

## Applications

Typical applications include voltage smoothing, noise absorption in high speed operation circuit, multi media instruments, PC (voltage smoothing and noise absorption of CPU, memory and various LSI), Smartphone, mobile phone (stabilization of battery voltage, stabilization for display), LCD TV (stabilization of LCD driver and timing controller) and others (tablet, PC, portable audio player, DSC, DVC, HDD, SSD, communication card)

## K-SIM

For a detailed analysis of specific part numbers, please visit [ksim.kemet.com](http://ksim.kemet.com) to access KEMET's K-SIM software. KEMET K-SIM is designed to simulate behavior of components with respect to frequency, ambient temperature, and DC bias levels.

## Ordering Information

| TE            | PSL                              | B2   | 1A   | 107  | M                     | (45)  | 8R  |
|---------------|----------------------------------|--|--|--|-----------------------|---|---|
| Tape & Reel   | Series                           | Case Code  | DC Rated Voltage in Volts  | Capacitance (pF)   | Capacitance Tolerance | ESR Spec  | Packing Orientation   |
| φ 180 mm reel | Standard product of NeoCapacitor | A (3216-18)<br>B3 (3528-12)<br>B15 (3528-15)<br>B2 (3528-21) | 0E = 2.5 V<br>0G = 4 V<br>0J = 6.3 V<br>1A = 10 V<br>1C = 16 V<br>1D = 20 V<br>1E = 25 V | First two digits represents the cap code.<br>Third digit specifies number of zeros to follow | M = ±20%              | For example: (45) shows 45 mΩ<br>Blank = Refer to PN in Table 1 for specification | 8 = Tape width (8 mm)<br>R = Packaging orientation (Cathode on sprocket hole) |

## Performance Characteristics

| Item   | Performance Characteristics   |               |       |       |       |      |      |      |      |               |       |       |     |      |      |      |      |
|--|---|---------------|-------|-------|-------|------|------|------|------|---------------|-------|-------|-----|------|------|------|------|
| Operating Temperature                            | -55°C to +105°C   |               |       |       |       |      |      |      |      |               |       |       |     |      |      |      |      |
| Rated Voltage Range (V)                          | 2.5 – 25  |               |       |       |       |      |      |      |      |               |       |       |     |      |      |      |      |
| Surge Voltage (V)                                | <table border="1"> <thead> <tr> <th>Rated Voltage</th> <th>2.5 V</th> <th>4 V</th> <th>6.3 V</th> <th>10 V</th> <th>16 V</th> <th>20 V</th> <th>25 V</th> </tr> </thead> <tbody> <tr> <th>Surge Voltage</th> <td>3.3 V</td> <td>5.2 V</td> <td>8 V</td> <td>13 V</td> <td>20 V</td> <td>23 V</td> <td>29 V</td> </tr> </tbody> </table> | Rated Voltage | 2.5 V | 4 V   | 6.3 V | 10 V | 16 V | 20 V | 25 V | Surge Voltage | 3.3 V | 5.2 V | 8 V | 13 V | 20 V | 23 V | 29 V |
|  | Rated Voltage   | 2.5 V         | 4 V   | 6.3 V | 10 V  | 16 V | 20 V | 25 V |      |               |       |       |     |      |      |      |      |
| Surge Voltage                                    | 3.3 V   | 5.2 V         | 8 V   | 13 V  | 20 V  | 23 V | 29 V |      |      |               |       |       |     |      |      |      |      |
| Nominal Capacitance (120 Hz)                     | 3.3 μF ~ 470 μF*  |               |       |       |       |      |      |      |      |               |       |       |     |      |      |      |      |
| Dissipation Factor (tan δ, 120 Hz)               | Refer to Standard Ratings*  |               |       |       |       |      |      |      |      |               |       |       |     |      |      |      |      |
| Leakage Current (LC, V <sub>R</sub> , 5 minutes) | Refer to Standard Ratings   |               |       |       |       |      |      |      |      |               |       |       |     |      |      |      |      |
| Equivalent Series Resistance (ESR, 100 kHz**)    | Refer to Standard Ratings   |               |       |       |       |      |      |      |      |               |       |       |     |      |      |      |      |
| Permissible Ripple Current (100 kHz**)           | Refer to Standard Ratings   |               |       |       |       |      |      |      |      |               |       |       |     |      |      |      |      |

\* For these measurements apply 1.5 VDC

\*\* Partially ESR measurements should be taken at 300 k to 500 kHz

## Qualification

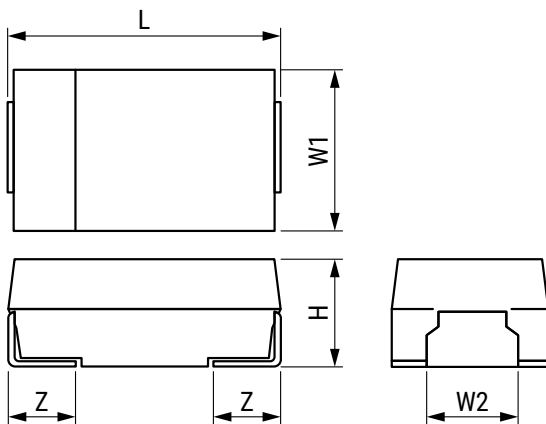
| Test                  | Condition  | Characteristics |                                  |                              |                              |
|-----------------------|--|-----------------|----------------------------------|------------------------------|------------------------------|
| Surge Voltage         | Temperature: 105°C, Surge Voltage apply, 1,000 Ω series resistance, 1,000 cycles | Δ C/C           | +20% ~ -20% of the initial value |                              |                              |
|                       |  | tan δ           | Within IL                        |                              |                              |
|                       |  | LC              | Within IL                        |                              |                              |
| Temperature Stability | Temperature exposure at +25°C, -55°C, +105°C                                     |                 | +25°C                            | -55°C                        | +105°C                       |
|                       |  | Δ C/C           | -                                | 0% ~ -20% compare with +25°C | +50% ~ 0% compare with +25°C |
|                       |  | tan δ           | Within IL                        | Within IL                    | Within 1.5 × IL              |
|                       |  | LC              | Within IL                        | -                            | Within 10 × IL               |
| Endurance             | Temperature: 105°C, Rated voltage apply, 2,000 hours*                            | Δ C/C           | +20% ~ -20% of the initial value |                              |                              |
|                       |  | tan δ           | Within 1.5 × IL                  |                              |                              |
|                       |  | LC              | Within IL                        |                              |                              |
| Humidity              | Temperature: 60°C, Humidity: 90 ~ 95% R.H., 500 hours                            | Δ C/C           | +30% ~ -20% of the initial value |                              |                              |
|                       |  | tan δ           | Within 1.5 × IL                  |                              |                              |
|                       |  | LC              | Within IL                        |                              |                              |

IL = Initial limit

\* 85°C, Rated voltage apply, 1,000 hours for TEPSLB20E477M(14)8R.

## Dimensions – Millimeters

Metric will govern



| Case Size |         | Component Dimensions |         |         |           |        |
|-----------|---------|----------------------|---------|---------|-----------|--------|
| KEMET     | EIA     | L ±0.2               | W1 ±0.2 | W2 ±0.1 | H         | Z ±0.2 |
| A         | 3216-18 | 3.2                  | 1.6     | 1.2     | 1.6 ± 0.2 | 0.8    |
| B3        | 3528-12 | 3.5                  | 2.8     | 2.2     | 1.1 ± 0.1 | 0.8    |
| B15       | 3528-15 | 3.5                  | 2.8     | 2.2     | 1.4 ± 0.1 | 0.8    |
| B2        | 3528-21 | 3.5                  | 2.8     | 2.2     | 1.9 ± 0.1 | 0.8    |

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

| Rated Voltage | Rated Capacitance | Case Code/<br>Case Size | KEMET Part Number   | Leakage Current        | tan δ                          | ESR                              | Permissible Ripple Current                         | Rated and Maximum Operating Temperature |
|---------------|-------------------|-------------------------|---------------------|------------------------|--------------------------------|----------------------------------|--|---|
| V             | µF                | KEMET/EIA               |                     | µA at +25°C<br>Maximum | % at 25°C<br>120 Hz<br>Maximum | mΩ at 25°C<br>100 kHz<br>Maximum | (mA <sub>rms</sub> , +25°C,<br>100 kHz)<br>Maximum | °C                                      |
| 2.5           | 47                | A/3216-18               | TEPSLA0E476M8R      | 11.7                   | 6                              | 180                              | 645  | 105                                     |
| 2.5           | 100               | A/3216-18               | TEPSLA0E107M8R      | 25                     | 8                              | 100                              | 866  | 105                                     |
| 2.5           | 100               | A/3216-18               | TEPSLA0E107M(45)8R  | 25                     | 8                              | 45                               | 1291   | 105                                     |
| 2.5           | 100               | A/3216-18               | TEPSLA0E107M(35)8R  | 25                     | 8                              | 35                               | 1464   | 105                                     |
| 2.5           | 100               | B3/3528-12              | TEPSLB30E107M8R     | 25                     | 8                              | 70                               | 1035   | 105                                     |
| 2.5           | 220               | A/3216-18               | TEPSLA0E227M(70)8R  | 55                     | 8                              | 70                               | 1035   | 105                                     |
| 2.5           | 220               | A/3216-18               | TEPSLA0E227M(45)8R  | 55                     | 8                              | 45 *                             | 1291 *   | 105                                     |
| 2.5           | 220               | A/3216-18               | TEPSLA0E227M(35)8R  | 55                     | 8                              | 35 *                             | 1464 *   | 105                                     |
| 2.5           | 220               | A/3216-18               | TEPSLA0E227M(25)8R  | 55                     | 8                              | 25 *                             | 1732 *   | 105                                     |
| 2.5           | 220               | B2/3528-21              | TEPSLB20E227M8R     | 55                     | 8                              | 45                               | 1374   | 105                                     |
| 2.5           | 220               | B2/3528-21              | TEPSLB20E227M(35)8R | 55                     | 8                              | 35                               | 1558   | 105                                     |
| 2.5           | 220               | B2/3528-21              | TEPSLB20E227M(25)8R | 55                     | 8                              | 25                               | 1844   | 105                                     |
| 2.5           | 220               | B2/3528-21              | TEPSLB20E227M(21)8R | 55                     | 8                              | 21                               | 2012   | 105                                     |
| 2.5           | 220               | B2/3528-21              | TEPSLB20E227M(15)8R | 55                     | 8                              | 15 *                             | 2380 *   | 105                                     |
| 2.5           | 220               | B3/3528-12              | TEPSLB30E227M8R     | 55                     | 8                              | 70                               | 1035   | 105                                     |
| 2.5           | 220               | B3/3528-12              | TEPSLB30E227M(35)8R | 55                     | 8                              | 35                               | 1464   | 105                                     |
| 2.5           | 330               | B2/3528-21              | TEPSLB20E337M(45)8R | 82.5                   | 8                              | 45                               | 1374   | 105                                     |
| 2.5           | 330               | B2/3528-21              | TEPSLB20E337M(35)8R | 82.5                   | 8                              | 35                               | 1558   | 105                                     |
| 2.5           | 330               | B2/3528-21              | TEPSLB20E337M(21)8R | 82.5                   | 8                              | 21                               | 2012   | 105                                     |
| 2.5           | 330               | B2/3528-21              | TEPSLB20E337M(15)8R | 82.5                   | 8                              | 15 *                             | 2380 *   | 105                                     |
| 2.5           | 470               | B2/3528-21              | TEPSLB20E477M(14)8R | 188                    | 8                              | 14 *                             | 2464 *   | 85                                      |
| 4             | 47                | A/3216-18               | TEPSLA0G476M8R      | 18.8                   | 6                              | 180                              | 645  | 105                                     |
| 4             | 47                | A/3216-18               | TEPSLA0G476M(70)8R  | 18.8                   | 6                              | 70                               | 1035   | 105                                     |
| 4             | 68                | A/3216-18               | TEPSLA0G686M8R      | 27.2                   | 6                              | 180                              | 645  | 105                                     |
| 4             | 100               | A/3216-18               | TEPSLA0G107M8R      | 40                     | 8                              | 100                              | 866  | 105                                     |
| 4             | 100               | A/3216-18               | TEPSLA0G107M(45)8R  | 40                     | 8                              | 45                               | 1291   | 105                                     |
| 4             | 100               | A/3216-18               | TEPSLA0G107M(35)8R  | 40                     | 8                              | 35                               | 1464   | 105                                     |
| 4             | 100               | A/3216-18               | TEPSLA0G107M(25)8R  | 40                     | 8                              | 25                               | 1732   | 105                                     |
| 4             | 100               | B2/3528-21              | TEPSLB20G107M8R     | 40                     | 8                              | 70                               | 1102   | 105                                     |
| 4             | 100               | B2/3528-21              | TEPSLB20G107M(45)8R | 40                     | 8                              | 45                               | 1374   | 105                                     |
| 4             | 100               | B2/3528-21              | TEPSLB20G107M(35)8R | 40                     | 8                              | 35                               | 1558   | 105                                     |
| 4             | 100               | B3/3528-12              | TEPSLB30G107M8R     | 40                     | 8                              | 70                               | 1035   | 105                                     |
| 4             | 150               | B2/3528-21              | TEPSLB20G157M8R     | 60                     | 8                              | 45                               | 1374   | 105                                     |
| 4             | 150               | B2/3528-21              | TEPSLB20G157M(35)8R | 60                     | 8                              | 35                               | 1558   | 105                                     |
| 4             | 150               | B2/3528-21              | TEPSLB20G157M(30)8R | 60                     | 8                              | 30                               | 1683   | 105                                     |
| 4             | 150               | B2/3528-21              | TEPSLB20G157M(25)8R | 60                     | 8                              | 25                               | 1844   | 105                                     |
| 4             | 220               | B2/3528-21              | TEPSLB20G227M8R     | 88                     | 8                              | 45                               | 1374   | 105                                     |
| V             | µF                | KEMET/EIA               |                     | µA at +25°C<br>Maximum | % at 25°C<br>120 Hz<br>Maximum | mΩ at 25°C<br>100 kHz<br>Maximum | (mA <sub>rms</sub> , +25°C,<br>100 kHz)<br>Maximum | °C                                      |
| Rated Voltage | Rated Capacitance | Case Code/<br>Case Size | KEMET Part Number   | Leakage Current        | tan δ                          | ESR                              | Permissible Ripple Current                         | Rated and Maximum Operating Temperature |

\* ESR and Ripple measurement condition is 300 to 500kHz

∅ Ripple current condition is at 105°C, 100kHz

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

| Rated Voltage | Rated Capacitance | Case Code/<br>Case Size | KEMET Part Number    | Leakage Current     | tan δ                    | ESR                        | Permissible Ripple Current                   | Rated and Maximum Operating Temperature |
|---------------|-------------------|-------------------------|----------------------|---------------------|--------------------------|----------------------------|--|---|
| V             | µF                | KEMET/EIA               |                      | µA at +25°C Maximum | % at 25°C 120 Hz Maximum | mΩ at 25°C 100 kHz Maximum | (mA <sub>rms</sub> , +25°C, 100 kHz) Maximum | °C                                      |
| 4             | 220               | B2/3528-21              | TEPSLB20G227M(35)8R  | 88                  | 8                        | 35                         | 1558   | 105                                     |
| 4             | 220               | B2/3528-21              | TEPSLB20G227M(15)8R  | 88                  | 8                        | 15                         | 2380   | 105                                     |
| 6.3           | 6.8               | A/3216-18               | TEPSLA0J685M8R       | 4.2                 | 6                        | 300                        | 500  | 105                                     |
| 6.3           | 10                | A/3216-18               | TEPSLA0J106M8R       | 6.3                 | 6                        | 200                        | 612  | 105                                     |
| 6.3           | 15                | A/3216-18               | TEPSLA0J156M8R       | 9.4                 | 6                        | 200                        | 612  | 105                                     |
| 6.3           | 22                | A/3216-18               | TEPSLA0J226M8R       | 13.8                | 6                        | 180                        | 645  | 105                                     |
| 6.3           | 22                | B2/3528-21              | TEPSLB20J226M8R      | 13.8                | 8                        | 150                        | 753  | 105                                     |
| 6.3           | 22                | B3/3528-12              | TEPSLB30J226M8R      | 13.8                | 8                        | 70                         | 1035   | 105                                     |
| 6.3           | 33                | A/3216-18               | TEPSLA0J336M8R       | 20.7                | 6                        | 180                        | 645  | 105                                     |
| 6.3           | 33                | B2/3528-21              | TEPSLB20J336M8R      | 20.7                | 8                        | 150                        | 753  | 105                                     |
| 6.3           | 33                | B3/3528-12              | TEPSLB30J336M8R      | 20.7                | 8                        | 70                         | 1035   | 105                                     |
| 6.3           | 47                | A/3216-18               | TEPSLA0J476M8R       | 29.6                | 6                        | 150                        | 645  | 105                                     |
| 6.3           | 47                | A/3216-18               | TEPSLA0J476M(70)8R   | 29.6                | 6                        | 70                         | 1035   | 105                                     |
| 6.3           | 47                | B2/3528-21              | TEPSLB20J476M8R      | 29.6                | 8                        | 150                        | 753  | 105                                     |
| 6.3           | 47                | B2/3528-21              | TEPSLB20J476M(70)8R  | 29.6                | 8                        | 70                         | 1102   | 105                                     |
| 6.3           | 47                | B3/3528-12              | TEPSLB30J476M8R      | 29.6                | 8                        | 70                         | 1035   | 105                                     |
| 6.3           | 47                | B3/3528-12              | TEPSLB30J476M(55)8R  | 29.6                | 8                        | 55                         | 1168   | 105                                     |
| 6.3           | 68                | A/3216-18               | TEPSLA0J686M(70)8R   | 43                  | 8                        | 70                         | 1035   | 105                                     |
| 6.3           | 68                | B2/3528-21              | TEPSLB20J686M8R      | 42.8                | 8                        | 70                         | 1102   | 105                                     |
| 6.3           | 68                | B2/3528-21              | TEPSLB20J686M(55)8R  | 42.8                | 8                        | 55                         | 1243   | 105                                     |
| 6.3           | 68                | B3/3528-12              | TEPSLB30J686M8R      | 42.8                | 8                        | 70                         | 1035   | 105                                     |
| 6.3           | 100               | A/3216-18               | TEPSLA0J107M8R       | 63                  | 8                        | 70                         | 1035   | 105                                     |
| 6.3           | 100               | A/3216-18               | TEPSLA0J107M(45)8R   | 63                  | 8                        | 45                         | 1291   | 105                                     |
| 6.3           | 100               | A/3216-18               | TEPSLA0J107M(35)8R   | 63                  | 8                        | 35                         | 1464   | 105                                     |
| 6.3           | 100               | A/3216-18               | TEPSLA0J107M(25)8R   | 63                  | 8                        | 25                         | 1735   | 105                                     |
| 6.3           | 100               | B2/3528-21              | TEPSLB20J107M8R      | 63                  | 8                        | 70                         | 1102   | 105                                     |
| 6.3           | 100               | B2/3528-21              | TEPSLB20J107M(45)8R  | 63                  | 8                        | 45                         | 1374   | 105                                     |
| 6.3           | 100               | B2/3528-21              | TEPSLB20J107M(35)8R  | 63                  | 8                        | 35                         | 1558   | 105                                     |
| 6.3           | 100               | B2/3528-21              | TEPSLB20J107M(25)8R  | 63                  | 8                        | 25                         | 1844   | 105                                     |
| 6.3           | 100               | B3/3528-12              | TEPSLB30J107M8R      | 63                  | 8                        | 70                         | 1035   | 105                                     |
| 6.3           | 100               | B3/3528-12              | TEPSLB30J107M(45)8R  | 63                  | 8                        | 45                         | 1291   | 105                                     |
| 6.3           | 150               | B15/3528-15             | TEPSLB150J157M(70)8R | 94.5                | 10                       | 70                         | 1069   | 105                                     |
| 6.3           | 150               | B15/3528-15             | TEPSLB150J157M(35)8R | 94.5                | 10                       | 35                         | 1512   | 105                                     |
| 6.3           | 150               | B2/3528-21              | TEPSLB20J157M(45)8R  | 94.5                | 8                        | 45                         | 1374   | 105                                     |
| 6.3           | 150               | B2/3528-21              | TEPSLB20J157M(35)8R  | 94.5                | 8                        | 35                         | 1558   | 105                                     |
| 6.3           | 150               | B2/3528-21              | TEPSLB20J157M(25)8R  | 94.5                | 8                        | 25                         | 1844   | 105                                     |
| 6.3           | 150               | B3/3528-12              | TEPSLB30J157M(35)8R  | 94.5                | 8                        | 35                         | 1464   | 105                                     |
| V             | µF                | KEMET/EIA               |                      | µA at +25°C Maximum | % at 25°C 120 Hz Maximum | mΩ at 25°C 100 kHz Maximum | (mA <sub>rms</sub> , +25°C, 100 kHz) Maximum | °C                                      |
| Rated Voltage | Rated Capacitance | Case Code/<br>Case Size | KEMET Part Number    | Leakage Current     | tan δ                    | ESR                        | Permissible Ripple Current                   | Rated and Maximum Operating Temperature |

\* ESR and Ripple measurement condition is 300 to 500kHz

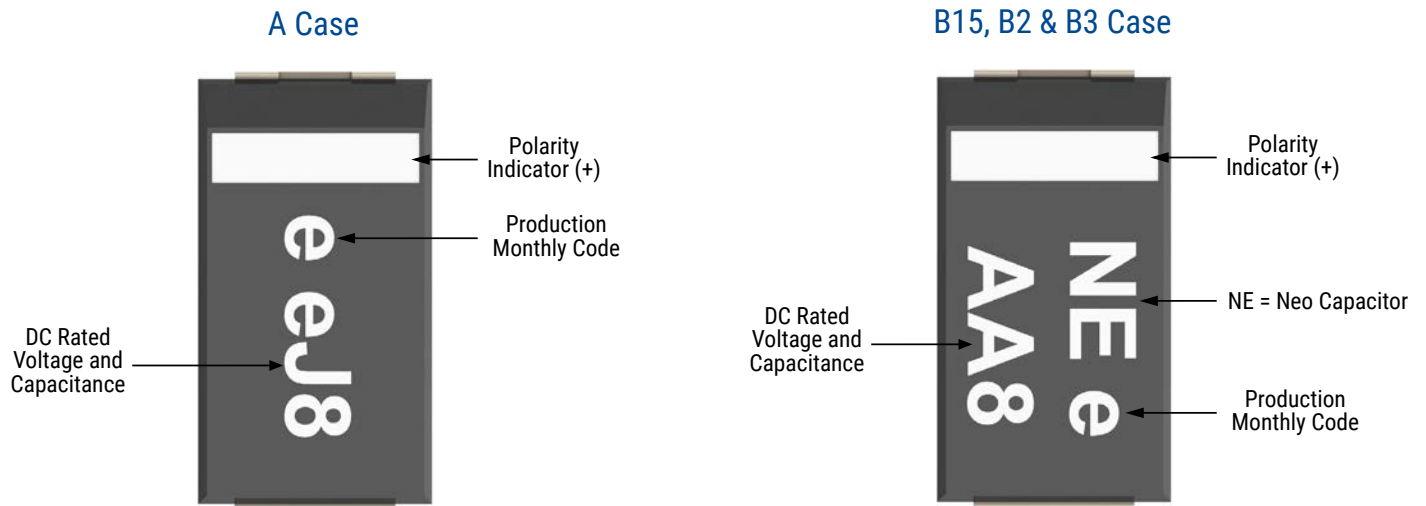
∅ Ripple current condition is at 105°C, 100kHz

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

| Rated Voltage | Rated Capacitance | Case Code/<br>Case Size | KEMET Part Number   | Leakage Current        | tan δ                          | ESR                              | Permissible Ripple Current                         | Rated and Maximum Operating Temperature |
|---------------|-------------------|-------------------------|---------------------|------------------------|--------------------------------|----------------------------------|--|---|
| V             | µF                | KEMET/EIA               |                     | µA at +25°C<br>Maximum | % at 25°C<br>120 Hz<br>Maximum | mΩ at 25°C<br>100 kHz<br>Maximum | (mA <sub>rms</sub> , +25°C,<br>100 kHz)<br>Maximum | °C                                      |
| 6.3           | 220               | B2/3528-21              | TEPSLB20J227M(45)8R | 138.6                  | 8                              | 45                               | 1374   | 105                                     |
| 6.3           | 220               | B2/3528-21              | TEPSLB20J227M(35)8R | 138.6                  | 8                              | 35                               | 1558   | 105                                     |
| 6.3           | 220               | B2/3528-21              | TEPSLB20J227M(25)8R | 138.6                  | 8                              | 25                               | 1844   | 105                                     |
| 6.3           | 220               | B2/3528-21              | TEPSLB20J227M(18)8R | 138.6                  | 8                              | 18                               | 2173   | 105                                     |
| 6.3           | 220               | B2/3528-21              | TEPSLB20J227M(15)8R | 138.6                  | 8                              | 15                               | 2380   | 105                                     |
| 6.3           | 330               | B2/3528-21              | TEPSLB20J337M(45)8R | 415.8                  | 8                              | 45                               | 1374   | 105                                     |
| 10            | 4.7               | A/3216-18               | TEPSLA1A475M8R      | 4.7                    | 6                              | 300                              | 500  | 105                                     |
| 10            | 6.8               | A/3216-18               | TEPSLA1A685M8R      | 6.8                    | 6                              | 300                              | 500  | 105                                     |
| 10            | 10                | A/3216-18               | TEPSLA1A106M8R      | 10                     | 6                              | 200                              | 612  | 105                                     |
| 10            | 10                | B2/3528-21              | TEPSLB21A106M8R     | 10                     | 8                              | 200                              | 652  | 105                                     |
| 10            | 15                | A/3216-18               | TEPSLA1A156M8R      | 15                     | 6                              | 180                              | 645  | 105                                     |
| 10            | 15                | B2/3528-21              | TEPSLB21A156M8R     | 15                     | 8                              | 150                              | 753  | 105                                     |
| 10            | 22                | A/3216-18               | TEPSLA1A226M8R      | 22                     | 6                              | 180                              | 645  | 105                                     |
| 10            | 22                | B2/3528-21              | TEPSLB21A226M8R     | 22                     | 8                              | 150                              | 753  | 105                                     |
| 10            | 22                | B3/3528-12              | TEPSLB31A226M8R     | 22                     | 8                              | 70                               | 1035   | 105                                     |
| 10            | 33                | A/3216-18               | TEPSLA1A336M8R      | 33                     | 8                              | 200                              | 612  | 105                                     |
| 10            | 33                | B2/3528-21              | TEPSLB21A336M8R     | 33                     | 8                              | 150                              | 753  | 105                                     |
| 10            | 33                | B3/3528-12              | TEPSLB31A336M8R     | 33                     | 8                              | 70                               | 1035   | 105                                     |
| 10            | 47                | A/3216-18               | TEPSLA1A476M(180)8R | 47                     | 8                              | 180                              | 645  | 105                                     |
| 10            | 47                | A/3216-18               | TEPSLA1A476M(45)8R  | 47                     | 8                              | 45                               | 1291   | 105                                     |
| 10            | 47                | B2/3528-21              | TEPSLB21A476M8R     | 47                     | 8                              | 70                               | 1102   | 105                                     |
| 10            | 47                | B2/3528-21              | TEPSLB21A476M(35)8R | 47                     | 8                              | 35                               | 1558   | 105                                     |
| 10            | 47                | B3/3528-12              | TEPSLB31A476M8R     | 47                     | 8                              | 70                               | 1035   | 105                                     |
| 10            | 47                | B3/3528-12              | TEPSLB31A476M(45)8R | 47                     | 8                              | 45                               | 1291   | 105                                     |
| 10            | 100               | B2/3528-21              | TEPSLB21A107M(45)8R | 100                    | 10                             | 45                               | 1374   | 105                                     |
| 16            | 3.3               | A/3216-18               | TEPSLA1C335M8R      | 5.2                    | 6                              | 800                              | 306 ∅  | 105                                     |
| 16            | 4.7               | B2/3528-21              | TEPSLB21C475M8R     | 7.5                    | 8                              | 200                              | 652 ∅  | 105                                     |
| 16            | 6.8               | B2/3528-21              | TEPSLB21C685M8R     | 10.8                   | 8                              | 200                              | 652 ∅  | 105                                     |
| 16            | 10                | B2/3528-21              | TEPSLB21C106M8R     | 16                     | 8                              | 100                              | 922 ∅  | 105                                     |
| 16            | 15                | B2/3528-21              | TEPSLB21C156M(90)8R | 16                     | 10                             | 90                               | 972 ∅  | 105                                     |
| 16            | 33                | B2/3528-21              | TEPSLB21C336M8R     | 52.8                   | 8                              | 70                               | 1102 ∅   | 105                                     |
| 16            | 33                | B3/3528-12              | TEPSLB31C336M8R     | 105.6                  | 8                              | 70                               | 1035 ∅   | 105                                     |
| 16            | 33                | B3/3528-12              | TEPSLB31C336M(55)8R | 105.6                  | 8                              | 55                               | 1168 ∅   | 105                                     |
| 16            | 33                | B3/3528-12              | TEPSLB31C336M(45)8R | 105.6                  | 8                              | 45                               | 1291 ∅   | 105                                     |
| 20            | 33                | B2/3528-21              | TEPSLB21D336M8R     | 132                    | 10                             | 90                               | 972 ∅  | 105                                     |
| 25            | 6.8               | B2/3528-21              | TEPSLB21E685M8R     | 17                     | 8                              | 100                              | 922 ∅  | 105                                     |
| 25            | 6.8               | B3/3528-12              | TEPSLB31E685M8R     | 34                     | 8                              | 100                              | 866 ∅  | 105                                     |
| 25            | 10                | B15/3528-15             | TEPSLB151E106M8R    | 50                     | 10                             | 100                              | 894 ∅  | 105                                     |
| 25            | 15                | B2/3528-21              | TEPSLB21E156M8R     | 75                     | 10                             | 100                              | 922 ∅  | 105                                     |
| 25            | 22                | B2/3528-21              | TEPSLB21E226M8R     | 55                     | 10                             | 90                               | 972 ∅  | 105                                     |
| V             | µF                | KEMET/EIA               |                     | µA at +25°C<br>Maximum | % at 25°C<br>120 Hz<br>Maximum | mΩ at 25°C<br>100 kHz<br>Maximum | (mA <sub>rms</sub> , +25°C,<br>100 kHz)<br>Maximum | °C                                      |
| Rated Voltage | Rated Capacitance | Case Code/<br>Case Size | KEMET Part Number   | Leakage Current        | tan δ                          | ESR                              | Permissible Ripple Current                         | Rated and Maximum Operating Temperature |

\* ESR and Ripple measurement condition is 300 to 500kHz  
∅ Ripple current condition is at 105°C, 100kHz

## Capacitor Marking



### DC Rated Voltage and Capacitance Code

| Capacitance<br>( $\mu$ F) |    | Voltage  |        |          |         |         |         |         |
|---------------------------|----|----------|--------|----------|---------|---------|---------|---------|
|                           |    | 2.5<br>e | 4<br>g | 6.3<br>j | 10<br>A | 16<br>C | 20<br>D | 25<br>E |
| 3.3                       | N6 |          |        |          |         | CN6     |         |         |
| 4.7                       | S6 |          |        |          | AS6     | CS6     |         |         |
| 6.8                       | W6 |          |        | jW6      | AW6     | CW6     |         | EW6     |
| 10                        | A7 |          |        | jA7      | AA7     | CA7     |         | EA7     |
| 15                        | E7 |          |        | jE7      | AE7     | CE7     |         | EE7     |
| 22                        | J7 |          |        | jJ7      | AJ7     |         |         | EJ7     |
| 33                        | N7 |          |        | jN7      | AN7     | CN7     | DN7     |         |
| 47                        | S7 | eS7      | gS7    | jS7      | AS7     |         |         |         |
| 68                        | W7 |          | gW7    | jW7      |         |         |         |         |
| 100                       | A8 | eA8      | gA8    | jA8      | AA8     |         |         |         |
| 150                       | E8 |          | gE8    | jE8      |         |         |         |         |
| 220                       | J8 | eJ8      | gJ8    | jJ8      |         |         |         |         |
| 330                       | N8 | eN8      |        | jN8      |         |         |         |         |
| 470                       | S8 | eS8      |        |          |         |         |         |         |

### Production Monthly Code

| Year | Month |     |     |     |     |     |     |     |     |     |     |     |
|------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|      | Jan   | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| 2021 | A     | B   | C   | D   | E   | F   | G   | H   | J   | K   | L   | M   |
| 2022 | N     | P   | Q   | R   | S   | T   | U   | V   | W   | X   | Y   | Z   |
| 2023 | a     | b   | c   | d   | e   | f   | g   | h   | j   | k   | l   | m   |
| 2024 | n     | p   | q   | r   | s   | t   | u   | v   | w   | x   | y   | z   |

Production monthly code will resume beginning in 2025.

## KEMET Electronics Corporation Sales Offices

For a complete list of our global sales offices, please visit [www.kemet.com/sales](http://www.kemet.com/sales).

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