) | SMR5125(3)50J06(2)   |
| 50  | 30  | 0.001                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG102(1)050(2) | SMR7.5102(3)50K01(2) |
| 50  | 30  | 0.0012                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG122(1)050(2) | SMR7.5122(3)50K01(2) |
| 50  | 30  | 0.0015                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG152(1)050(2) | SMR7.5152(3)50K01(2) |
| 50  | 30  | 0.0018                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG182(1)050(2) | SMR7.5182(3)50K01(2) |
| 50  | 30  | 0.0022                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG222(1)050(2) | SMR7.5222(3)50K01(2) |
| 50  | 30  | 0.0027                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG272(1)050(2) | SMR7.5272(3)50K01(2) |
| 50  | 30  | 0.0033                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG332(1)050(2) | SMR7.5332(3)50K01(2) |
| 50  | 30  | 0.0039                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG392(1)050(2) | SMR7.5392(3)50K01(2) |
| 50  | 30  | 0.0047                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG472(1)050(2) | SMR7.5472(3)50K01(2) |
| 50  | 30  | 0.0056                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG562(1)050(2) | SMR7.5562(3)50K01(2) |
| 50  | 30  | 0.0068                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG682(1)050(2) | SMR7.5682(3)50K01(2) |
| 50  | 30  | 0.0082                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG822(1)050(2) | SMR7.5822(3)50K01(2) |
| 50  | 30  | 0.01                   | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG103(1)050(2) | SMR7.5103(3)50K01(2) |
| 50  | 30  | 0.012                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG123(1)050(2) | SMR7.5123(3)50K01(2) |
| 50  | 30  | 0.015                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG153(1)050(2) | SMR7.5153(3)50K01(2) |
| 50  | 30  | 0.018                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG183(1)050(2) | SMR7.5183(3)50K01(2) |
| 50  | 30  | 0.022                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG223(1)050(2) | SMR7.5223(3)50K01(2) |
| 50  | 30  | 0.027                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 20           | F211KG273(1)050(2) | SMR7.5273(3)50K01(2) |
| VDC | VAC | Capacitance Value (µF) | Size Code (New/Legacy) | T (mm)                   | H (mm) | L (mm) | Lead Spacing (S) | dV/dt (V/µs) | KEMET Part Number  | Legacy Part Number   |

(1) R = ±2.5%, J = ±5%, K = ±10%, M = ±20%

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

(3) H = ±2.5%, J = ±5%, K = ±10%, M = ±20%

**Table 1 – Ratings & Part Number Reference cont.**

| VDC | VAC | Capacitance Value (µF) | Size Code (New/Legacy) | Maximum Dimensions in mm |        |        | Lead Spacing (S) | dV/dt (V/µs) | KEMET Part Number  | Legacy Part Number   |
|-----|-----|------------------------|------------------------|--------------------------|--------|--------|------------------|--------------|--------------------|----------------------|
|     |     |                        |                        | T                        | H      | L      |                  |              |                    |                      |
| 50  | 30  | 0.033                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 20           | F211KG333(1)050(2) | SMR7.5333(3)50K01(2) |
| 50  | 30  | 0.039                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 20           | F211KG393(1)050(2) | SMR7.5393(3)50K01(2) |
| 50  | 30  | 0.047                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 20           | F211KG473(1)050(2) | SMR7.5473(3)50K01(2) |
| 50  | 30  | 0.056                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 15           | F211KG563(1)050(2) | SMR7.5563(3)50K01(2) |
| 50  | 30  | 0.068                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 15           | F211KG683(1)050(2) | SMR7.5683(3)50K01(2) |
| 50  | 30  | 0.082                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 15           | F211KG823(1)050(2) | SMR7.5823(3)50K01(2) |
| 50  | 30  | 0.1                    | KG/K01                 | 4                        | 8      | 10     | 7.5              | 15           | F211KG104(1)050(2) | SMR7.5104(3)50K01(2) |
| 50  | 30  | 0.12                   | KG/K01                 | 4                        | 8      | 10     | 7.5              | 15           | F211KG124(1)050(2) | SMR7.5124(3)50K01(2) |
| 50  | 30  | 0.15                   | KG/K01                 | 4                        | 8      | 10     | 7.5              | 10           | F211KG154(1)050(2) | SMR7.5154(3)50K01(2) |
| 50  | 30  | 0.18                   | KG/K01                 | 4                        | 8      | 10     | 7.5              | 10           | F211KG184(1)050(2) | SMR7.5184(3)50K01(2) |
| 50  | 30  | 0.22                   | KG/K01                 | 4                        | 8      | 10     | 7.5              | 10           | F211KG224(1)050(2) | SMR7.5224(3)50K01(2) |
| 50  | 30  | 0.27                   | KG/K01                 | 4                        | 8      | 10     | 7.5              | 10           | F211KG274(1)050(2) | SMR7.5274(3)50K01(2) |
| 50  | 30  | 0.33                   | KG/K01                 | 4                        | 8      | 10     | 7.5              | 10           | F211KG334(1)050(2) | SMR7.5334(3)50K01(2) |
| 50  | 30  | 0.39                   | KG/K01                 | 4                        | 8      | 10     | 7.5              | 10           | F211KG394(1)050(2) | SMR7.5394(3)50K01(2) |
| 50  | 30  | 0.47                   | KK/K03                 | 5                        | 11     | 10     | 7.5              | 10           | F211KK474(1)050(2) | SMR7.5474(3)50K03(2) |
| 50  | 30  | 0.56                   | KK/K03                 | 5                        | 11     | 10     | 7.5              | 10           | F211KK564(1)050(2) | SMR7.5564(3)50K03(2) |
| 50  | 30  | 0.68                   | KK/K03                 | 5                        | 11     | 10     | 7.5              | 10           | F211KK684(1)050(2) | SMR7.5684(3)50K03(2) |
| 50  | 30  | 0.82                   | KK/K03                 | 5                        | 11     | 10     | 7.5              | 10           | F211KK824(1)050(2) | SMR7.5824(3)50K03(2) |
| 50  | 30  | 1                      | KM/K04                 | 6                        | 12     | 10.5   | 7.5              | 10           | F211KM105(1)050(2) | SMR7.5105(3)50K04(2) |
| 50  | 30  | 1.2                    | KM/K04                 | 6                        | 12     | 10.5   | 7.5              | 10           | F211KM125(1)050(2) | SMR7.5125(3)50K04(2) |
| 50  | 30  | 0.0027                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG272(1)050(2) | SMR10272(3)50A01(2)  |
| 50  | 30  | 0.0033                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG332(1)050(2) | SMR10332(3)50A01(2)  |
| 50  | 30  | 0.0039                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG392(1)050(2) | SMR10392(3)50A01(2)  |
| 50  | 30  | 0.0047                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG472(1)050(2) | SMR10472(3)50A01(2)  |
| 50  | 30  | 0.0056                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG562(1)050(2) | SMR10562(3)50A01(2)  |
| 50  | 30  | 0.0068                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG682(1)050(2) | SMR10682(3)50A01(2)  |
| 50  | 30  | 0.0082                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG822(1)050(2) | SMR10822(3)50A01(2)  |
| 50  | 30  | 0.01                   | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG103(1)050(2) | SMR10103(3)50A01(2)  |
| 50  | 30  | 0.012                  | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG123(1)050(2) | SMR10123(3)50A01(2)  |
| 50  | 30  | 0.015                  | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG153(1)050(2) | SMR10153(3)50A01(2)  |
| 50  | 30  | 0.018                  | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG183(1)050(2) | SMR10183(3)50A01(2)  |
| 50  | 30  | 0.022                  | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG223(1)050(2) | SMR10223(3)50A01(2)  |
| 50  | 30  | 0.027                  | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG273(1)050(2) | SMR10273(3)50A01(2)  |
| 50  | 30  | 0.033                  | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG333(1)050(2) | SMR10333(3)50A01(2)  |
| 50  | 30  | 0.039                  | AG/A01                 | 4                        | 9      | 13     | 10               | 15           | F211AG393(1)050(2) | SMR10393(3)50A01(2)  |
| 50  | 30  | 0.047                  | AG/A01                 | 4                        | 9      | 13     | 10               | 15           | F211AG473(1)050(2) | SMR10473(3)50A01(2)  |
| 50  | 30  | 0.056                  | AG/A01                 | 4                        | 9      | 13     | 10               | 15           | F211AG563(1)050(2) | SMR10563(3)50A01(2)  |
| 50  | 30  | 0.068                  | AG/A01                 | 4                        | 9      | 13     | 10               | 15           | F211AG683(1)050(2) | SMR10683(3)50A01(2)  |
| 50  | 30  | 0.082                  | AG/A01                 | 4                        | 9      | 13     | 10               | 10           | F211AG823(1)050(2) | SMR10823(3)50A01(2)  |
| 50  | 30  | 0.1                    | AG/A01                 | 4                        | 9      | 13     | 10               | 10           | F211AG104(1)050(2) | SMR10104(3)50A01(2)  |
| 50  | 30  | 0.12                   | AG/A01                 | 4                        | 9      | 13     | 10               | 10           | F211AG124(1)050(2) | SMR10124(3)50A01(2)  |
| 50  | 30  | 0.15                   | AG/A01                 | 4                        | 9      | 13     | 10               | 10           | F211AG154(1)050(2) | SMR10154(3)50A01(2)  |
| 50  | 30  | 0.18                   | AG/A01                 | 4                        | 9      | 13     | 10               | 10           | F211AG184(1)050(2) | SMR10184(3)50A01(2)  |
| 50  | 30  | 0.22                   | AG/A01                 | 4                        | 9      | 13     | 10               | 10           | F211AG224(1)050(2) | SMR10224(3)50A01(2)  |
| 50  | 30  | 0.27                   | AG/A01                 | 4                        | 9      | 13     | 10               | 8            | F211AG274(1)050(2) | SMR10274(3)50A01(2)  |
| 50  | 30  | 0.33                   | AG/A01                 | 4                        | 9      | 13     | 10               | 8            | F211AG334(1)050(2) | SMR10334(3)50A01(2)  |
| 50  | 30  | 0.39                   | AG/A01                 | 4                        | 9      | 13     | 10               | 8            | F211AG394(1)050(2) | SMR10394(3)50A01(2)  |
| 50  | 30  | 0.47                   | AG/A01                 | 4                        | 9      | 13     | 10               | 8            | F211AG474(1)050(2) | SMR10474(3)50A01(2)  |
| 50  | 30  | 0.56                   | AG/A01                 | 4                        | 9      | 13     | 10               | 8            | F211AG564(1)050(2) | SMR10564(3)50A01(2)  |
| 50  | 30  | 0.68                   | AG/A01                 | 4                        | 9      | 13     | 10               | 8            | F211AG684(1)050(2) | SMR10684(3)50A01(2)  |
| 50  | 30  | 0.82                   | AH/A02                 | 4.5                      | 10.5   | 13     | 10               | 8            | F211AH824(1)050(2) | SMR10824(3)50A02(2)  |
| 50  | 30  | 1                      | AK/A03                 | 4.5                      | 10.5   | 13     | 10               | 8            | F211AK105(1)050(2) | SMR10105(3)50A03(2)  |
| 50  | 30  | 1.2                    | AK/A03                 | 5                        | 11     | 13     | 10               | 8            | F211AK125(1)050(2) | SMR10125(3)50A03(2)  |
| 50  | 30  | 1.5                    | AP/A04                 | 6                        | 12     | 13     | 10               | 8            | F211AP155(1)050(2) | SMR10155(3)50A04(2)  |
| 50  | 30  | 1.8                    | AP/A04                 | 6                        | 12     | 13     | 10               | 8            | F211AP185(1)050(2) | SMR10185(3)50A04(2)  |
| 50  | 30  | 2.2                    | BJ/B10                 | 6.5                      | 12.5   | 18     | 15               | 6            | F211BJ225(1)050(2) | SMR15225(3)50B10(2)  |
| VDC | VAC | Capacitance Value (µF) | Size Code (New/Legacy) | T (mm)                   | H (mm) | L (mm) | Lead Spacing (S) | dV/dt (V/µs) | KEMET Part Number  | Legacy Part Number   |

(1) R = ±2.5%, J = ±5%, K = ±10%, M = ±20%

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

(3) H = ±2.5%, J = ±5%, K = ±10%, M = ±20%

**Table 1 – Ratings & Part Number Reference cont.**

| VDC | VAC | Capacitance Value (µF) | Size Code (New/Legacy) | Maximum Dimensions in mm |        |        | Lead Spacing (S) | dV/dt (V/µs) | KEMET Part Number  | Legacy Part Number    |
|-----|-----|------------------------|------------------------|--------------------------|--------|--------|------------------|--------------|--------------------|-----------------------|
|     |     |                        |                        | T                        | H      | L      |                  |              |                    |                       |
| 50  | 30  | 2.7                    | BL/B06                 | 7.5                      | 14.5   | 18     | 15               | 6            | F211BL275(1)050(2) | SMR15275(3)50B06(2)   |
| 50  | 30  | 3.3                    | BL/B06                 | 7.5                      | 14.5   | 18     | 15               | 6            | F211BL335(1)050(2) | SMR15335(3)50B06(2)   |
| 50  | 30  | 3.9                    | BM/B12                 | 8                        | 15     | 18     | 15               | 6            | F211BM395(1)050(2) | SMR15395(3)50B12(2)   |
| 50  | 30  | 4.7                    | BV/B14                 | 8.5                      | 16     | 18     | 15               | 6            | F211BV475(1)050(2) | SMR15475(3)50B14(2)   |
| 50  | 30  | 5.6                    | BV/B14                 | 9.5                      | 17.5   | 18     | 15               | 6            | F211BV565(1)050(2) | SMR15565(3)50B14(2)   |
| 50  | 30  | 6.8                    | DM/D15                 | 9                        | 18.5   | 26     | 22.5             | 3            | F211DM685(1)050(2) | SMR22.5685(3)50D15(2) |
| 50  | 30  | 8.2                    | DM/D15                 | 9                        | 18.5   | 26     | 22.5             | 3            | F211DM825(1)050(2) | SMR22.5825(3)50D15(2) |
| 50  | 30  | 10                     | DR/D18                 | 10.5                     | 19     | 26     | 22.5             | 3            | F211DR106(1)050(2) | SMR22.5106(3)50D18(2) |
| 50  | 30  | 12                     | DT/D16                 | 11                       | 21.5   | 26     | 22.5             | 3            | F211DT126(1)050(2) | SMR22.5126(3)50D16(2) |
| 63  | 40  | 0.001                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF102(1)063(2) | SMR5102(3)63J01(2)    |
| 63  | 40  | 0.0012                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF122(1)063(2) | SMR5122(3)63J01(2)    |
| 63  | 40  | 0.0015                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF152(1)063(2) | SMR5152(3)63J01(2)    |
| 63  | 40  | 0.0018                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF182(1)063(2) | SMR5182(3)63J01(2)    |
| 63  | 40  | 0.0022                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF222(1)063(2) | SMR5222(3)63J01(2)    |
| 63  | 40  | 0.0027                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF272(1)063(2) | SMR5272(3)63J01(2)    |
| 63  | 40  | 0.0033                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF332(1)063(2) | SMR5332(3)63J01(2)    |
| 63  | 40  | 0.0039                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF392(1)063(2) | SMR5392(3)63J01(2)    |
| 63  | 40  | 0.0047                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 20           | F211JF472(1)063(2) | SMR5472(3)63J01(2)    |
| 63  | 40  | 0.0056                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 20           | F211JF562(1)063(2) | SMR5562(3)63J01(2)    |
| 63  | 40  | 0.0068                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 20           | F211JF682(1)063(2) | SMR5682(3)63J01(2)    |
| 63  | 40  | 0.0082                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 20           | F211JF822(1)063(2) | SMR5822(3)63J01(2)    |
| 63  | 40  | 0.01                   | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 20           | F211JF103(1)063(2) | SMR5103(3)63J01(2)    |
| 63  | 40  | 0.012                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 15           | F211JF123(1)063(2) | SMR5123(3)63J01(2)    |
| 63  | 40  | 0.015                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 15           | F211JF153(1)063(2) | SMR5153(3)63J01(2)    |
| 63  | 40  | 0.018                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 15           | F211JF183(1)063(2) | SMR5183(3)63J01(2)    |
| 63  | 40  | 0.022                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 15           | F211JF223(1)063(2) | SMR5223(3)63J01(2)    |
| 63  | 40  | 0.027                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 15           | F211JF273(1)063(2) | SMR5273(3)63J01(2)    |
| 63  | 40  | 0.033                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 15           | F211JF333(1)063(2) | SMR5333(3)63J01(2)    |
| 63  | 40  | 0.039                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 15           | F211JF393(1)063(2) | SMR5393(3)63J01(2)    |
| 63  | 40  | 0.047                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 6            | F211JF473(1)063(2) | SMR5473(3)63J01(2)    |
| 63  | 40  | 0.056                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 6            | F211JF563(1)063(2) | SMR5563(3)63J01(2)    |
| 63  | 40  | 0.068                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 6            | F211JF683(1)063(2) | SMR5683(3)63J01(2)    |
| 63  | 40  | 0.082                  | JJ/J02                 | 3.5                      | 8      | 7.2    | 5                | 6            | F211JJ823(1)063(2) | SMR5823(3)63J02(2)    |
| 63  | 40  | 0.1                    | JJ/J02                 | 3.5                      | 8      | 7.2    | 5                | 6            | F211JJ104(1)063(2) | SMR5104(3)63J02(2)    |
| 63  | 40  | 0.12                   | JJ/J02                 | 3.5                      | 8      | 7.2    | 5                | 6            | F211JJ124(1)063(2) | SMR5124(3)63J02(2)    |
| 63  | 40  | 0.15                   | JJ/J02                 | 3.5                      | 8      | 7.2    | 5                | 6            | F211JJ154(1)063(2) | SMR5154(3)63J02(2)    |
| 63  | 40  | 0.18                   | JL/J03                 | 4.5                      | 9      | 7.2    | 5                | 6            | F211JL184(1)063(2) | SMR5184(3)63J03(2)    |
| 63  | 40  | 0.22                   | JL/J03                 | 4.5                      | 9      | 7.2    | 5                | 6            | F211JL224(1)063(2) | SMR5224(3)63J03(2)    |
| 63  | 40  | 0.27                   | JQ/J04                 | 5                        | 10     | 7.2    | 5                | 6            | F211JQ274(1)063(2) | SMR5274(3)63J04(2)    |
| 63  | 40  | 0.33                   | JQ/J04                 | 5                        | 10     | 7.2    | 5                | 6            | F211JQ334(1)063(2) | SMR5334(3)63J04(2)    |
| 63  | 40  | 0.39                   | JT/J05                 | 6                        | 11     | 7.2    | 5                | 6            | F211JT394(1)063(2) | SMR5394(3)63J05(2)    |
| 63  | 40  | 0.47                   | JT/J05                 | 6                        | 11     | 7.2    | 5                | 6            | F211JT474(1)063(2) | SMR5474(3)63J05(2)    |
| 63  | 40  | 0.56                   | JU/J06                 | 7.2                      | 13     | 7.2    | 5                | 6            | F211JU564(1)063(2) | SMR5564(3)63J06(2)    |
| 63  | 40  | 0.68                   | JU/J06                 | 7.2                      | 13     | 7.2    | 5                | 6            | F211JU684(1)063(2) | SMR5684(3)63J06(2)    |
| 63  | 40  | 0.001                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG102(1)063(2) | SMR7.5102(3)63K01(2)  |
| 63  | 40  | 0.0012                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG122(1)063(2) | SMR7.5122(3)63K01(2)  |
| 63  | 40  | 0.0015                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG152(1)063(2) | SMR7.5152(3)63K01(2)  |
| 63  | 40  | 0.0018                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG182(1)063(2) | SMR7.5182(3)63K01(2)  |
| 63  | 40  | 0.0022                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG222(1)063(2) | SMR7.5222(3)63K01(2)  |
| 63  | 40  | 0.0027                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG272(1)063(2) | SMR7.5272(3)63K01(2)  |
| 63  | 40  | 0.0033                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG332(1)063(2) | SMR7.5332(3)63K01(2)  |
| 63  | 40  | 0.0039                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG392(1)063(2) | SMR7.5392(3)63K01(2)  |
| 63  | 40  | 0.0047                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG472(1)063(2) | SMR7.5472(3)63K01(2)  |
| 63  | 40  | 0.0056                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG562(1)063(2) | SMR7.5562(3)63K01(2)  |
| 63  | 40  | 0.0068                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG682(1)063(2) | SMR7.5682(3)63K01(2)  |
| 63  | 40  | 0.0082                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG822(1)063(2) | SMR7.5822(3)63K01(2)  |
| VDC | VAC | Capacitance Value (µF) | Size Code (New/Legacy) | T (mm)                   | H (mm) | L (mm) | Lead Spacing (S) | dV/dt (V/µs) | KEMET Part Number  | Legacy Part Number    |

(1) R = ±2.5%, J = ±5%, K = ±10%, M = ±20%

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

(3) H = ±2.5%, J = ±5%, K = ±10%, M = ±20%

**Table 1 – Ratings & Part Number Reference cont.**

| VDC | VAC | Capacitance Value (µF) | Size Code (New/Legacy) | Maximum Dimensions in mm |        |        | Lead Spacing (S) | dV/dt (V/µs) | KEMET Part Number  | Legacy Part Number   |
|-----|-----|------------------------|------------------------|--------------------------|--------|--------|------------------|--------------|--------------------|----------------------|
|     |     |                        |                        | T                        | H      | L      |                  |              |                    |                      |
| 63  | 40  | 0.01                   | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG103(1)063(2) | SMR7.5103(3)63K01(2) |
| 63  | 40  | 0.012                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG123(1)063(2) | SMR7.5123(3)63K01(2) |
| 63  | 40  | 0.015                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG153(1)063(2) | SMR7.5153(3)63K01(2) |
| 63  | 40  | 0.018                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG183(1)063(2) | SMR7.5183(3)63K01(2) |
| 63  | 40  | 0.022                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG223(1)063(2) | SMR7.5223(3)63K01(2) |
| 63  | 40  | 0.027                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 20           | F211KG273(1)063(2) | SMR7.5273(3)63K01(2) |
| 63  | 40  | 0.033                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 20           | F211KG333(1)063(2) | SMR7.5333(3)63K01(2) |
| 63  | 40  | 0.039                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 20           | F211KG393(1)063(2) | SMR7.5393(3)63K01(2) |
| 63  | 40  | 0.047                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 20           | F211KG473(1)063(2) | SMR7.5473(3)63K01(2) |
| 63  | 40  | 0.056                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 15           | F211KG563(1)063(2) | SMR7.5563(3)63K01(2) |
| 63  | 40  | 0.068                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 15           | F211KG683(1)063(2) | SMR7.5683(3)63K01(2) |
| 63  | 40  | 0.082                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 15           | F211KG823(1)063(2) | SMR7.5823(3)63K01(2) |
| 63  | 40  | 0.1                    | KG/K01                 | 4                        | 8      | 10     | 7.5              | 15           | F211KG104(1)063(2) | SMR7.5104(3)63K01(2) |
| 63  | 40  | 0.12                   | KG/K01                 | 4                        | 8      | 10     | 7.5              | 15           | F211KG124(1)063(2) | SMR7.5124(3)63K01(2) |
| 63  | 40  | 0.15                   | KG/K01                 | 4                        | 8      | 10     | 7.5              | 10           | F211KG154(1)063(2) | SMR7.5154(3)63K01(2) |
| 63  | 40  | 0.18                   | KG/K01                 | 4                        | 8      | 10     | 7.5              | 10           | F211KG184(1)063(2) | SMR7.5184(3)63K01(2) |
| 63  | 40  | 0.22                   | KG/K01                 | 4                        | 8      | 10     | 7.5              | 10           | F211KG224(1)063(2) | SMR7.5224(3)63K01(2) |
| 63  | 40  | 0.27                   | KG/K01                 | 4                        | 8      | 10     | 7.5              | 10           | F211KG274(1)063(2) | SMR7.5274(3)63K01(2) |
| 63  | 40  | 0.33                   | KK/K03                 | 5                        | 11     | 10     | 7.5              | 10           | F211KK334(1)063(2) | SMR7.5334(3)63K03(2) |
| 63  | 40  | 0.39                   | KK/K03                 | 5                        | 11     | 10     | 7.5              | 10           | F211KK394(1)063(2) | SMR7.5394(3)63K03(2) |
| 63  | 40  | 0.47                   | KK/K03                 | 5                        | 11     | 10     | 7.5              | 10           | F211KK474(1)063(2) | SMR7.5474(3)63K03(2) |
| 63  | 40  | 0.56                   | KK/K03                 | 5                        | 11     | 10     | 7.5              | 10           | F211KK564(1)063(2) | SMR7.5564(3)63K03(2) |
| 63  | 40  | 0.68                   | KM/K04                 | 6                        | 12     | 10.5   | 7.5              | 10           | F211KM684(1)063(2) | SMR7.5684(3)63K04(2) |
| 63  | 40  | 0.82                   | KM/K04                 | 6                        | 12     | 10.5   | 7.5              | 10           | F211KM824(1)063(2) | SMR7.5824(3)63K04(2) |
| 63  | 40  | 0.0027                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG272(1)063(2) | SMR10272(3)63A01(2)  |
| 63  | 40  | 0.0033                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG332(1)063(2) | SMR10332(3)63A01(2)  |
| 63  | 40  | 0.0039                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG392(1)063(2) | SMR10392(3)63A01(2)  |
| 63  | 40  | 0.0047                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG472(1)063(2) | SMR10472(3)63A01(2)  |
| 63  | 40  | 0.0056                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG562(1)063(2) | SMR10562(3)63A01(2)  |
| 63  | 40  | 0.0068                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG682(1)063(2) | SMR10682(3)63A01(2)  |
| 63  | 40  | 0.0082                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG822(1)063(2) | SMR10822(3)63A01(2)  |
| 63  | 40  | 0.01                   | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG103(1)063(2) | SMR10103(3)63A01(2)  |
| 63  | 40  | 0.012                  | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG123(1)063(2) | SMR10123(3)63A01(2)  |
| 63  | 40  | 0.015                  | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG153(1)063(2) | SMR10153(3)63A01(2)  |
| 63  | 40  | 0.018                  | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG183(1)063(2) | SMR10183(3)63A01(2)  |
| 63  | 40  | 0.022                  | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG223(1)063(2) | SMR10223(3)63A01(2)  |
| 63  | 40  | 0.027                  | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG273(1)063(2) | SMR10273(3)63A01(2)  |
| 63  | 40  | 0.033                  | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG333(1)063(2) | SMR10333(3)63A01(2)  |
| 63  | 40  | 0.039                  | AG/A01                 | 4                        | 9      | 13     | 10               | 15           | F211AG393(1)063(2) | SMR10393(3)63A01(2)  |
| 63  | 40  | 0.047                  | AG/A01                 | 4                        | 9      | 13     | 10               | 15           | F211AG473(1)063(2) | SMR10473(3)63A01(2)  |
| 63  | 40  | 0.056                  | AG/A01                 | 4                        | 9      | 13     | 10               | 15           | F211AG563(1)063(2) | SMR10563(3)63A01(2)  |
| 63  | 40  | 0.068                  | AG/A01                 | 4                        | 9      | 13     | 10               | 15           | F211AG683(1)063(2) | SMR10683(3)63A01(2)  |
| 63  | 40  | 0.082                  | AG/A01                 | 4                        | 9      | 13     | 10               | 10           | F211AG823(1)063(2) | SMR10823(3)63A01(2)  |
| 63  | 40  | 0.1                    | AG/A01                 | 4                        | 9      | 13     | 10               | 10           | F211AG104(1)063(2) | SMR10104(3)63A01(2)  |
| 63  | 40  | 0.12                   | AG/A01                 | 4                        | 9      | 13     | 10               | 10           | F211AG124(1)063(2) | SMR10124(3)63A01(2)  |
| 63  | 40  | 0.15                   | AG/A01                 | 4                        | 9      | 13     | 10               | 10           | F211AG154(1)063(2) | SMR10154(3)63A01(2)  |
| 63  | 40  | 0.18                   | AG/A01                 | 4                        | 9      | 13     | 10               | 10           | F211AG184(1)063(2) | SMR10184(3)63A01(2)  |
| 63  | 40  | 0.22                   | AG/A01                 | 4                        | 9      | 13     | 10               | 10           | F211AG224(1)063(2) | SMR10224(3)63A01(2)  |
| 63  | 40  | 0.27                   | AG/A01                 | 4                        | 9      | 13     | 10               | 8            | F211AG274(1)063(2) | SMR10274(3)63A01(2)  |
| 63  | 40  | 0.33                   | AG/A01                 | 4                        | 9      | 13     | 10               | 8            | F211AG334(1)063(2) | SMR10334(3)63A01(2)  |
| 63  | 40  | 0.39                   | AG/A01                 | 4                        | 9      | 13     | 10               | 8            | F211AG394(1)063(2) | SMR10394(3)63A01(2)  |
| 63  | 40  | 0.47                   | AH/A02                 | 4.5                      | 10.5   | 13     | 10               | 8            | F211AH474(1)063(2) | SMR10474(3)63A02(2)  |
| 63  | 40  | 0.56                   | AH/A02                 | 4.5                      | 10.5   | 13     | 10               | 8            | F211AH564(1)063(2) | SMR10564(3)63A02(2)  |
| 63  | 40  | 0.68                   | AK/A03                 | 5                        | 11     | 13     | 10               | 8            | F211AK684(1)063(2) | SMR10684(3)63A03(2)  |
| 63  | 40  | 0.82                   | AP/A04                 | 6                        | 12     | 13     | 10               | 8            | F211AP824(1)063(2) | SMR10824(3)63A04(2)  |
| 63  | 40  | 1                      | AP/A04                 | 6                        | 12     | 13     | 10               | 8            | F211AP105(1)063(2) | SMR10105(3)63A04(2)  |
| VDC | VAC | Capacitance Value (µF) | Size Code (New/Legacy) | T (mm)                   | H (mm) | L (mm) | Lead Spacing (S) | dV/dt (V/µs) | KEMET Part Number  | Legacy Part Number   |

(1) R = ±2.5%, J = ±5%, K = ±10%, M = ±20%

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

(3) H = ±2.5%, J = ±5%, K = ±10%, M = ±20%

**Table 1 – Ratings & Part Number Reference cont.**

| VDC | VAC | Capacitance Value (µF) | Size Code (New/Legacy) | Maximum Dimensions in mm |        |        | Lead Spacing (S) | dV/dt (V/µs) | KEMET Part Number  | Legacy Part Number    |
|-----|-----|------------------------|------------------------|--------------------------|--------|--------|------------------|--------------|--------------------|-----------------------|
|     |     |                        |                        | T                        | H      | L      |                  |              |                    |                       |
| 63  | 40  | 0.68                   | BD/B04                 | 5.5                      | 10.5   | 18     | 15               | 8            | F211BD684(1)063(2) | SMR15684(3)63B04(2)   |
| 63  | 40  | 0.82                   | BD/B04                 | 5.5                      | 10.5   | 18     | 15               | 8            | F211BD824(1)063(2) | SMR15824(3)63B04(2)   |
| 63  | 40  | 1                      | BE/B05                 | 5.5                      | 12.5   | 18     | 15               | 8            | F211BE105(1)063(2) | SMR15105(3)63B05(2)   |
| 63  | 40  | 1.2                    | BJ/B10                 | 6.5                      | 12.5   | 18     | 15               | 6            | F211BJ125(1)063(2) | SMR15125(3)63B10(2)   |
| 63  | 40  | 1.5                    | BJ/B10                 | 6.5                      | 12.5   | 18     | 15               | 6            | F211BJ155(1)063(2) | SMR15155(3)63B10(2)   |
| 63  | 40  | 1.8                    | BL/B06                 | 7.5                      | 14.5   | 18     | 15               | 6            | F211BL185(1)063(2) | SMR15185(3)63B06(2)   |
| 63  | 40  | 2.2                    | BM/B12                 | 8                        | 15     | 18     | 15               | 6            | F211BM225(1)063(2) | SMR15225(3)63B12(2)   |
| 63  | 40  | 2.7                    | BQ/B11                 | 8.5                      | 16     | 18     | 15               | 6            | F211BQ275(1)063(2) | SMR15275(3)63B11(2)   |
| 63  | 40  | 3.3                    | BV/B14                 | 9.5                      | 17.5   | 18     | 15               | 6            | F211BV335(1)063(2) | SMR15335(3)63B14(2)   |
| 63  | 40  | 2.7                    | DD/D13                 | 6.5                      | 14.5   | 26     | 22.5             | 3            | F211DD275(1)063(2) | SMR22.5275(3)63D13(2) |
| 63  | 40  | 3.3                    | DF/D17                 | 7                        | 16.5   | 26     | 22.5             | 3            | F211DF335(1)063(2) | SMR22.5335(3)63D17(2) |
| 63  | 40  | 3.9                    | DH/D14                 | 8                        | 16     | 26     | 22.5             | 3            | F211DH395(1)063(2) | SMR22.5395(3)63D14(2) |
| 63  | 40  | 4.7                    | DM/D15                 | 9                        | 18.5   | 26     | 22.5             | 3            | F211DM475(1)063(2) | SMR22.5475(3)63D15(2) |
| 63  | 40  | 5.6                    | DM/D15                 | 9                        | 18.5   | 26     | 22.5             | 3            | F211DM565(1)063(2) | SMR22.5565(3)63D15(2) |
| 63  | 40  | 6.8                    | DR/D18                 | 10.5                     | 19     | 26     | 22.5             | 3            | F211DR685(1)063(2) | SMR22.5685(3)63D18(2) |
| 63  | 40  | 8.2                    | DT/D16                 | 11                       | 21.5   | 26     | 22.5             | 3            | F211DT825(1)063(2) | SMR22.5825(3)63D16(2) |
| 100 | 63  | 0.001                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF102(1)100(2) | SMR5102(3)100J01(2)   |
| 100 | 63  | 0.0012                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF122(1)100(2) | SMR5122(3)100J01(2)   |
| 100 | 63  | 0.0015                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF152(1)100(2) | SMR5152(3)100J01(2)   |
| 100 | 63  | 0.0018                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF182(1)100(2) | SMR5182(3)100J01(2)   |
| 100 | 63  | 0.0022                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF222(1)100(2) | SMR5222(3)100J01(2)   |
| 100 | 63  | 0.0027                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF272(1)100(2) | SMR5272(3)100J01(2)   |
| 100 | 63  | 0.0033                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF332(1)100(2) | SMR5332(3)100J01(2)   |
| 100 | 63  | 0.0039                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF392(1)100(2) | SMR5392(3)100J01(2)   |
| 100 | 63  | 0.0047                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 20           | F211JF472(1)100(2) | SMR5472(3)100J01(2)   |
| 100 | 63  | 0.0056                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 20           | F211JF562(1)100(2) | SMR5562(3)100J01(2)   |
| 100 | 63  | 0.0068                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 20           | F211JF682(1)100(2) | SMR5682(3)100J01(2)   |
| 100 | 63  | 0.0082                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 20           | F211JF822(1)100(2) | SMR5822(3)100J01(2)   |
| 100 | 63  | 0.01                   | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 20           | F211JF103(1)100(2) | SMR5103(3)100J01(2)   |
| 100 | 63  | 0.012                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 15           | F211JF123(1)100(2) | SMR5123(3)100J01(2)   |
| 100 | 63  | 0.015                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 15           | F211JF153(1)100(2) | SMR5153(3)100J01(2)   |
| 100 | 63  | 0.018                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 15           | F211JF183(1)100(2) | SMR5183(3)100J01(2)   |
| 100 | 63  | 0.022                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 15           | F211JF223(1)100(2) | SMR5223(3)100J01(2)   |
| 100 | 63  | 0.027                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 15           | F211JF273(1)100(2) | SMR5273(3)100J01(2)   |
| 100 | 63  | 0.033                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 15           | F211JF333(1)100(2) | SMR5333(3)100J01(2)   |
| 100 | 63  | 0.039                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 15           | F211JF393(1)100(2) | SMR5393(3)100J01(2)   |
| 100 | 63  | 0.047                  | JJ/J02                 | 3.5                      | 8      | 7.2    | 5                | 15           | F211JJ473(1)100(2) | SMR5473(3)100J02(2)   |
| 100 | 63  | 0.056                  | JL/J03                 | 4.5                      | 9      | 7.2    | 5                | 15           | F211JL563(1)100(2) | SMR5563(3)100J03(2)   |
| 100 | 63  | 0.068                  | JL/J03                 | 4.5                      | 9      | 7.2    | 5                | 15           | F211JL683(1)100(2) | SMR5683(3)100J03(2)   |
| 100 | 63  | 0.082                  | JL/J03                 | 4.5                      | 9      | 7.2    | 5                | 15           | F211JL823(1)100(2) | SMR5823(3)100J03(2)   |
| 100 | 63  | 0.1                    | JL/J03                 | 4.5                      | 9      | 7.2    | 5                | 15           | F211JL104(1)100(2) | SMR5104(3)100J03(2)   |
| 100 | 63  | 0.12                   | JQ/J04                 | 5                        | 10     | 7.2    | 5                | 15           | F211JQ124(1)100(2) | SMR5124(3)100J04(2)   |
| 100 | 63  | 0.15                   | JT/J05                 | 6                        | 11     | 7.2    | 5                | 15           | F211JT154(1)100(2) | SMR5154(3)100J05(2)   |
| 100 | 63  | 0.18                   | JT/J05                 | 6                        | 11     | 7.2    | 5                | 15           | F211JT184(1)100(2) | SMR5184(3)100J05(2)   |
| 100 | 63  | 0.22                   | JU/J06                 | 7.2                      | 13     | 7.2    | 5                | 15           | F211JU224(1)100(2) | SMR5224(3)100J06(2)   |
| 100 | 63  | 0.27                   | JU/J06                 | 7.2                      | 13     | 7.2    | 5                | 15           | F211JU274(1)100(2) | SMR5274(3)100J06(2)   |
| 100 | 63  | 0.33                   | JU/J06                 | 7.2                      | 13     | 7.2    | 5                | 15           | F211JU334(1)100(2) | SMR5334(3)100J06(2)   |
| 100 | 63  | 0.001                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG102(1)100(2) | SMR7.5102(3)100K01(2) |
| 100 | 63  | 0.0012                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG122(1)100(2) | SMR7.5122(3)100K01(2) |
| 100 | 63  | 0.0015                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG152(1)100(2) | SMR7.5152(3)100K01(2) |
| 100 | 63  | 0.0018                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG182(1)100(2) | SMR7.5182(3)100K01(2) |
| 100 | 63  | 0.0022                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG222(1)100(2) | SMR7.5222(3)100K01(2) |
| 100 | 63  | 0.0027                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG272(1)100(2) | SMR7.5272(3)100K01(2) |
| 100 | 63  | 0.0033                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG332(1)100(2) | SMR7.5332(3)100K01(2) |
| 100 | 63  | 0.0039                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG392(1)100(2) | SMR7.5392(3)100K01(2) |
| 100 | 63  | 0.0047                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG472(1)100(2) | SMR7.5472(3)100K01(2) |
| VDC | VAC | Capacitance Value (µF) | Size Code (New/Legacy) | T (mm)                   | H (mm) | L (mm) | Lead Spacing (S) | dV/dt (V/µs) | KEMET Part Number  | Legacy Part Number    |

(1) R = ±2.5%, J = ±5%, K = ±10%, M = ±20%

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

(3) H = ±2.5%, J = ±5%, K = ±10%, M = ±20%



**Table 1 – Ratings & Part Number Reference cont.**

| VDC | VAC | Capacitance Value (µF) | Size Code (New/Legacy) | Maximum Dimensions in mm |        |        | Lead Spacing (S) | dV/dt (V/µs) | KEMET Part Number  | Legacy Part Number    |
|-----|-----|------------------------|------------------------|--------------------------|--------|--------|------------------|--------------|--------------------|-----------------------|
|     |     |                        |                        | T                        | H      | L      |                  |              |                    |                       |
| 100 | 63  | 0.0056                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG562(1)100(2) | SMR7.5562(3)100K01(2) |
| 100 | 63  | 0.0068                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG682(1)100(2) | SMR7.5682(3)100K01(2) |
| 100 | 63  | 0.0082                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG822(1)100(2) | SMR7.5822(3)100K01(2) |
| 100 | 63  | 0.01                   | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG103(1)100(2) | SMR7.5103(3)100K01(2) |
| 100 | 63  | 0.012                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG123(1)100(2) | SMR7.5123(3)100K01(2) |
| 100 | 63  | 0.015                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG153(1)100(2) | SMR7.5153(3)100K01(2) |
| 100 | 63  | 0.018                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG183(1)100(2) | SMR7.5183(3)100K01(2) |
| 100 | 63  | 0.022                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG223(1)100(2) | SMR7.5223(3)100K01(2) |
| 100 | 63  | 0.027                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 20           | F211KG273(1)100(2) | SMR7.5273(3)100K01(2) |
| 100 | 63  | 0.033                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 20           | F211KG333(1)100(2) | SMR7.5333(3)100K01(2) |
| 100 | 63  | 0.039                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 20           | F211KG393(1)100(2) | SMR7.5393(3)100K01(2) |
| 100 | 63  | 0.047                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 20           | F211KG473(1)100(2) | SMR7.5473(3)100K01(2) |
| 100 | 63  | 0.056                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 15           | F211KG563(1)100(2) | SMR7.5563(3)100K01(2) |
| 100 | 63  | 0.068                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 15           | F211KG683(1)100(2) | SMR7.5683(3)100K01(2) |
| 100 | 63  | 0.082                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 15           | F211KG823(1)100(2) | SMR7.5823(3)100K01(2) |
| 100 | 63  | 0.1                    | KG/K01                 | 4                        | 8      | 10     | 7.5              | 15           | F211KG104(1)100(2) | SMR7.5104(3)100K01(2) |
| 100 | 63  | 0.12                   | KG/K01                 | 4                        | 8      | 10     | 7.5              | 15           | F211KG124(1)100(2) | SMR7.5124(3)100K01(2) |
| 100 | 63  | 0.15                   | KK/K03                 | 5                        | 11     | 10     | 7.5              | 15           | F211KK154(1)100(2) | SMR7.5154(3)100K03(2) |
| 100 | 63  | 0.18                   | KK/K03                 | 5                        | 11     | 10     | 7.5              | 15           | F211KK184(1)100(2) | SMR7.5184(3)100K03(2) |
| 100 | 63  | 0.22                   | KK/K03                 | 5                        | 11     | 10     | 7.5              | 15           | F211KK224(1)100(2) | SMR7.5224(3)100K03(2) |
| 100 | 63  | 0.27                   | KK/K03                 | 5                        | 11     | 10     | 7.5              | 15           | F211KK274(1)100(2) | SMR7.5274(3)100K03(2) |
| 100 | 63  | 0.33                   | KM/K04                 | 6                        | 12     | 10.5   | 7.5              | 15           | F211KM334(1)100(2) | SMR7.5334(3)100K04(2) |
| 100 | 63  | 0.39                   | KM/K04                 | 6                        | 12     | 10.5   | 7.5              | 15           | F211KM394(1)100(2) | SMR7.5394(3)100K04(2) |
| 100 | 63  | 0.47                   | KM/K04                 | 6                        | 12     | 10.5   | 7.5              | 15           | F211KM474(1)100(2) | SMR7.5474(3)100K04(2) |
| 100 | 63  | 0.0027                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG272(1)100(2) | SMR10272(3)100A01(2)  |
| 100 | 63  | 0.0033                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG332(1)100(2) | SMR10332(3)100A01(2)  |
| 100 | 63  | 0.0039                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG392(1)100(2) | SMR10392(3)100A01(2)  |
| 100 | 63  | 0.0047                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG472(1)100(2) | SMR10472(3)100A01(2)  |
| 100 | 63  | 0.0056                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG562(1)100(2) | SMR10562(3)100A01(2)  |
| 100 | 63  | 0.0068                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG682(1)100(2) | SMR10682(3)100A01(2)  |
| 100 | 63  | 0.0082                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG822(1)100(2) | SMR10822(3)100A01(2)  |
| 100 | 63  | 0.01                   | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG103(1)100(2) | SMR10103(3)100A01(2)  |
| 100 | 63  | 0.012                  | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG123(1)100(2) | SMR10123(3)100A01(2)  |
| 100 | 63  | 0.015                  | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG153(1)100(2) | SMR10153(3)100A01(2)  |
| 100 | 63  | 0.018                  | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG183(1)100(2) | SMR10183(3)100A01(2)  |
| 100 | 63  | 0.022                  | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG223(1)100(2) | SMR10223(3)100A01(2)  |
| 100 | 63  | 0.027                  | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG273(1)100(2) | SMR10273(3)100A01(2)  |
| 100 | 63  | 0.033                  | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG333(1)100(2) | SMR10333(3)100A01(2)  |
| 100 | 63  | 0.039                  | AG/A01                 | 4                        | 9      | 13     | 10               | 15           | F211AG393(1)100(2) | SMR10393(3)100A01(2)  |
| 100 | 63  | 0.047                  | AG/A01                 | 4                        | 9      | 13     | 10               | 15           | F211AG473(1)100(2) | SMR10473(3)100A01(2)  |
| 100 | 63  | 0.056                  | AG/A01                 | 4                        | 9      | 13     | 10               | 15           | F211AG563(1)100(2) | SMR10563(3)100A01(2)  |
| 100 | 63  | 0.068                  | AG/A01                 | 4                        | 9      | 13     | 10               | 15           | F211AG683(1)100(2) | SMR10683(3)100A01(2)  |
| 100 | 63  | 0.082                  | AG/A01                 | 4                        | 9      | 13     | 10               | 10           | F211AG823(1)100(2) | SMR10823(3)100A01(2)  |
| 100 | 63  | 0.1                    | AG/A01                 | 4                        | 9      | 13     | 10               | 10           | F211AG104(1)100(2) | SMR10104(3)100A01(2)  |
| 100 | 63  | 0.12                   | AG/A01                 | 4                        | 9      | 13     | 10               | 10           | F211AG124(1)100(2) | SMR10124(3)100A01(2)  |
| 100 | 63  | 0.15                   | AG/A01                 | 4                        | 9      | 13     | 10               | 10           | F211AG154(1)100(2) | SMR10154(3)100A01(2)  |
| 100 | 63  | 0.18                   | AG/A01                 | 4                        | 9      | 13     | 10               | 10           | F211AG184(1)100(2) | SMR10184(3)100A01(2)  |
| 100 | 63  | 0.22                   | AG/A01                 | 4                        | 9      | 13     | 10               | 10           | F211AG224(1)100(2) | SMR10224(3)100A01(2)  |
| 100 | 63  | 0.27                   | AH/A02                 | 4.5                      | 10.5   | 13     | 10               | 10           | F211AH274(1)100(2) | SMR10274(3)100A02(2)  |
| 100 | 63  | 0.33                   | AK/A03                 | 5                        | 11     | 13     | 10               | 10           | F211AK334(1)100(2) | SMR10334(3)100A03(2)  |
| 100 | 63  | 0.39                   | AK/A03                 | 5                        | 11     | 13     | 10               | 10           | F211AK394(1)100(2) | SMR10394(3)100A03(2)  |
| 100 | 63  | 0.47                   | AP/A04                 | 6                        | 12     | 13     | 10               | 10           | F211AP474(1)100(2) | SMR10474(3)100A04(2)  |
| 100 | 63  | 0.56                   | AP/A04                 | 6                        | 12     | 13     | 10               | 10           | F211AP564(1)100(2) | SMR10564(3)100A04(2)  |
| 100 | 63  | 0.27                   | BD/B04                 | 5.5                      | 10.5   | 18     | 15               | 8            | F211BD274(1)100(2) | SMR15274(3)100B04(2)  |
| 100 | 63  | 0.33                   | BD/B04                 | 5.5                      | 10.5   | 18     | 15               | 8            | F211BD334(1)100(2) | SMR15334(3)100B04(2)  |
| 100 | 63  | 0.39                   | BD/B04                 | 5.5                      | 10.5   | 18     | 15               | 8            | F211BD394(1)100(2) | SMR15394(3)100B04(2)  |
| VDC | VAC | Capacitance Value (µF) | Size Code (New/Legacy) | T (mm)                   | H (mm) | L (mm) | Lead Spacing (S) | dV/dt (V/µs) | KEMET Part Number  | Legacy Part Number    |

(1) R = ±2.5%, J = ±5%, K = ±10%, M = ±20%

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

(3) H = ±2.5%, J = ±5%, K = ±10%, M = ±20%

**Table 1 – Ratings & Part Number Reference cont.**

| VDC | VAC | Capacitance Value (µF) | Size Code (New/Legacy) | Maximum Dimensions in mm |        |        | Lead Spacing (S) | dV/dt (V/µs) | KEMET Part Number  | Legacy Part Number     |
|-----|-----|------------------------|------------------------|--------------------------|--------|--------|------------------|--------------|--------------------|------------------------|
|     |     |                        |                        | T                        | H      | L      |                  |              |                    |                        |
| 100 | 63  | 0.47                   | BD/B04                 | 5.5                      | 10.5   | 18     | 15               | 8            | F211BD474(1)100(2) | SMR15474(3)100B04(2)   |
| 100 | 63  | 0.56                   | BE/B05                 | 5.5                      | 12.5   | 18     | 15               | 8            | F211BE564(1)100(2) | SMR15564(3)100B05(2)   |
| 100 | 63  | 0.68                   | BJ/B10                 | 6.5                      | 12.5   | 18     | 15               | 8            | F211BJ684(1)100(2) | SMR15684(3)100B10(2)   |
| 100 | 63  | 0.82                   | BL/B06                 | 7.5                      | 14.5   | 18     | 15               | 8            | F211BL824(1)100(2) | SMR15824(3)100B06(2)   |
| 100 | 63  | 1                      | BL/B06                 | 7.5                      | 14.5   | 18     | 15               | 8            | F211BL105(1)100(2) | SMR15105(3)100B06(2)   |
| 100 | 63  | 1.2                    | BM/B12                 | 8                        | 15     | 18     | 15               | 8            | F211BM125(1)100(2) | SMR15125(3)100B12(2)   |
| 100 | 63  | 1.5                    | BQ/B11                 | 8.5                      | 16     | 18     | 15               | 8            | F211BQ155(1)100(2) | SMR15155(3)100B11(2)   |
| 100 | 63  | 1.8                    | BV/B14                 | 9.5                      | 17.5   | 18     | 15               | 8            | F211BV185(1)100(2) | SMR15185(3)100B14(2)   |
| 100 | 63  | 1.5                    | DD/D13                 | 6.5                      | 14.5   | 26     | 22.5             | 4            | F211DD155(1)100(2) | SMR22.5155(3)100D13(2) |
| 100 | 63  | 1.8                    | DF/D17                 | 7                        | 16.5   | 26     | 22.5             | 4            | F211DF185(1)100(2) | SMR22.5185(3)100D17(2) |
| 100 | 63  | 2.2                    | DH/D14                 | 8                        | 16     | 26     | 22.5             | 4            | F211DH225(1)100(2) | SMR22.5225(3)100D14(2) |
| 100 | 63  | 2.7                    | DM/D15                 | 9                        | 18.5   | 26     | 22.5             | 4            | F211DM275(1)100(2) | SMR22.5275(3)100D15(2) |
| 100 | 63  | 3.3                    | DR/D18                 | 10.5                     | 19     | 26     | 22.5             | 4            | F211DR335(1)100(2) | SMR22.5335(3)100D18(2) |
| 100 | 63  | 3.9                    | DR/D18                 | 10.5                     | 19     | 26     | 22.5             | 4            | F211DR395(1)100(2) | SMR22.5395(3)100D18(2) |
| 100 | 63  | 4.7                    | DT/D16                 | 11                       | 21.5   | 26     | 22.5             | 4            | F211DT475(1)100(2) | SMR22.5475(3)100D16(2) |
| 250 | 160 | 0.001                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF102(1)250(2) | SMR5102(3)250J01(2)    |
| 250 | 160 | 0.0012                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF122(1)250(2) | SMR5122(3)250J01(2)    |
| 250 | 160 | 0.0015                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF152(1)250(2) | SMR5152(3)250J01(2)    |
| 250 | 160 | 0.0018                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF182(1)250(2) | SMR5182(3)250J01(2)    |
| 250 | 160 | 0.0022                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF222(1)250(2) | SMR5222(3)250J01(2)    |
| 250 | 160 | 0.0027                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF272(1)250(2) | SMR5272(3)250J01(2)    |
| 250 | 160 | 0.0033                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF332(1)250(2) | SMR5332(3)250J01(2)    |
| 250 | 160 | 0.0039                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF392(1)250(2) | SMR5392(3)250J01(2)    |
| 250 | 160 | 0.0047                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 20           | F211JF472(1)250(2) | SMR5472(3)250J01(2)    |
| 250 | 160 | 0.0056                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 20           | F211JF562(1)250(2) | SMR5562(3)250J01(2)    |
| 250 | 160 | 0.0068                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 20           | F211JF682(1)250(2) | SMR5682(3)250J01(2)    |
| 250 | 160 | 0.0082                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 20           | F211JF822(1)250(2) | SMR5822(3)250J01(2)    |
| 250 | 160 | 0.01                   | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 20           | F211JF103(1)250(2) | SMR5103(3)250J01(2)    |
| 250 | 160 | 0.012                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 20           | F211JF123(1)250(2) | SMR5123(3)250J01(2)    |
| 250 | 160 | 0.015                  | JJ/J02                 | 3.5                      | 8      | 7.2    | 5                | 20           | F211JJ153(1)250(2) | SMR5153(3)250J02(2)    |
| 250 | 160 | 0.018                  | JJ/J02                 | 3.5                      | 8      | 7.2    | 5                | 20           | F211JJ183(1)250(2) | SMR5183(3)250J02(2)    |
| 250 | 160 | 0.022                  | JJ/J02                 | 3.5                      | 8      | 7.2    | 5                | 20           | F211JJ223(1)250(2) | SMR5223(3)250J02(2)    |
| 250 | 160 | 0.027                  | JJ/J02                 | 3.5                      | 8      | 7.2    | 5                | 20           | F211JJ273(1)250(2) | SMR5273(3)250J02(2)    |
| 250 | 160 | 0.033                  | JL/J03                 | 4.5                      | 9      | 7.2    | 5                | 20           | F211JL333(1)250(2) | SMR5333(3)250J03(2)    |
| 250 | 160 | 0.039                  | JL/J03                 | 4.5                      | 9      | 7.2    | 5                | 20           | F211JL393(1)250(2) | SMR5393(3)250J03(2)    |
| 250 | 160 | 0.047                  | JL/J03                 | 4.5                      | 9      | 7.2    | 5                | 20           | F211JL473(1)250(2) | SMR5473(3)250J03(2)    |
| 250 | 160 | 0.056                  | JQ/J04                 | 5                        | 10     | 7.2    | 5                | 20           | F211JQ563(1)250(2) | SMR5563(3)250J04(2)    |
| 250 | 160 | 0.068                  | JT/J05                 | 6                        | 11     | 7.2    | 5                | 20           | F211JT683(1)250(2) | SMR5683(3)250J05(2)    |
| 250 | 160 | 0.082                  | JT/J05                 | 6                        | 11     | 7.2    | 5                | 20           | F211JT823(1)250(2) | SMR5823(3)250J05(2)    |
| 250 | 160 | 0.1                    | JU/J06                 | 7.2                      | 13     | 7.2    | 5                | 20           | F211JU104(1)250(2) | SMR5104(3)250J06(2)    |
| 250 | 160 | 0.12                   | JU/J06                 | 7.2                      | 13     | 7.2    | 5                | 20           | F211JU124(1)250(2) | SMR5124(3)250J06(2)    |
| 250 | 160 | 0.001                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG102(1)250(2) | SMR7.5102(3)250K01(2)  |
| 250 | 160 | 0.0012                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG122(1)250(2) | SMR7.5122(3)250K01(2)  |
| 250 | 160 | 0.0015                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG152(1)250(2) | SMR7.5152(3)250K01(2)  |
| 250 | 160 | 0.0018                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG182(1)250(2) | SMR7.5182(3)250K01(2)  |
| 250 | 160 | 0.0022                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG222(1)250(2) | SMR7.5222(3)250K01(2)  |
| 250 | 160 | 0.0027                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG272(1)250(2) | SMR7.5272(3)250K01(2)  |
| 250 | 160 | 0.0033                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG332(1)250(2) | SMR7.5332(3)250K01(2)  |
| 250 | 160 | 0.0039                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG392(1)250(2) | SMR7.5392(3)250K01(2)  |
| 250 | 160 | 0.0047                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG472(1)250(2) | SMR7.5472(3)250K01(2)  |
| 250 | 160 | 0.0056                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG562(1)250(2) | SMR7.5562(3)250K01(2)  |
| 250 | 160 | 0.0068                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG682(1)250(2) | SMR7.5682(3)250K01(2)  |
| 250 | 160 | 0.0082                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG822(1)250(2) | SMR7.5822(3)250K01(2)  |
| 250 | 160 | 0.01                   | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG103(1)250(2) | SMR7.5103(3)250K01(2)  |
| 250 | 160 | 0.012                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG123(1)250(2) | SMR7.5123(3)250K01(2)  |
| 250 | 160 | 0.015                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG153(1)250(2) | SMR7.5153(3)250K01(2)  |
| VDC | VAC | Capacitance Value (µF) | Size Code (New/Legacy) | T (mm)                   | H (mm) | L (mm) | Lead Spacing (S) | dV/dt (V/µs) | KEMET Part Number  | Legacy Part Number     |

(1) R = ±2.5%, J = ±5%, K = ±10%, M = ±20%

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

(3) H = ±2.5%, J = ±5%, K = ±10%, M = ±20%

**Table 1 – Ratings & Part Number Reference cont.**

| VDC | VAC | Capacitance Value (µF) | Size Code (New/Legacy) | Maximum Dimensions in mm |        |        | Lead Spacing (S) | dV/dt (V/µs) | KEMET Part Number  | Legacy Part Number     |
|-----|-----|------------------------|------------------------|--------------------------|--------|--------|------------------|--------------|--------------------|------------------------|
|     |     |                        |                        | T                        | H      | L      |                  |              |                    |                        |
| 250 | 160 | 0.018                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG183(1)250(2) | SMR7.5183(3)250K01(2)  |
| 250 | 160 | 0.022                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG223(1)250(2) | SMR7.5223(3)250K01(2)  |
| 250 | 160 | 0.027                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 20           | F211KG273(1)250(2) | SMR7.5273(3)250K01(2)  |
| 250 | 160 | 0.033                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 20           | F211KG333(1)250(2) | SMR7.5333(3)250K01(2)  |
| 250 | 160 | 0.039                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 20           | F211KG393(1)250(2) | SMR7.5393(3)250K01(2)  |
| 250 | 160 | 0.047                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 20           | F211KG473(1)250(2) | SMR7.5473(3)250K01(2)  |
| 250 | 160 | 0.056                  | KK/K03                 | 5                        | 11     | 10     | 7.5              | 20           | F211KK563(1)250(2) | SMR7.5563(3)250K03(2)  |
| 250 | 160 | 0.068                  | KK/K03                 | 5                        | 11     | 10     | 7.5              | 20           | F211KK683(1)250(2) | SMR7.5683(3)250K03(2)  |
| 250 | 160 | 0.082                  | KK/K03                 | 5                        | 11     | 10     | 7.5              | 20           | F211KK823(1)250(2) | SMR7.5823(3)250K03(2)  |
| 250 | 160 | 0.1                    | KK/K03                 | 5                        | 11     | 10     | 7.5              | 20           | F211KK104(1)250(2) | SMR7.5104(3)250K03(2)  |
| 250 | 160 | 0.12                   | KM/K04                 | 6                        | 12     | 10.5   | 7.5              | 20           | F211KM124(1)250(2) | SMR7.5124(3)250K04(2)  |
| 250 | 160 | 0.15                   | KM/K04                 | 6                        | 12     | 10.5   | 7.5              | 20           | F211KM154(1)250(2) | SMR7.5154(3)250K04(2)  |
| 250 | 160 | 0.0027                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG272(1)250(2) | SMR10272(3)250A01(2)   |
| 250 | 160 | 0.0033                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG332(1)250(2) | SMR10332(3)250A01(2)   |
| 250 | 160 | 0.0039                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG392(1)250(2) | SMR10392(3)250A01(2)   |
| 250 | 160 | 0.0047                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG472(1)250(2) | SMR10472(3)250A01(2)   |
| 250 | 160 | 0.0056                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG562(1)250(2) | SMR10562(3)250A01(2)   |
| 250 | 160 | 0.0068                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG682(1)250(2) | SMR10682(3)250A01(2)   |
| 250 | 160 | 0.0082                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG822(1)250(2) | SMR10822(3)250A01(2)   |
| 250 | 160 | 0.01                   | AG/A01                 | 4                        | 9      | 13     | 10               | 15           | F211AG103(1)250(2) | SMR10103(3)250A01(2)   |
| 250 | 160 | 0.012                  | AG/A01                 | 4                        | 9      | 13     | 10               | 15           | F211AG123(1)250(2) | SMR10123(3)250A01(2)   |
| 250 | 160 | 0.015                  | AG/A01                 | 4                        | 9      | 13     | 10               | 15           | F211AG153(1)250(2) | SMR10153(3)250A01(2)   |
| 250 | 160 | 0.018                  | AG/A01                 | 4                        | 9      | 13     | 10               | 15           | F211AG183(1)250(2) | SMR10183(3)250A01(2)   |
| 250 | 160 | 0.022                  | AG/A01                 | 4                        | 9      | 13     | 10               | 15           | F211AG223(1)250(2) | SMR10223(3)250A01(2)   |
| 250 | 160 | 0.027                  | AG/A01                 | 4                        | 9      | 13     | 10               | 15           | F211AG273(1)250(2) | SMR10273(3)250A01(2)   |
| 250 | 160 | 0.033                  | AG/A01                 | 4                        | 9      | 13     | 10               | 15           | F211AG333(1)250(2) | SMR10333(3)250A01(2)   |
| 250 | 160 | 0.039                  | AG/A01                 | 4                        | 9      | 13     | 10               | 15           | F211AG393(1)250(2) | SMR10393(3)250A01(2)   |
| 250 | 160 | 0.047                  | AG/A01                 | 4                        | 9      | 13     | 10               | 15           | F211AG473(1)250(2) | SMR10473(3)250A01(2)   |
| 250 | 160 | 0.056                  | AG/A01                 | 4                        | 9      | 13     | 10               | 15           | F211AG563(1)250(2) | SMR10563(3)250A01(2)   |
| 250 | 160 | 0.068                  | AG/A01                 | 4                        | 9      | 13     | 10               | 15           | F211AG683(1)250(2) | SMR10683(3)250A01(2)   |
| 250 | 160 | 0.082                  | AH/A02                 | 4.5                      | 10.5   | 13     | 10               | 15           | F211AH823(1)250(2) | SMR10823(3)250A02(2)   |
| 250 | 160 | 0.1                    | AH/A02                 | 4.5                      | 10.5   | 13     | 10               | 15           | F211AH104(1)250(2) | SMR10104(3)250A02(2)   |
| 250 | 160 | 0.12                   | AK/A03                 | 5                        | 11     | 13     | 10               | 15           | F211AK124(1)250(2) | SMR10124(3)250A03(2)   |
| 250 | 160 | 0.15                   | AP/A04                 | 6                        | 12     | 13     | 10               | 15           | F211AP154(1)250(2) | SMR10154(3)250A04(2)   |
| 250 | 160 | 0.18                   | AP/A04                 | 6                        | 12     | 13     | 10               | 15           | F211AP184(1)250(2) | SMR10184(3)250A04(2)   |
| 250 | 160 | 0.1                    | BD/B04                 | 5.5                      | 10.5   | 18     | 15               | 10           | F211BD104(1)250(2) | SMR15104(3)250B04(2)   |
| 250 | 160 | 0.12                   | BD/B04                 | 5.5                      | 10.5   | 18     | 15               | 10           | F211BD124(1)250(2) | SMR15124(3)250B04(2)   |
| 250 | 160 | 0.15                   | BD/B04                 | 5.5                      | 10.5   | 18     | 15               | 10           | F211BD154(1)250(2) | SMR15154(3)250B04(2)   |
| 250 | 160 | 0.18                   | BE/B05                 | 5.5                      | 12.5   | 18     | 15               | 10           | F211BE184(1)250(2) | SMR15184(3)250B05(2)   |
| 250 | 160 | 0.22                   | BJ/B10                 | 6.5                      | 12.5   | 18     | 15               | 10           | F211BJ224(1)250(2) | SMR15224(3)250B10(2)   |
| 250 | 160 | 0.27                   | BL/B06                 | 7.5                      | 14.5   | 18     | 15               | 10           | F211BL274(1)250(2) | SMR15274(3)250B06(2)   |
| 250 | 160 | 0.33                   | BL/B06                 | 7.5                      | 14.5   | 18     | 15               | 10           | F211BL334(1)250(2) | SMR15334(3)250B06(2)   |
| 250 | 160 | 0.39                   | BM/B12                 | 8                        | 15     | 18     | 15               | 10           | F211BM394(1)250(2) | SMR15394(3)250B12(2)   |
| 250 | 160 | 0.47                   | BQ/B11                 | 8.5                      | 16     | 18     | 15               | 10           | F211BQ474(1)250(2) | SMR15474(3)250B11(2)   |
| 250 | 160 | 0.56                   | BV/B14                 | 9.5                      | 17.5   | 18     | 15               | 10           | F211BV564(1)250(2) | SMR15564(3)250B14(2)   |
| 250 | 160 | 0.47                   | DD/D13                 | 6.5                      | 14.5   | 26     | 22.5             | 8            | F211DD474(1)250(2) | SMR22.5474(3)250D13(2) |
| 250 | 160 | 0.56                   | DF/D17                 | 7                        | 16.5   | 26     | 22.5             | 8            | F211DF564(1)250(2) | SMR22.5564(3)250D17(2) |
| 250 | 160 | 0.68                   | DF/D17                 | 7                        | 16.5   | 26     | 22.5             | 8            | F211DF684(1)250(2) | SMR22.5684(3)250D17(2) |
| 250 | 160 | 0.82                   | DM/D15                 | 9                        | 18.5   | 26     | 22.5             | 8            | F211DM824(1)250(2) | SMR22.5824(3)250D15(2) |
| 250 | 160 | 1                      | DM/D15                 | 9                        | 18.5   | 26     | 22.5             | 8            | F211DM105(1)250(2) | SMR22.5105(3)250D15(2) |
| 250 | 160 | 1.2                    | DR/D18                 | 10.5                     | 19     | 26     | 22.5             | 8            | F211DR125(1)250(2) | SMR22.5125(3)250D18(2) |
| 250 | 160 | 1.5                    | DT/D16                 | 11                       | 21.5   | 26     | 22.5             | 8            | F211DT155(1)250(2) | SMR22.5155(3)250D16(2) |
| 400 | 200 | 0.001                  | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF102(1)400(2) | SMR5102(3)400J01(2)    |
| 400 | 200 | 0.0012                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF122(1)400(2) | SMR5122(3)400J01(2)    |
| 400 | 200 | 0.0015                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF152(1)400(2) | SMR5152(3)400J01(2)    |
| 400 | 200 | 0.0018                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF182(1)400(2) | SMR5182(3)400J01(2)    |
| VDC | VAC | Capacitance Value (µF) | Size Code (New/Legacy) | T (mm)                   | H (mm) | L (mm) | Lead Spacing (S) | dV/dt (V/µs) | KEMET Part Number  | Legacy Part Number     |

(1) R = ±2.5%, J = ±5%, K = ±10%, M = ±20%

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

(3) H = ±2.5%, J = ±5%, K = ±10%, M = ±20%



**Table 1 – Ratings & Part Number Reference cont.**

| VDC | VAC | Capacitance Value (µF) | Size Code (New/Legacy) | Maximum Dimensions in mm |        |        | Lead Spacing (S) | dV/dt (V/µs) | KEMET Part Number  | Legacy Part Number    |
|-----|-----|------------------------|------------------------|--------------------------|--------|--------|------------------|--------------|--------------------|-----------------------|
|     |     |                        |                        | T                        | H      | L      |                  |              |                    |                       |
| 400 | 200 | 0.0022                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF222(1)400(2) | SMR5222(3)400J01(2)   |
| 400 | 200 | 0.0027                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF272(1)400(2) | SMR5272(3)400J01(2)   |
| 400 | 200 | 0.0033                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF332(1)400(2) | SMR5332(3)400J01(2)   |
| 400 | 200 | 0.0039                 | JF/J01                 | 2.5                      | 6.5    | 7.2    | 5                | 40           | F211JF392(1)400(2) | SMR5392(3)400J01(2)   |
| 400 | 200 | 0.0047                 | JJ/J02                 | 3.5                      | 8      | 7.2    | 5                | 40           | F211JJ472(1)400(2) | SMR5472(3)400J02(2)   |
| 400 | 200 | 0.0056                 | JJ/J02                 | 3.5                      | 8      | 7.2    | 5                | 40           | F211JJ562(1)400(2) | SMR5562(3)400J02(2)   |
| 400 | 200 | 0.0068                 | JJ/J02                 | 3.5                      | 8      | 7.2    | 5                | 40           | F211JJ682(1)400(2) | SMR5682(3)400J02(2)   |
| 400 | 200 | 0.0082                 | JJ/J02                 | 3.5                      | 8      | 7.2    | 5                | 40           | F211JJ822(1)400(2) | SMR5822(3)400J02(2)   |
| 400 | 200 | 0.01                   | JJ/J02                 | 3.5                      | 8      | 7.2    | 5                | 40           | F211JJ103(1)400(2) | SMR5103(3)400J02(2)   |
| 400 | 200 | 0.012                  | JJ/J02                 | 3.5                      | 8      | 7.2    | 5                | 40           | F211JJ123(1)400(2) | SMR5123(3)400J02(2)   |
| 400 | 200 | 0.015                  | JL/J03                 | 4.5                      | 9      | 7.2    | 5                | 40           | F211JL153(1)400(2) | SMR5153(3)400J03(2)   |
| 400 | 200 | 0.018                  | JL/J03                 | 4.5                      | 9      | 7.2    | 5                | 40           | F211JL183(1)400(2) | SMR5183(3)400J03(2)   |
| 400 | 200 | 0.022                  | JQ/J04                 | 5                        | 10     | 7.2    | 5                | 40           | F211JQ223(1)400(2) | SMR5223(3)400J04(2)   |
| 400 | 200 | 0.027                  | JQ/J04                 | 5                        | 10     | 7.2    | 5                | 40           | F211JQ273(1)400(2) | SMR5273(3)400J04(2)   |
| 400 | 200 | 0.033                  | JT/J05                 | 6                        | 11     | 7.2    | 5                | 40           | F211JT333(1)400(2) | SMR5333(3)400J05(2)   |
| 400 | 200 | 0.039                  | JT/J05                 | 6                        | 11     | 7.2    | 5                | 40           | F211JT393(1)400(2) | SMR5393(3)400J05(2)   |
| 400 | 200 | 0.047                  | JU/J06                 | 7.2                      | 13     | 7.2    | 5                | 40           | F211JU473(1)400(2) | SMR5473(3)400J06(2)   |
| 400 | 200 | 0.056                  | JU/J06                 | 7.2                      | 13     | 7.2    | 5                | 40           | F211JU563(1)400(2) | SMR5563(3)400J06(2)   |
| 400 | 200 | 0.001                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG102(1)400(2) | SMR7.5102(3)400K01(2) |
| 400 | 200 | 0.0012                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG122(1)400(2) | SMR7.5122(3)400K01(2) |
| 400 | 200 | 0.0015                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG152(1)400(2) | SMR7.5152(3)400K01(2) |
| 400 | 200 | 0.0018                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG182(1)400(2) | SMR7.5182(3)400K01(2) |
| 400 | 200 | 0.0022                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG222(1)400(2) | SMR7.5222(3)400K01(2) |
| 400 | 200 | 0.0027                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG272(1)400(2) | SMR7.5272(3)400K01(2) |
| 400 | 200 | 0.0033                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG332(1)400(2) | SMR7.5332(3)400K01(2) |
| 400 | 200 | 0.0039                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG392(1)400(2) | SMR7.5392(3)400K01(2) |
| 400 | 200 | 0.0047                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG472(1)400(2) | SMR7.5472(3)400K01(2) |
| 400 | 200 | 0.0056                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG562(1)400(2) | SMR7.5562(3)400K01(2) |
| 400 | 200 | 0.0068                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG682(1)400(2) | SMR7.5682(3)400K01(2) |
| 400 | 200 | 0.0082                 | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG822(1)400(2) | SMR7.5822(3)400K01(2) |
| 400 | 200 | 0.01                   | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG103(1)400(2) | SMR7.5103(3)400K01(2) |
| 400 | 200 | 0.012                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG123(1)400(2) | SMR7.5123(3)400K01(2) |
| 400 | 200 | 0.015                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG153(1)400(2) | SMR7.5153(3)400K01(2) |
| 400 | 200 | 0.018                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG183(1)400(2) | SMR7.5183(3)400K01(2) |
| 400 | 200 | 0.022                  | KG/K01                 | 4                        | 8      | 10     | 7.5              | 30           | F211KG223(1)400(2) | SMR7.5223(3)400K01(2) |
| 400 | 200 | 0.027                  | KK/K03                 | 5                        | 11     | 10     | 7.5              | 30           | F211KK273(1)400(2) | SMR7.5273(3)400K03(2) |
| 400 | 200 | 0.033                  | KK/K03                 | 5                        | 11     | 10     | 7.5              | 30           | F211KK333(1)400(2) | SMR7.5333(3)400K03(2) |
| 400 | 200 | 0.039                  | KK/K03                 | 5                        | 11     | 10     | 7.5              | 30           | F211KK393(1)400(2) | SMR7.5393(3)400K03(2) |
| 400 | 200 | 0.047                  | KK/K03                 | 5                        | 11     | 10     | 7.5              | 30           | F211KK473(1)400(2) | SMR7.5473(3)400K03(2) |
| 400 | 200 | 0.056                  | KM/K04                 | 6                        | 12     | 10.5   | 7.5              | 30           | F211KM563(1)400(2) | SMR7.5563(3)400K04(2) |
| 400 | 200 | 0.068                  | KM/K04                 | 6                        | 12     | 10.5   | 7.5              | 30           | F211KM683(1)400(2) | SMR7.5683(3)400K04(2) |
| 400 | 200 | 0.0027                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG272(1)400(2) | SMR10272(3)400A01(2)  |
| 400 | 200 | 0.0033                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG332(1)400(2) | SMR10332(3)400A01(2)  |
| 400 | 200 | 0.0039                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG392(1)400(2) | SMR10392(3)400A01(2)  |
| 400 | 200 | 0.0047                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG472(1)400(2) | SMR10472(3)400A01(2)  |
| 400 | 200 | 0.0068                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG682(1)400(2) | SMR10682(3)400A01(2)  |
| 400 | 200 | 0.0082                 | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG822(1)400(2) | SMR10822(3)400A01(2)  |
| 400 | 200 | 0.01                   | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG103(1)400(2) | SMR10103(3)400A01(2)  |
| 400 | 200 | 0.012                  | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG123(1)400(2) | SMR10123(3)400A01(2)  |
| 400 | 200 | 0.015                  | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG153(1)400(2) | SMR10153(3)400A01(2)  |
| 400 | 200 | 0.018                  | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG183(1)400(2) | SMR10183(3)400A01(2)  |
| 400 | 200 | 0.022                  | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG223(1)400(2) | SMR10223(3)400A01(2)  |
| 400 | 200 | 0.027                  | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG273(1)400(2) | SMR10273(3)400A01(2)  |
| 400 | 200 | 0.033                  | AG/A01                 | 4                        | 9      | 13     | 10               | 25           | F211AG333(1)400(2) | SMR10333(3)400A01(2)  |
| 400 | 200 | 0.039                  | AH/A02                 | 4.5                      | 10.5   | 13     | 10               | 25           | F211AH393(1)400(2) | SMR10393(3)400A02(2)  |
| 400 | 200 | 0.047                  | AK/A03                 | 5                        | 11     | 13     | 10               | 25           | F211AK473(1)400(2) | SMR10473(3)400A03(2)  |
| VDC | VAC | Capacitance Value (µF) | Size Code (New/Legacy) | T (mm)                   | H (mm) | L (mm) | Lead Spacing (S) | dV/dt (V/µs) | KEMET Part Number  | Legacy Part Number    |

(1) R = ±2.5%, J = ±5%, K = ±10%, M = ±20%

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

(3) H = ±2.5%, J = ±5%, K = ±10%, M = ±20%

**Table 1 – Ratings & Part Number Reference cont.**

| VDC | VAC | Capacitance Value (µF) | Size Code (New/Legacy) | Maximum Dimensions in mm |        |        | Lead Spacing (S) | dV/dt (V/µs) | KEMET Part Number  | Legacy Part Number     |
|-----|-----|------------------------|------------------------|--------------------------|--------|--------|------------------|--------------|--------------------|------------------------|
|     |     |                        |                        | T                        | H      | L      |                  |              |                    |                        |
| 400 | 200 | 0.056                  | AK/A03                 | 5                        | 11     | 13     | 10               | 25           | F211AK563(1)400(2) | SMR10563(3)400A03(2)   |
| 400 | 200 | 0.068                  | AP/A04                 | 6                        | 12     | 13     | 10               | 25           | F211AP683(1)400(2) | SMR10683(3)400A04(2)   |
| 400 | 200 | 0.082                  | AP/A04                 | 6                        | 12     | 13     | 10               | 25           | F211AP823(1)400(2) | SMR10823(3)400A04(2)   |
| 400 | 200 | 0.047                  | BD/B04                 | 5.5                      | 10.5   | 18     | 15               | 15           | F211BD473(1)400(2) | SMR15473(3)400B04(2)   |
| 400 | 200 | 0.056                  | BD/B04                 | 5.5                      | 10.5   | 18     | 15               | 15           | F211BD563(1)400(2) | SMR15563(3)400B04(2)   |
| 400 | 200 | 0.068                  | BD/B04                 | 5.5                      | 10.5   | 18     | 15               | 15           | F211BD683(1)400(2) | SMR15683(3)400B04(2)   |
| 400 | 200 | 0.082                  | BE/B05                 | 5.5                      | 12.5   | 18     | 15               | 15           | F211BE823(1)400(2) | SMR15823(3)400B05(2)   |
| 400 | 200 | 0.1                    | BJ/B10                 | 6.5                      | 12.5   | 18     | 15               | 15           | F211BJ104(1)400(2) | SMR15104(3)400B10(2)   |
| 400 | 200 | 0.12                   | BL/B06                 | 7.5                      | 14.5   | 18     | 15               | 15           | F211BL124(1)400(2) | SMR15124(3)400B06(2)   |
| 400 | 200 | 0.15                   | BL/B06                 | 7.5                      | 14.5   | 18     | 15               | 15           | F211BL154(1)400(2) | SMR15154(3)400B06(2)   |
| 400 | 200 | 0.18                   | BM/B12                 | 8                        | 15     | 18     | 15               | 15           | F211BM184(1)400(2) | SMR15184(3)400B12(2)   |
| 400 | 200 | 0.22                   | BQ/B11                 | 8.5                      | 16     | 18     | 15               | 15           | F211BQ224(1)400(2) | SMR15224(3)400B11(2)   |
| 400 | 200 | 0.27                   | BV/B14                 | 9.5                      | 17.5   | 18     | 15               | 15           | F211BV274(1)400(2) | SMR15274(3)400B14(2)   |
| 400 | 200 | 0.15                   | DD/D13                 | 6.5                      | 14.5   | 26     | 22.5             | 10           | F211DD154(1)400(2) | SMR22.5154(3)400D13(2) |
| 400 | 200 | 0.18                   | DD/D13                 | 6.5                      | 14.5   | 26     | 22.5             | 10           | F211DD184(1)400(2) | SMR22.5184(3)400D13(2) |
| 400 | 200 | 0.22                   | DD/D13                 | 6.5                      | 14.5   | 26     | 22.5             | 10           | F211DD224(1)400(2) | SMR22.5224(3)400D13(2) |
| 400 | 200 | 0.27                   | DF/D17                 | 7                        | 16.5   | 26     | 22.5             | 10           | F211DF274(1)400(2) | SMR22.5274(3)400D17(2) |
| 400 | 200 | 0.33                   | DH/D14                 | 8                        | 16     | 26     | 22.5             | 10           | F211DH334(1)400(2) | SMR22.5334(3)400D14(2) |
| 400 | 200 | 0.39                   | DM/D15                 | 9                        | 18.5   | 26     | 22.5             | 10           | F211DM394(1)400(2) | SMR22.5394(3)400D15(2) |
| 400 | 200 | 0.47                   | DM/D15                 | 9                        | 18.5   | 26     | 22.5             | 10           | F211DM474(1)400(2) | SMR22.5474(3)400D15(2) |
| 400 | 200 | 0.56                   | DR/D18                 | 10.5                     | 19     | 26     | 22.5             | 10           | F211DR564(1)400(2) | SMR22.5564(3)400D18(2) |
| 400 | 200 | 0.68                   | DT/D16                 | 11                       | 21.5   | 26     | 22.5             | 10           | F211DT684(1)400(2) | SMR22.5684(3)400D16(2) |
| VDC | VAC | Capacitance Value (µF) | Size Code (New/Legacy) | T (mm)                   | H (mm) | L (mm) | Lead Spacing (S) | dV/dt (V/µs) | KEMET Part Number  | Legacy Part Number     |

(1) R = ±2.5%, J = ±5%, K = ±10%, M = ±20%

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

(3) H = ±2.5%, J = ±5%, K = ±10%, M = ±20%

## Soldering Process

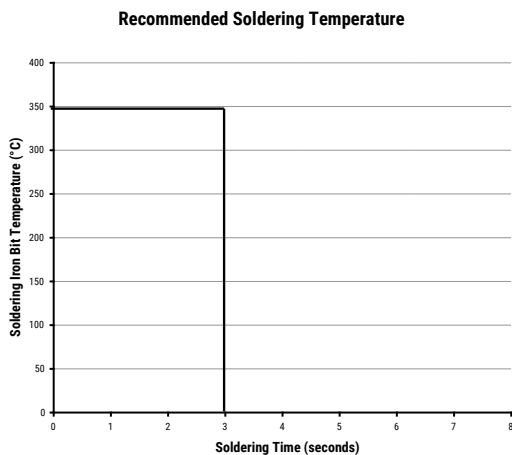
The implementation of the RoHS directive has resulted in the selection of SnAuCu (SAC) alloys or SnCu alloys as primary solder. This has increased the liquidus temperature from that of 183°C for SnPb eutectic alloy to 217 – 221°C for the new alloys. As a result, the heat stress to the components, even in wave soldering, has increased considerably due to higher pre-heat and wave temperatures. Polypropylene capacitors are especially sensitive to heat (the melting point of polypropylene is 160 – 170°C). Wave soldering can be destructive, especially for mechanically small polypropylene capacitors (with lead spacing of 5 – 15 mm), and great care has to be taken during soldering. In general, the wave soldering curve from IEC Publication 61760-1 Edition 2 serves as a solid guideline for successful soldering. Please see Figure 1. The recommended solder profiles from KEMET should be used. Please consult KEMET with any questions.

Reflow soldering is not recommended for through-hole film capacitors. Exposing capacitors to a soldering profile in excess of the above the recommended limits may result to degradation or permanent damage to the capacitors.

Do not place the polypropylene capacitor through an adhesive curing oven to cure resin for surface mount components. Insert through-hole parts after the curing of surface mount parts. Consult KEMET to discuss the actual temperature profile in the oven, if through-hole components must pass through the adhesive curing process. A maximum two soldering cycles is recommended. Please allow time for the capacitor surface temperature to return to a normal temperature before the second soldering cycle.

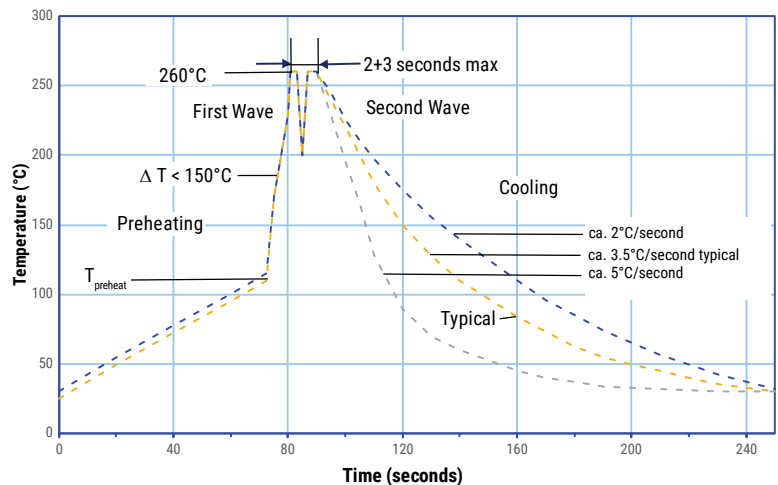
### Manual Soldering Recommendations

Following is the recommendation for manual soldering with a soldering iron.



Soldering iron tip temperature should be set at 350°C (+10°C maximum) with the soldering duration not to exceed more than three seconds.

### Wave Soldering Recommendations



## Soldering Process cont.

### Wave Soldering Recommendations cont.

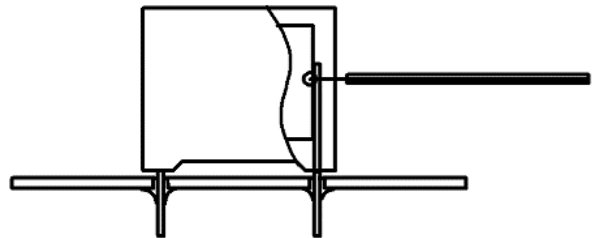
1. The table indicates the maximum set-up temperature of the soldering process  
Figure 1

| Dielectric Film Material | Maximum Preheat Temperature |                         |                         | Maximum Peak Soldering Temperature |                         |
|--------------------------|-----------------------------|-------------------------|-------------------------|------------------------------------|-------------------------|
|                          | Capacitor pitch ≤ 10 mm     | Capacitor pitch = 15 mm | Capacitor pitch > 15 mm | Capacitor pitch ≤ 15 mm            | Capacitor pitch > 15 mm |
| Polyester                | 130°C                       | 130°C                   | 130°C                   | 270°C                              | 270°C                   |
| Polypropylene            | 110°C                       | 110°C                   | 130°C                   | 260°C                              | 270°C                   |
| Paper                    | 130°C                       | 130°C                   | 140°C                   | 270°C                              | 270°C                   |
| Polyphenylene Sulphide   | 150°C                       | 150°C                   | 160°C                   | 270°C                              | 270°C                   |

2. The maximum temperature measured inside the capacitor:  
Set the temperature so that inside the element the maximum temperature is below the limit:

| Dielectric Film Material | Maximum temperature measured inside the element |
|--------------------------|-------------------------------------------------|
| Polyester                | 160°C                                           |
| Polypropylene            | 110°C                                           |
| Paper                    | 160°C                                           |
| Polyphenylene Sulphide   | 160°C                                           |

*Temperature monitored inside the capacitor.*

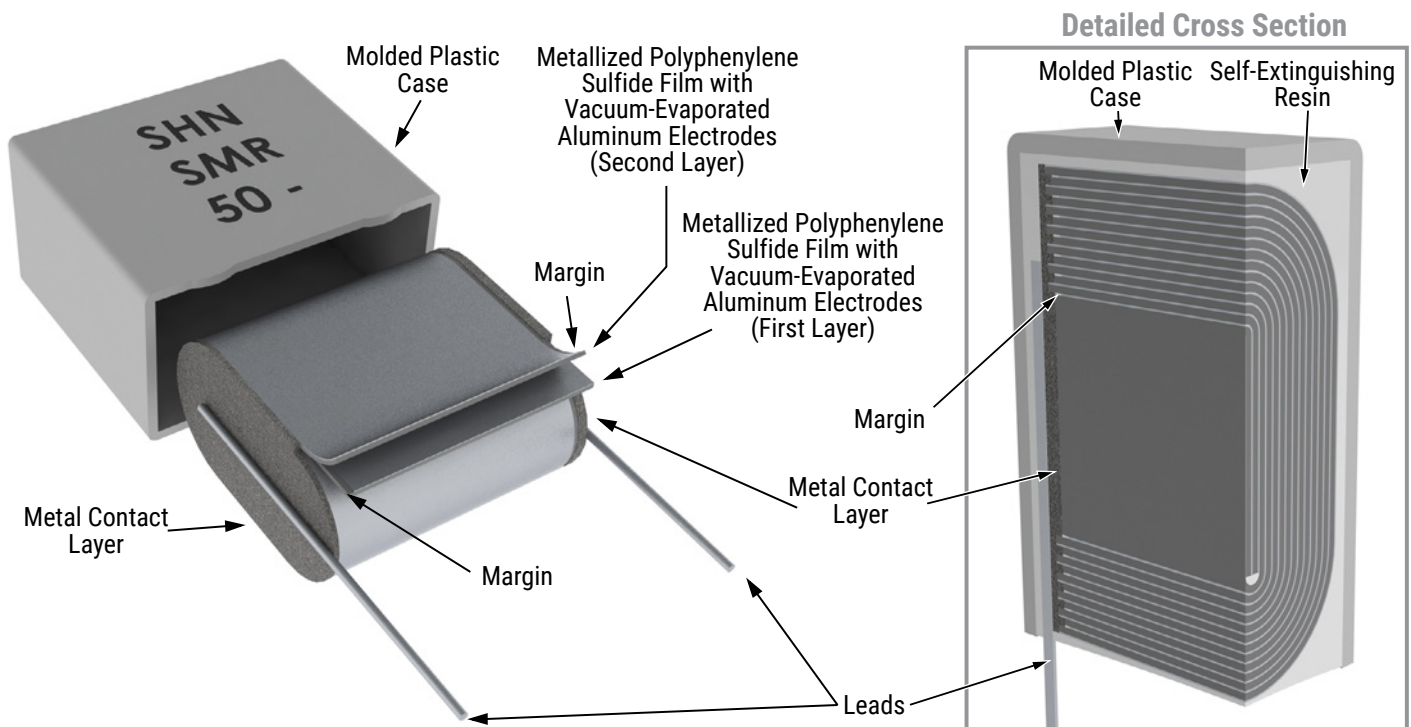


### Selective Soldering Recommendations

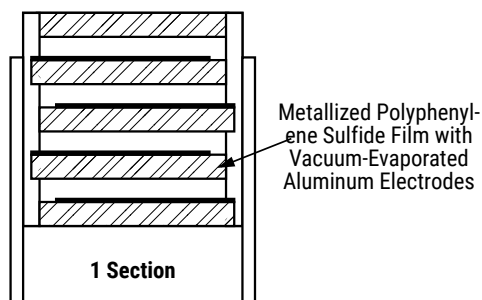
Selective dip soldering is a variation of reflow soldering. In this method, the printed circuit board with through-hole components to be soldered is preheated and transported over the solder bath as in normal flow soldering without touching the solder. When the board is over the bath, it is stopped, and pre-designed solder pots are lifted from the bath with molten solder only at the places of the selected components and pressed against the lower surface of the board to solder the components.

The temperature profile for selective soldering is similar to the double wave flow soldering outlined in this document; **however, instead of two baths, there is only one bath with a time of 3 to 10 seconds.** In selective soldering, the risk of overheating is greater than in double wave flow soldering, and great care must be taken so that the parts are not overheated.

## Construction

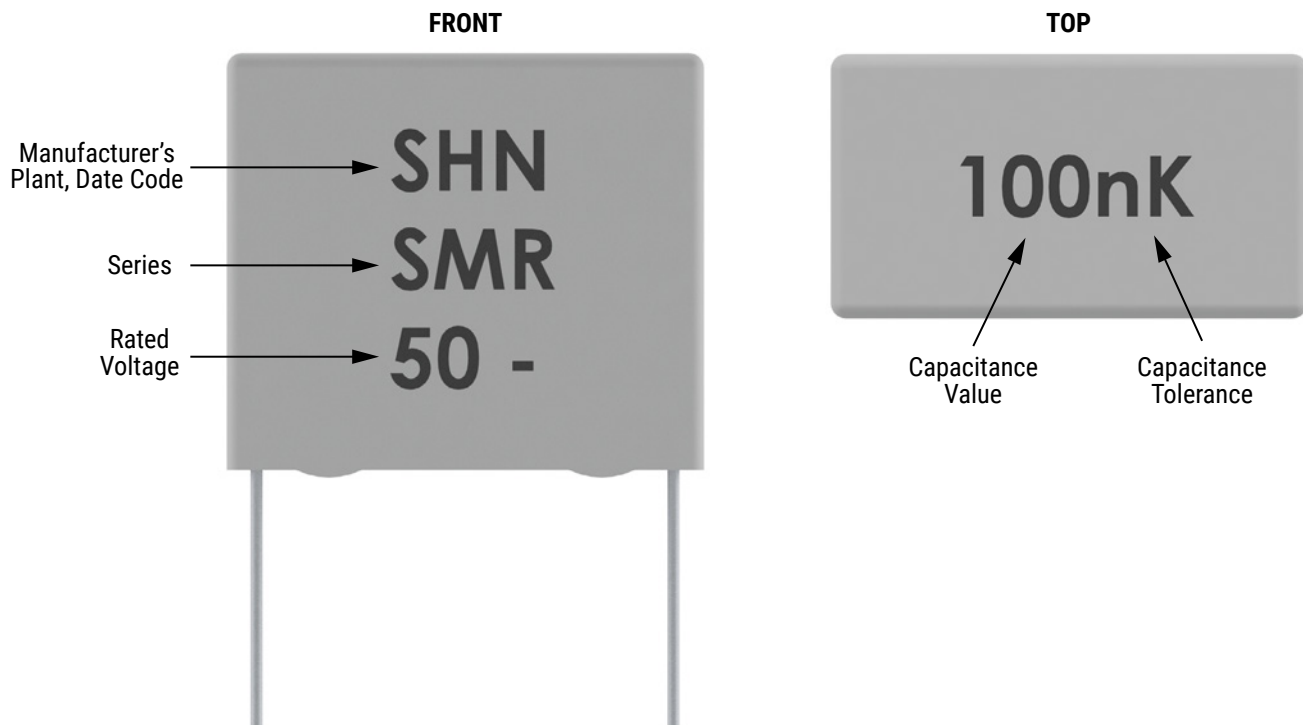


## Winding Scheme

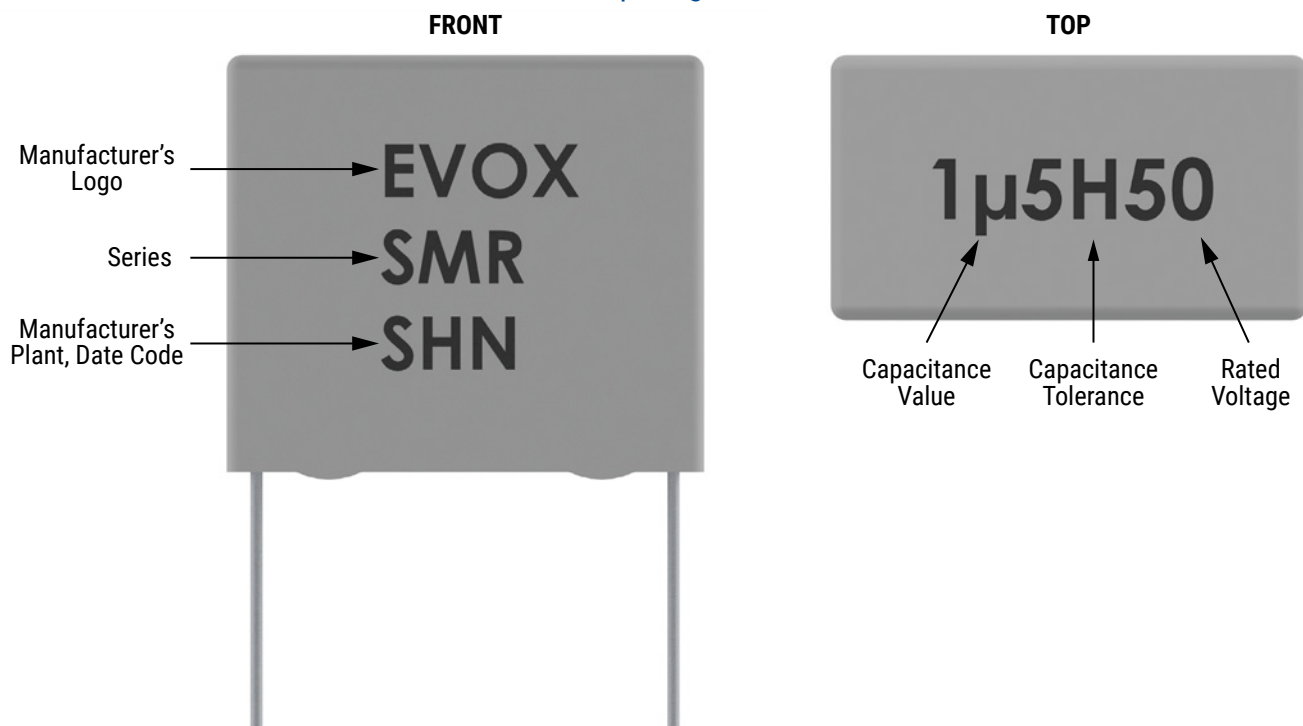


## Marking

Lead Spacing 5 mm



Lead Spacing 7.5 – 22.5 mm

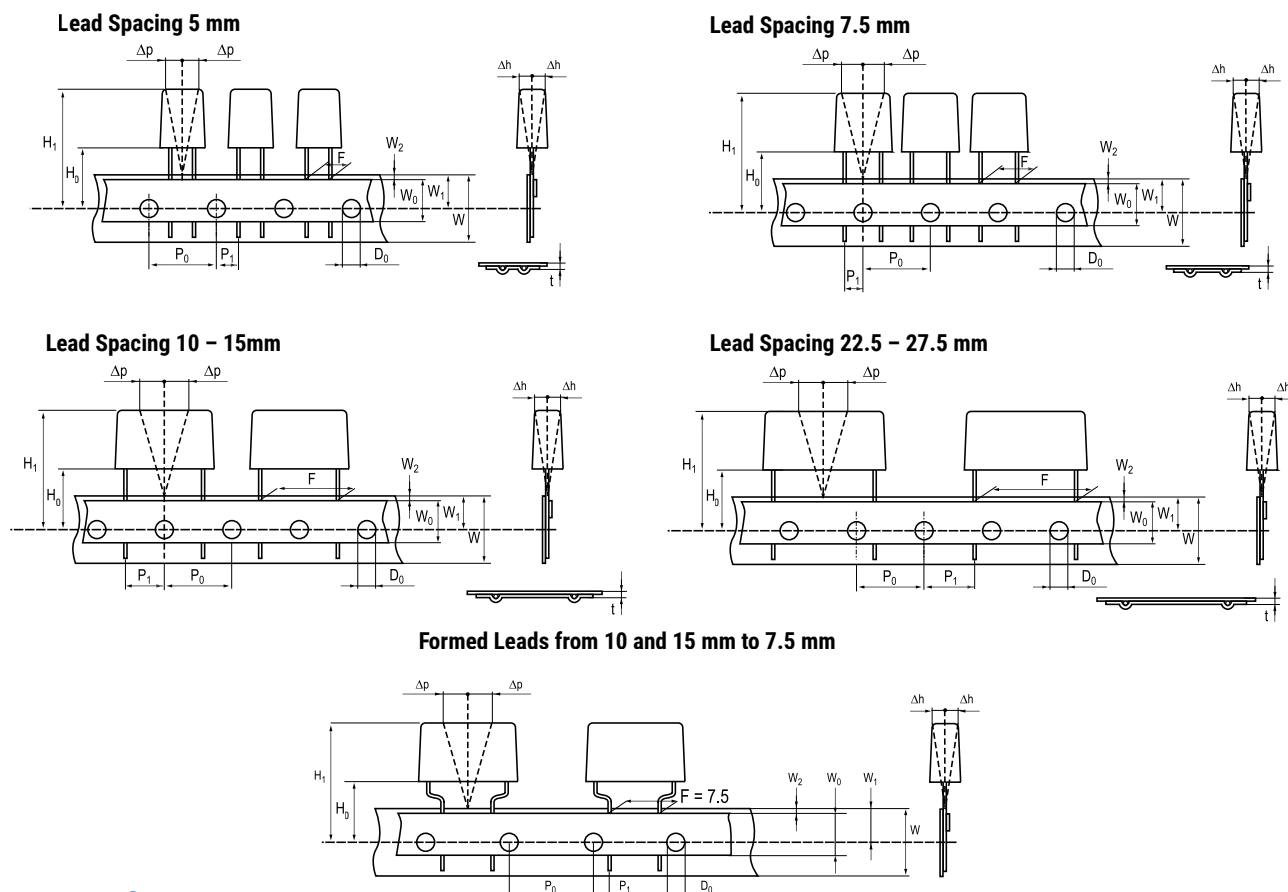




## Packaging Quantities

| KEMET<br>Size<br>Code | Legacy<br>Size<br>Code | Lead<br>Spacing | Thickness<br>(mm) | Height<br>(mm) | Length<br>(mm) | Bulk<br>Short<br>Leads | Bulk<br>Long<br>Leads | Standard<br>Reel<br>360 mm | Large<br>Reel<br>500 mm | Ammo  | Standard<br>Reel<br>Formed | Ammo<br>Formed |
|-----------------------|------------------------|-----------------|-------------------|----------------|----------------|------------------------|-----------------------|----------------------------|-------------------------|-------|----------------------------|----------------|
| JF                    | J01                    | 5.0             | 2.5               | 6.5            | 7.2            | 2,000                  | 2,000                 | 2,500                      | 5,000                   | 3,000 |                            |                |
| JJ                    | J02                    |                 | 3.5               | 8.0            | 7.2            | 2,000                  | 2,000                 | 2,000                      | 4,000                   | 2,000 |                            |                |
| JL                    | J03                    |                 | 4.5               | 9.0            | 7.2            | 1,000                  | 1,000                 | 1,500                      | 3,000                   | 1,700 |                            |                |
| JQ                    | J04                    |                 | 5.0               | 10.0           | 7.2            | 1,000                  | 1,000                 | 1,300                      | 2,600                   | 1,500 |                            |                |
| JT                    | J05                    |                 | 6.0               | 11.0           | 7.2            | 1,000                  | 1,000                 | 1,000                      | 2,000                   | 1,200 |                            |                |
| JU                    | J06                    |                 | 7.2               | 13.0           | 7.2            | 1,000                  | 1,000                 | 800                        | 1,600                   |       |                            |                |
| KE                    | K00                    | 7.5             | 2.5               | 6.0            | 10.0           | 2,000                  | 2,000                 | 2,500                      | 5,000                   | 3,000 |                            |                |
| KG                    | K01                    |                 | 4.0               | 8.0            | 10.0           | 1,000                  | 1,000                 | 1,700                      | 3,400                   | 1,900 |                            |                |
| KK                    | K03                    |                 | 5.0               | 11.0           | 10.0           | 1,000                  | 1,000                 | 1,300                      | 2,600                   | 1,500 |                            | 1,200          |
| KM                    | K04                    |                 | 6.0               | 12.0           | 10.5           | 1,000                  | 1,000                 | 1,000                      | 2,000                   | 1,200 |                            |                |
| AG                    | A01                    | 10              | 4.0               | 9.0            | 13.0           | 1,000                  | 1,000                 | 900                        | 1,800                   |       |                            | 630            |
| AH                    | A02                    |                 | 4.5               | 10.5           | 13.0           | 1,000                  | 1,000                 | 800                        | 1,600                   |       |                            | 630            |
| AK                    | A03                    |                 | 5.0               | 11.0           | 13.0           | 800                    | 800                   | 700                        | 1,400                   |       |                            |                |
| AP                    | A04                    |                 | 6.0               | 12.0           | 13.0           | 600                    | 600                   | 500                        | 1,000                   |       |                            | 520            |
| AL                    | A05                    |                 | 9.5               | 7.5            | 13.0           | 600                    | 600                   | 350                        | 700                     |       |                            |                |
| AE                    | A06                    |                 | 4.0               | 8.0            | 13.0           | 1,000                  | 1,000                 | 900                        | 1,800                   |       |                            |                |
| BD                    | B04                    | 15              | 5.5               | 10.5           | 18.0           | 1,000                  | 800                   | 600                        | 1,200                   |       | 550                        | 570            |
| BE                    | B05                    |                 | 5.5               | 12.5           | 18.0           | 1,000                  | 800                   | 600                        | 1,200                   |       | 550                        | 570            |
| BL                    | B06                    |                 | 7.5               | 14.5           | 18.0           | 800                    | 400                   | 400                        | 800                     |       | 400                        | 378            |
| BJ                    | B10                    |                 | 6.5               | 12.5           | 18.0           | 1,000                  | 600                   | 500                        | 1,000                   |       | 450                        | 480            |
| BQ                    | B11                    |                 | 8.5               | 16.0           | 18.0           | 600                    | 400                   | 400                        | 800                     |       | 400                        | 324            |
| BM                    | B12                    |                 | 8.0               | 15.0           | 18.0           | 600                    | 400                   | 400                        | 800                     |       | 350                        | 351            |
| BV                    | B14                    |                 | 9.5               | 17.5           | 18.0           | 500                    | 300                   | 350                        | 700                     |       | 250                        | 297            |
| BG                    | B15                    |                 | 6.0               | 12.0           | 18.0           | 1,000                  | 800                   | 500                        | 1,000                   |       | 450                        | 520            |
| BY                    | B16                    |                 | 11.0              | 19.0           | 18.0           | 350                    | 250                   | 250                        | 500                     |       | 250                        | 252            |
| BU                    | B17                    |                 | 13.0              | 12.5           | 18.0           | 400                    | 300                   | 250                        | 500                     |       | 200                        | 216            |
| DD                    | D13                    | 22.5            | 6.5               | 14.5           | 26.5           | 234                    |                       | 300                        | 600                     |       |                            |                |
| DH                    | D14                    |                 | 8.0               | 16.0           | 26.5           | 186                    |                       | 250                        | 500                     |       |                            |                |
| DM                    | D15                    |                 | 9.0               | 18.5           | 26.5           | 308                    |                       | 250                        | 500                     |       |                            |                |
| DT                    | D16                    |                 | 11.0              | 21.5           | 26.5           | 253                    |                       | 200                        | 400                     |       |                            |                |
| DF                    | D17                    |                 | 7.0               | 16.5           | 26.5           | 216                    |                       | 300                        | 600                     |       |                            |                |
| DR                    | D18                    |                 | 10.5              | 19.0           | 26.5           | 264                    |                       | 200                        | 400                     |       |                            |                |
| DY                    | D19                    |                 | 15.5              | 24.5           | 26.5           | 176                    |                       | 110                        | 250                     |       |                            |                |
| DW                    | D20                    |                 | 13.5              | 23.0           | 26.5           | 209                    |                       | 160                        | 300                     |       |                            |                |

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



## Taping Specification

| Dimensions in mm              |           |                    |          |          |            |          |          |             |             | Standard IEC 60286-2 |
|-------------------------------|-----------|--------------------|----------|----------|------------|----------|----------|-------------|-------------|----------------------|
| Lead Spacing                  | +0.6/-0.1 | F                  | 5        | 7.5      | Formed 7.5 | 10       | 15       | 22.5        | 27.5        | F                    |
| Carrier Tape Width            | ±0.5      | W                  | 18       | 18       | 18         | 18       | 18       | 18          | 18          | 18+1/-0.5            |
| Hold-down Tape Width          | Minimum   | W <sub>0</sub>     | 5        | 5        | 5          | 5        | 5        | 5           | 5           |                      |
| Position of Sprocket Hole     | ±0.5      | W <sub>1</sub>     | 9        | 9        | 9          | 9        | 9        | 9           | 9           | 9+0.75/-0.5          |
| Distance Between Tapes        | Maximum   | W <sub>2</sub>     | 3        | 3        | 3          | 3        | 3        | 3           | 3           | 3                    |
| Sprocket Hole Diameter        | ±0.2      | D <sub>0</sub>     | 4        | 4        | 4          | 4        | 4        | 4           | 4           | 4                    |
| Feed Hole Lead Spacing        | ±0.3      | P <sub>0</sub> (1) | 12.7     | 12.7     | 12.7 (4)   | 12.7     | 12.7     | 12.7        | 12.7        | 12.7                 |
| Distance Lead – Feed Hole     | ±0.7      | P <sub>1</sub>     | 3.85     | 3.75     | 3.75       | 7.7      | 5.2      | 5.3         | 5.3         | P1                   |
| Deviation Tape – Plane        | Maximum   | Δ p                | 1.3      | 1.3      | 1.3        | 1.3      | 1.3      | 1.3         | 1.3         | 1.3                  |
| Lateral Deviation             | Maximum   | Δ h                | 2        | 2        | 2          | 2        | 2        | 2           | 2           | 2                    |
| Total Thickness               | ±0.2      | t                  | 0.7      | 0.7      | 0.7        | 0.7      | 0.7      | 0.9 Maximum | 0.9 Maximum | 0.9 Maximum          |
| Sprocket Hole/Cap Body        | Nominal   | H <sub>0</sub> (2) | 18.5±0.5 | 18.5±0.5 | 18.5±0.5   | 18.5±0.5 | 18.5±0.5 | 18.5±0.5    | 18.5±0.5    | 18.0+2/-0            |
| Sprocket Hole/Top of Cap Body | Maximum   | H <sub>1</sub> (3) | 32       | 31       | 43         | 43       | 43       | 58          | 58          | 58 Maximum           |

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

(2) 16.5 mm available on request

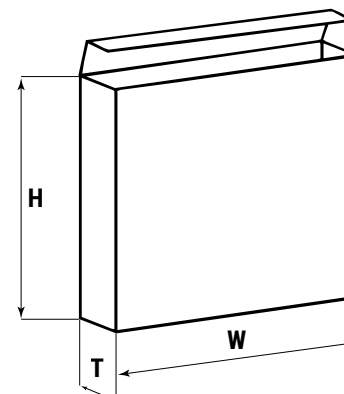
(3) Depending on case size

(4) 15 mm available on request

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

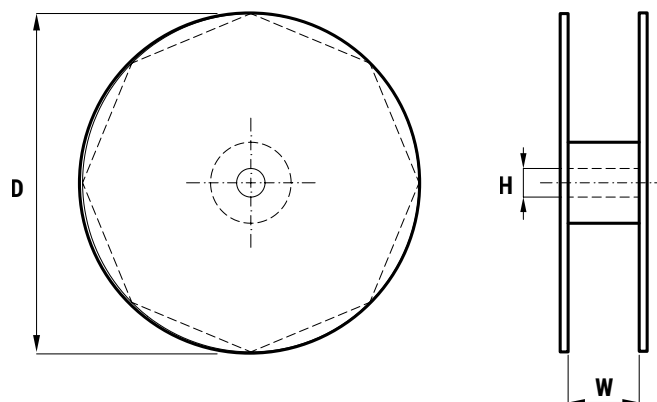
### Ammo Specifications

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



### Reel Specifications

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



### Manufacturing Date Code (IEC-60062)

| Y = Year, Z = Month |      |           |      |
|---------------------|------|-----------|------|
| Year                | Code | Month     | Code |
| 2020                | M    | January   | 1    |
| 2021                | N    | February  | 2    |
| 2022                | P    | March     | 3    |
| 2023                | R    | April     | 4    |
| 2024                | S    | May       | 5    |
| 2025                | T    | June      | 6    |
| 2026                | U    | July      | 7    |
| 2027                | V    | August    | 8    |
| 2028                | W    | September | 9    |
| 2029                | X    | October   | 0    |
| 2030                | A    | November  | N    |
| 2031                | B    | December  | D    |
| 2032                | C    |           |      |
| 2033                | D    |           |      |
| 2034                | E    |           |      |
| 2035                | F    |           |      |
| 2036                | H    |           |      |
| 2037                | J    |           |      |
| 2038                | K    |           |      |
| 2039                | L    |           |      |
| 2040                | M    |           |      |

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