

# R76 Series Double Metallized Polypropylene Film, Radial, DC and Pulse Applications (Automotive Grade)

## Overview

The R76 Series is constructed of polypropylene film and double metallized polyester film as electrodes with radial leads of tinned wire. The radial leads are electrically welded to the metal layer on the ends of the capacitor winding. The capacitor is encapsulated in a self-extinguishing solvent resistant plastic case with thermosetting resin material meeting the UL 94V-0 requirements. Two different winding constructions are used depending on voltage parameters. Please see the Performance Characteristics for more information.

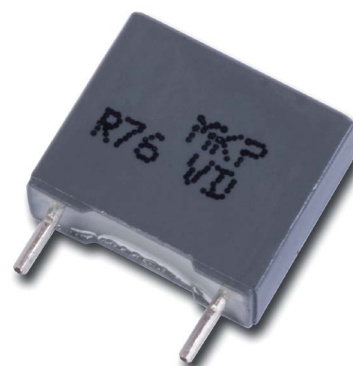
Automotive grade devices are available (up to lead spacing 22.5 mm) and meet the demanding Automotive Electronics Council's AEC-Q200 qualification requirements.

## Applications

Typical applications include deflection circuits in televisions (S-correction and flyback tuning) and monitors, switching spikes suppression in switched mode power supplies (SMPS), lamp capacitors for electronic ballasts and compact lamps, and snubber and silicon-controlled rectifier (SCR) commutation circuits as well as applications with high voltage and high current. Not suitable for across-the-line application (see Suppressor Capacitors).

## Benefits

- Voltage range: 250 – 2,000 VDC
- Capacitance range: 100 pF – 15  $\mu$ F
- Lead Spacing: 7.5 mm – 37.5 mm
- Capacitance tolerance:  $\pm 5\%$ ,  $\pm 10\%$ ,  $\pm 20\%$
- Climatic category: 55/105/56 IEC 60068-1
- Operating temperature range of  $-55^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$
- RoHS compliance and lead-free terminations
- Tape and reel packaging in accordance with IEC 60286-2
- Self-healing
- Automotive (AEC-Q200) grades available up to lead spacing 22.5mm



## Part Number System

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

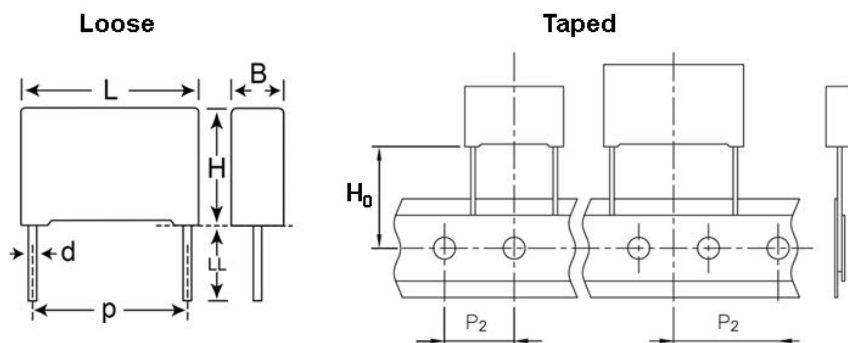
## Ordering Options Table

| Lead Spacing Nominal (mm) | Type of Leads and Packaging                | Lead Length (mm)              | Lead and Packaging Code |
|---------------------------|--------------------------------------------|-------------------------------|-------------------------|
| 7.5                       | <b>Standard Lead and Packaging Options</b> |                               |                         |
|                           | Bulk (Bag) – Short Leads                   | 4 +2/-0                       | SE                      |
|                           | Ammo Pack                                  | H <sub>0</sub> = 18.5 +/-0.5  | DQ                      |
|                           | <b>Other Lead and Packaging Options</b>    |                               |                         |
|                           | Tape & Reel (Standard Reel)                | H <sub>0</sub> = 18.5 +/- 0.5 | CK                      |
|                           | Bulk (Bag)–Short Leads                     | 2.7 +0.5/-0                   | JA                      |
|                           | Bulk (Bag)–Short Leads                     | 3.5 +0.5/-0                   | JB                      |
|                           | Bulk (Bag)–Short Leads                     | 10 +/- 1                      | JC                      |
|                           | Bulk (Bag)–Short Leads                     | 4.0 +0.5/-0                   | JE                      |
|                           | Bulk (Bag)–Short Leads                     | 3.2 +0.3/-0.2                 | JH                      |
|                           | Bulk (Bag)–Long Leads                      | 18 +1/-1                      | JM                      |
|                           | Bulk (Bag)–Long Leads                      | 17 +1/-2                      | Z3                      |
|                           | Bulk (Bag)–Long Leads                      | 30 +5/-0                      | 40                      |
|                           | Bulk (Bag)–Long Leads                      | 25 +2/-1                      | 50                      |
| 10<br>15<br>22.5          | <b>Standard Lead and Packaging Options</b> |                               |                         |
|                           | Bulk (Bag) – Short Leads                   | 4 +2/-0                       | SE                      |
|                           | Ammo Pack                                  | H <sub>0</sub> = 18.5 +/-0.5  | DQ                      |
|                           | <b>Other Lead and Packaging Options</b>    |                               |                         |
|                           | Tape & Reel (Standard Reel)                | H <sub>0</sub> = 18.5 +/- 0.5 | GY                      |
|                           | Tape & Reel (Large Reel)                   | H <sub>0</sub> = 18.5 +/- 0.5 | CK                      |
|                           | Bulk (Bag)–Short Leads                     | 2.7 +0.5/-0                   | JA                      |
|                           | Bulk (Bag)–Short Leads                     | 3.5 +0.5/-0                   | JB                      |
|                           | Bulk (Bag)–Short Leads                     | 10 +/- 1                      | JC                      |
|                           | Bulk (Bag)–Short Leads                     | 4.0 +0.5/-0                   | JE                      |
|                           | Bulk (Bag)–Short Leads                     | 3.2 +0.3/-0.2                 | JH                      |
|                           | Bulk (Bag)–Long Leads                      | 18 +1/-1                      | JM                      |
|                           | Bulk (Bag)–Long Leads                      | 30 +5/-0                      | 40                      |
|                           | Bulk (Bag)–Long Leads                      | 25 +2/-1                      | 50                      |
| 27.5                      | <b>Standard Lead and Packaging Options</b> |                               |                         |
|                           | Bulk (Bag) – Short Leads                   | 4 +2/-0                       | SE                      |
|                           | <b>Other Lead and Packaging Options</b>    |                               |                         |
|                           | Tape & Reel (Large Reel)                   | H <sub>0</sub> = 18.5 +/-0.5  | CK                      |
|                           | Bulk (Bag)–Short Leads                     | 3.5 +0.5/-0                   | JB                      |
|                           | Bulk (Bag)–Short Leads                     | 4.0 +0.5/-0                   | JE                      |
|                           | Bulk (Bag)–Short Leads                     | 3.2 +0.3/-0.2                 | JH                      |
|                           | Bulk (Bag)–Long Leads                      | 30 +5/-0                      | 40                      |
|                           | Bulk (Bag) – Long Leads                    | 25 +2/-1                      | 50                      |

## Ordering Options Table cont'd

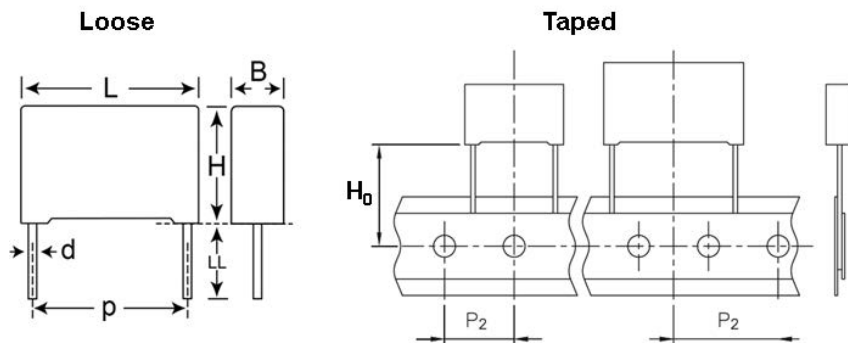
| Lead Spacing<br>Nominal (mm) | Type of Leads and Packaging                | Lead Length<br>(mm) | Lead and<br>Packaging<br>Code |
|------------------------------|--------------------------------------------|---------------------|-------------------------------|
| 37.5                         | <b>Standard Lead and Packaging Options</b> |                     |                               |
|                              | Bulk (Bag)–Short Leads                     | 4 +2/-0             | SE                            |
|                              | <b>Other Lead and Packaging Options</b>    |                     |                               |
|                              | Bulk (Bag)–Short Leads                     | 3.5 +0.5/-0         | JB                            |
|                              | Bulk (Bag)–Short Leads                     | 4.0 +0.5/-0         | JE                            |
|                              | Bulk (Bag)–Short Leads                     | 3.2 +0.3/-0.2       | JH                            |
|                              | Bulk (Bag)–Long Leads                      | 30 +5/-0            | 40                            |
|                              | Bulk (Bag) – Long Leads                    | 25 +2/-1            | 50                            |

## Dimensions – Millimeters



| p                                                                 |           | B       |           | H       |           | L       |           | d       |           |
|-------------------------------------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Nominal                                                           | Tolerance | Nominal | Tolerance | Nominal | Tolerance | Nominal | Tolerance | Nominal | Tolerance |
| 7.5                                                               | +/- 0.4   | 3.0     | +0.1      | 8.0     | +0.1      | 10.0    | +0.2      | 0.5     | +/- 0.05  |
| 7.5                                                               | +/- 0.4   | 4.0     | +0.1      | 9.0     | +0.1      | 10.0    | +0.2      | 0.6     | +/- 0.05  |
| 7.5                                                               | +/- 0.4   | 5.0     | +0.1      | 10.5    | +0.1      | 10.0    | +0.2      | 0.6     | +/- 0.05  |
| 7.5                                                               | +/- 0.4   | 6.0     | +0.1      | 12.0    | +0.1      | 10.0    | +0.2      | 0.6     | +/- 0.05  |
| 10.0                                                              | +/- 0.4   | 4.0     | +0.2      | 9.0     | +0.1      | 13.0    | +0.2      | 0.6     | +/- 0.05  |
| 10.0                                                              | +/- 0.4   | 5.0     | +0.2      | 11.0    | +0.1      | 13.0    | +0.2      | 0.6     | +/- 0.05  |
| 10.0                                                              | +/- 0.4   | 6.0     | +0.2      | 12.0    | +0.1      | 13.0    | +0.2      | 0.6     | +/- 0.05  |
| 15.0                                                              | +/- 0.4   | 4.0     | +0.2      | 10.0    | +0.1      | 18.0    | +0.3      | 0.8     | +/- 0.05  |
| 15.0                                                              | +/- 0.4   | 5.0     | +0.2      | 11.0    | +0.1      | 18.0    | +0.3      | 0.8     | +/- 0.05  |
| 15.0                                                              | +/- 0.4   | 6.0     | +0.2      | 12.0    | +0.1      | 18.0    | +0.3      | 0.8     | +/- 0.05  |
| 15.0                                                              | +/- 0.4   | 7.5     | +0.2      | 13.5    | +0.1      | 18.0    | +0.5      | 0.8     | +/- 0.05  |
| 15.0                                                              | +/- 0.4   | 8.5     | +0.2      | 14.5    | +0.1      | 18.0    | +0.5      | 0.8     | +/- 0.05  |
| 15.0                                                              | +/- 0.4   | 9.0     | +0.2      | 12.5    | +0.1      | 18.0    | +0.5      | 0.8     | +/- 0.05  |
| 15.0                                                              | +/- 0.4   | 10.0    | +0.2      | 16.0    | +0.1      | 18.0    | +0.5      | 0.8     | +/- 0.05  |
| Note: See Ordering Options Table for lead length (LL/Ho) options. |           |         |           |         |           |         |           |         |           |

## Dimensions – Millimeters cont'd



| p       |           | B       |           | H       |           | L       |           | d       |           |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Nominal | Tolerance | Nominal | Tolerance | Nominal | Tolerance | Nominal | Tolerance | Nominal | Tolerance |
| 15.0    | +/- 0.4   | 11.0    | +0.2      | 19.0    | +0.1      | 18.0    | +0.5      | 0.8     | +/- 0.05  |
| 15.0    | +/- 0.4   | 13.0    | +0.2      | 12.0    | +0.1      | 18.0    | +0.5      | 0.8     | +/- 0.05  |
| 22.5    | +/- 0.4   | 6.0     | +0.2      | 15.0    | +0.1      | 26.5    | +0.3      | 0.8     | +/- 0.05  |
| 22.5    | +/- 0.4   | 7.0     | +0.2      | 16.0    | +0.1      | 26.5    | +0.3      | 0.8     | +/- 0.05  |
| 22.5    | +/- 0.4   | 8.5     | +0.2      | 17.0    | +0.1      | 26.5    | +0.3      | 0.8     | +/- 0.05  |
| 22.5    | +/- 0.4   | 10.0    | +0.2      | 18.5    | +0.1      | 26.5    | +0.3      | 0.8     | +/- 0.05  |
| 22.5    | +/- 0.4   | 11.0    | +0.2      | 20.0    | +0.1      | 26.5    | +0.3      | 0.8     | +/- 0.05  |
| 22.5    | +/- 0.4   | 13.0    | +0.2      | 22.0    | +0.1      | 26.5    | +0.3      | 0.8     | +/- 0.05  |
| 27.5    | +/- 0.4   | 9.0     | +0.2      | 17.0    | +0.1      | 32.0    | +0.3      | 0.8     | +/- 0.05  |
| 27.5    | +/- 0.4   | 11.0    | +0.2      | 20.0    | +0.1      | 32.0    | +0.3      | 0.8     | +/- 0.05  |
| 27.5    | +/- 0.4   | 13.0    | +0.2      | 22.0    | +0.1      | 32.0    | +0.3      | 0.8     | +/- 0.05  |
| 27.5    | +/- 0.4   | 13.0    | +0.2      | 25.0    | +0.1      | 32.0    | +0.3      | 0.8     | +/- 0.05  |
| 27.5    | +/- 0.4   | 14.0    | +0.2      | 28.0    | +0.1      | 32.0    | +0.3      | 0.8     | +/- 0.05  |
| 27.5    | +/- 0.4   | 18.0    | +0.2      | 33.0    | +0.1      | 32.0    | +0.3      | 0.8     | +/- 0.05  |
| 27.5    | +/- 0.4   | 22.0    | +0.2      | 37.0    | +0.1      | 32.0    | +0.3      | 0.8     | +/- 0.05  |
| 37.5    | +/- 0.4   | 11.0    | +0.3      | 22.0    | +0.1      | 41.5    | +0.3      | 1.0     | +/- 0.05  |
| 37.5    | +/- 0.4   | 13.0    | +0.3      | 24.0    | +0.1      | 41.5    | +0.3      | 1.0     | +/- 0.05  |
| 37.5    | +/- 0.4   | 16.0    | +0.3      | 28.5    | +0.1      | 41.5    | +0.3      | 1.0     | +/- 0.05  |
| 37.5    | +/- 0.4   | 19.0    | +0.3      | 32.0    | +0.1      | 41.5    | +0.3      | 1.0     | +/- 0.05  |
| 37.5    | +/- 0.4   | 20.0    | +0.3      | 40.0    | +0.1      | 41.5    | +0.3      | 1.0     | +/- 0.05  |
| 37.5    | +/- 0.4   | 24.0    | +0.3      | 44.0    | +0.1      | 41.5    | +0.3      | 1.0     | +/- 0.05  |
| 37.5    | +/- 0.4   | 30.0    | +0.3      | 45.0    | +0.1      | 41.5    | +0.3      | 1.0     | +/- 0.05  |

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

## Performance Characteristic

|                                           |                                                                                                                                                                                                         |              |                 |                     |                  |                     |              |               |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------|---------------------|------------------|---------------------|--------------|---------------|
| Dielectric                                | Polypropylene film                                                                                                                                                                                      |              |                 |                     |                  |                     |              |               |
| Plates                                    | Double sided metallized polyester film                                                                                                                                                                  |              |                 |                     |                  |                     |              |               |
| Winding                                   | Non-inductive type                                                                                                                                                                                      |              |                 |                     |                  |                     |              |               |
| Leads                                     | Tinned wire                                                                                                                                                                                             |              |                 |                     |                  |                     |              |               |
| Protection                                | Plastic case, thermosetting resin filled. Box material is solvent resistant and flame retardant according to UL94.                                                                                      |              |                 |                     |                  |                     |              |               |
| Related Documents                         | IEC 60384-16                                                                                                                                                                                            |              |                 |                     |                  |                     |              |               |
| Sections                                  | 1                                                                                                                                                                                                       |              |                 |                     | 2                |                     |              |               |
| Voltage Range (VDC)                       | 250                                                                                                                                                                                                     | 400          | 630             | 630                 | 1000             | 1000                | 1600         | 2000          |
| Voltage Range (VAC)                       | 180                                                                                                                                                                                                     | 250          | 250             | 400                 | 400              | 600                 | 650          | 700           |
| Capacitance Range (μF)                    | 0.0068 – 15                                                                                                                                                                                             | 0.0027 – 8.2 | 0.00068 – 0.012 | 0.00039 – 5.6       | 0.00022 – 0.0033 | 0.00047 – 2.2       | 0.0033 – 1.2 | 0.0001 – 0.68 |
| Capacitance Values                        | E12 series (IEC 60063) measured @ 1 kHz and +20 ±1°C                                                                                                                                                    |              |                 |                     |                  |                     |              |               |
| Capacitance Tolerance                     | ±2.5%, ±5%, ±10%                                                                                                                                                                                        |              |                 |                     |                  |                     |              |               |
| Operating Temperature Range               | -55°C to +105°C                                                                                                                                                                                         |              |                 |                     |                  |                     |              |               |
| Rated Temperature T <sub>R</sub>          | +85°C for V <sub>R</sub> (DC)<br>+75°C for V <sub>R</sub> (AC)                                                                                                                                          |              |                 |                     |                  |                     |              |               |
| Voltage Derating                          | The following decreasing factor has to be applied on the rated voltage:<br>+85°C to +105°C: 1.25% per °C for V <sub>R</sub> (DC)<br>+75°C to +105°C: 1.35% per °C for V <sub>R</sub> (AC)               |              |                 |                     |                  |                     |              |               |
| Climatic Category                         | 55/105/56 IEC 60068-1                                                                                                                                                                                   |              |                 |                     |                  |                     |              |               |
|                                           | Average relative humidity ≤ 75%                                                                                                                                                                         |              |                 |                     |                  |                     |              |               |
|                                           | RH = 95% for 30 days per year                                                                                                                                                                           |              |                 |                     |                  |                     |              |               |
|                                           | RH = 85% for further days limited by average value per year                                                                                                                                             |              |                 |                     |                  |                     |              |               |
| Test Voltage                              | 1.6 x V <sub>R</sub> VDC for 2 seconds (between terminations) @ +25°C ±5°C                                                                                                                              |              |                 |                     |                  |                     |              |               |
| Capacitance Drift                         | Maximum 0.5% after a 2 year storage period at a temperature of +10°C to +40°C and a relative humidity of 40% to 60%                                                                                     |              |                 |                     |                  |                     |              |               |
| Maximum Pulse Steepness                   | dV/dt according to Table 1. For peak to peak voltages lower than rated voltage (V <sub>pp</sub> < V <sub>R</sub> ), the specified dv/dt can be multiplied by the factor V <sub>R</sub> /V <sub>pp</sub> |              |                 |                     |                  |                     |              |               |
| Temperature Coefficient                   | -(200 ±100) ppm/°C at 1 kHz                                                                                                                                                                             |              |                 |                     |                  |                     |              |               |
| Self-Inductance L<br>(Lead Length ~ 2 mm) | Lead Spacing (mm)                                                                                                                                                                                       | 7.5          | 10              | 15                  | 22.5             | 27.5                | 37.5         |               |
|                                           | L (nH) ≈                                                                                                                                                                                                | 8            | 9               | 10                  | 18               | 18                  | 20           |               |
| Dissipation Factor tanδ                   | Measured at 25°C ± 5°C                                                                                                                                                                                  |              |                 |                     |                  |                     |              |               |
|                                           | Frequency                                                                                                                                                                                               | C ≤ 0.1 μF   |                 | 0.1 μF < C ≤ 1.0 μF |                  | 1.0 μF < C ≤ 4.7 μF |              | C > 1 μF      |
|                                           | 1 kHz                                                                                                                                                                                                   | 0.04%        |                 | 0.05%               |                  | 0.06%               |              | 0.10%         |
|                                           | 10 kHz                                                                                                                                                                                                  | 0.06%        |                 | 0.08%               |                  | -                   |              | -             |
|                                           | 100 kHz                                                                                                                                                                                                 | 0.25%        |                 | -                   |                  | -                   |              | -             |

## Performance Characteristics cont'd

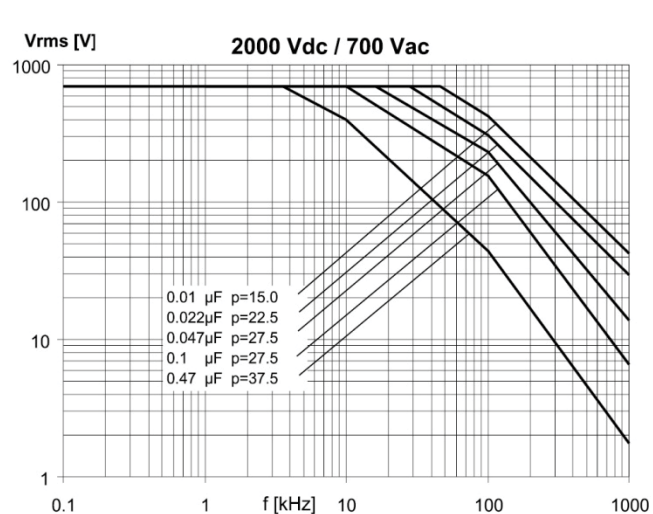
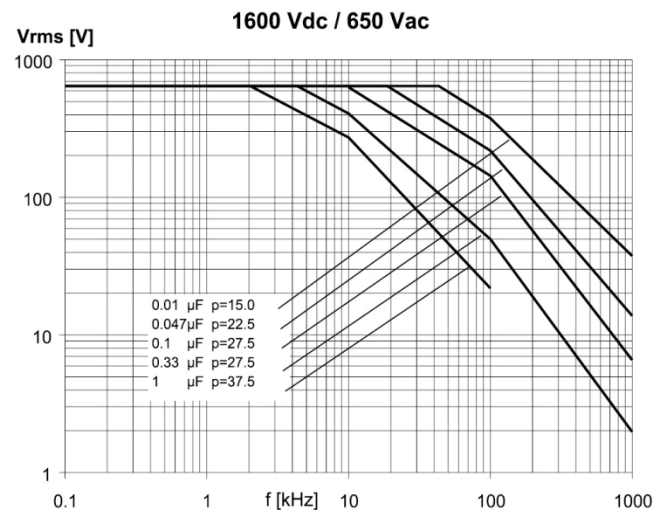
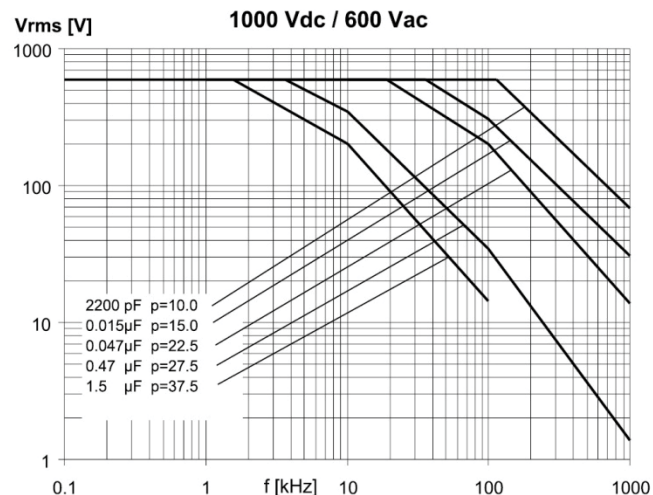
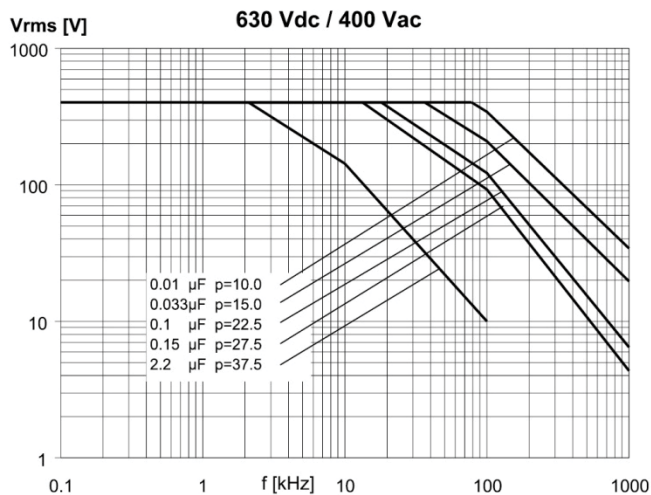
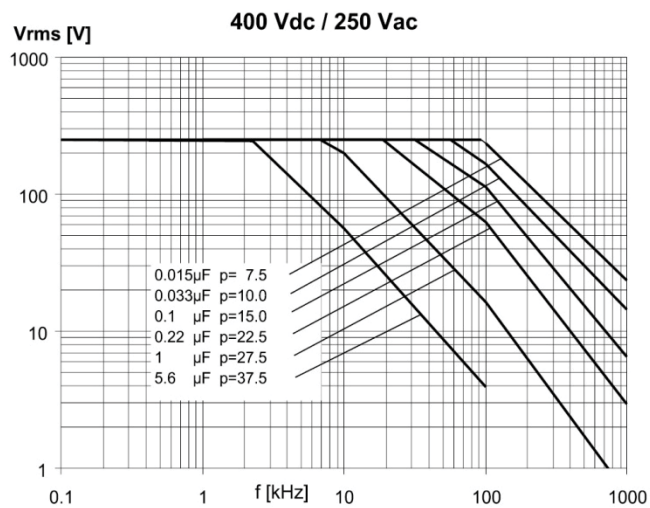
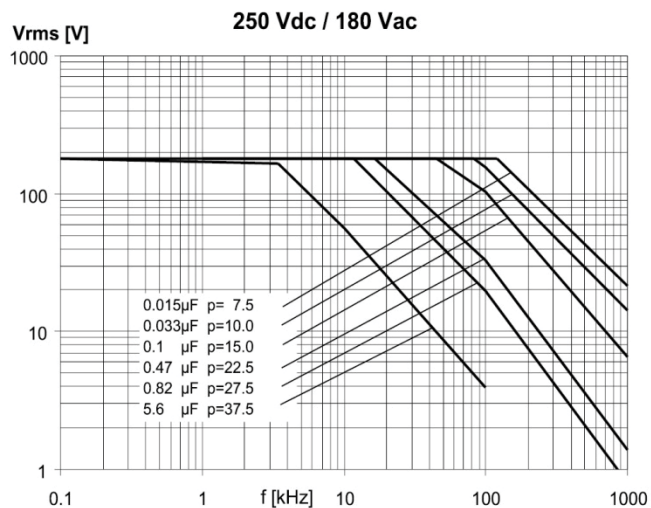
| Insulation Resistance | Measured at +25°C, 100 VDC 60 seconds |                                             |
|-----------------------|---------------------------------------|---------------------------------------------|
|                       | Minimum Values Between Terminals      |                                             |
|                       | C ≤ 0.33 µF                           | C > 0.33 µF                                 |
|                       | ≥ 100,000 MΩ<br>( ≥ 500,000 MΩ ) *    | ≥ 30,000 MΩ • µF<br>( ≥ 150,000 MΩ • µF ) * |

\* typical value

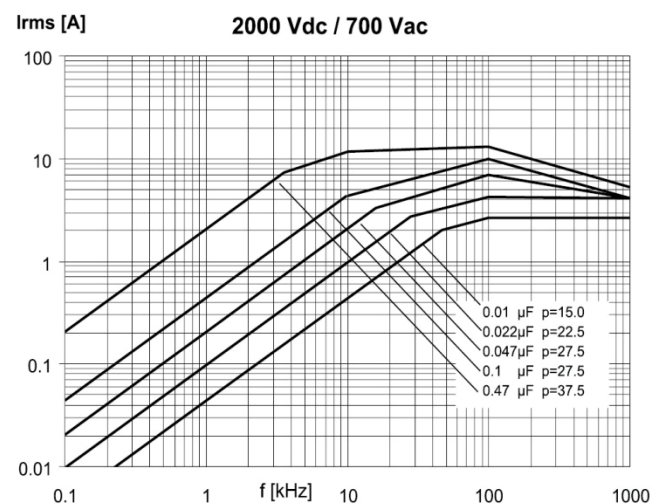
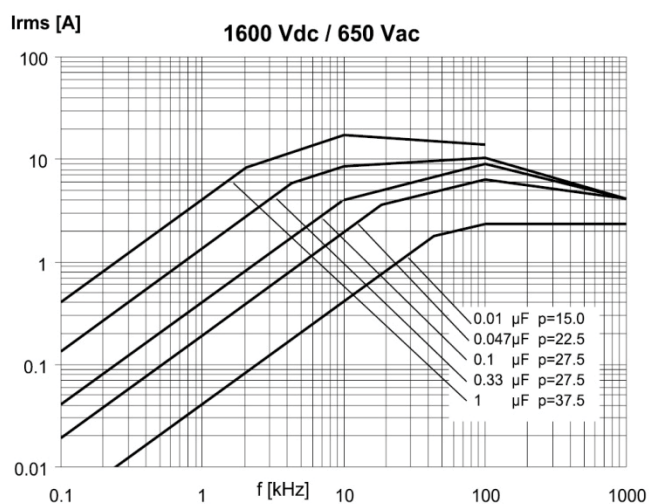
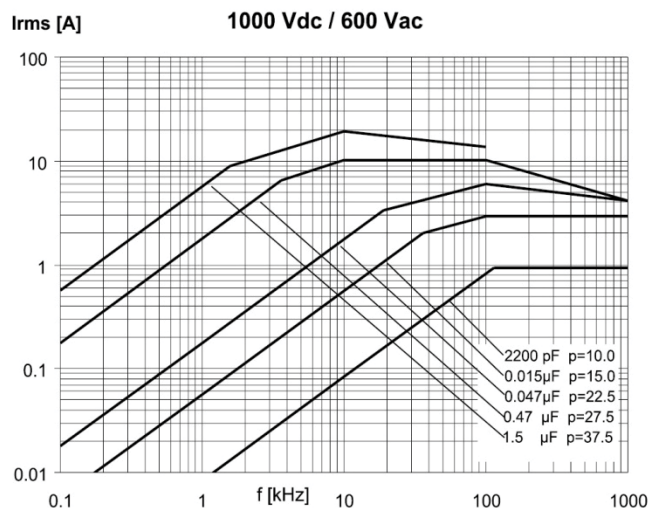
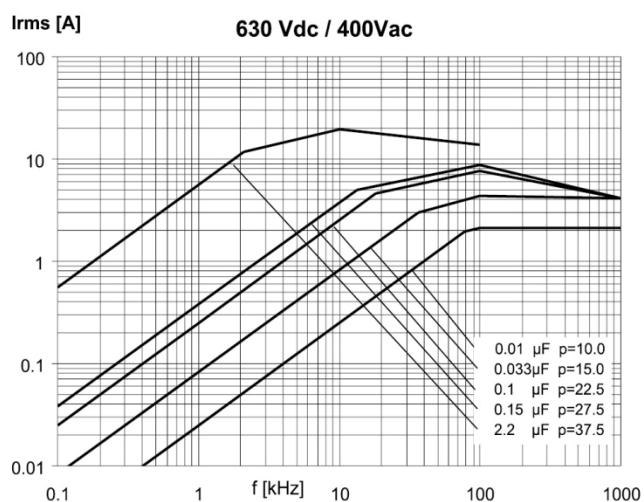
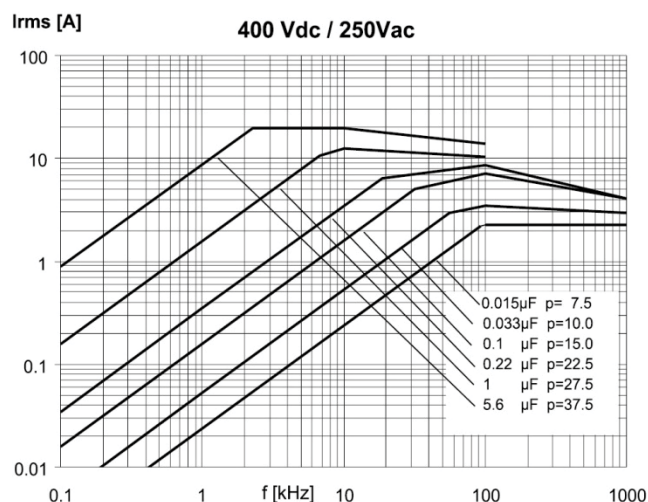
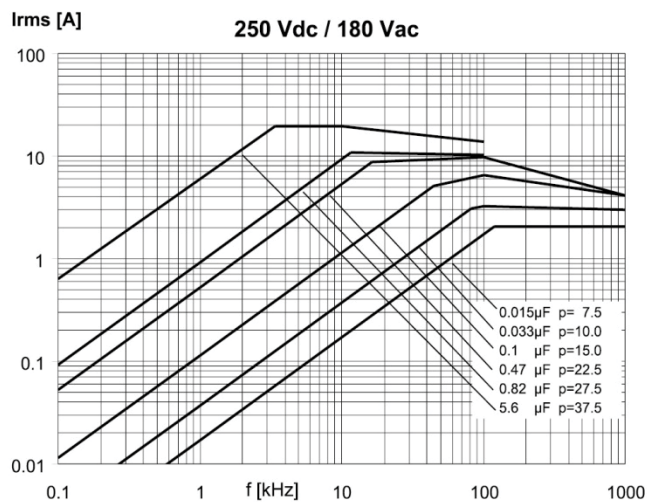
## Qualification

Automotive Grade products meet or exceed the requirements outlined by the Automotive Electronics Council. Details regarding test methods and conditions are referenced in document AEC-Q200, Stress Test Qualification for Passive Components. For additional information regarding the Automotive Electronics Council and AEC-Q200, please visit their website at [www.aecouncil.com](http://www.aecouncil.com).

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



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



Note:  $p$  (pitch) in mm.

## Environmental Test Data

| Damp Heat, Steady State Test      | Test Conditions:                                             |                                                          | Performances                                                                                                                                                                          |
|-----------------------------------|--------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                   | Temperature:<br>Relative humidity (RH):<br>Test duration:    | +40°C ± 2°C<br>93% ± 2%<br>56 days                       | $ \Delta C/C  \leq 2\%$ ,<br>$\Delta \tan \delta \leq 0.001$ @ 1 kHz<br>IR after test $\geq 50\%$ of initial limit                                                                    |
| Endurance Test                    | Test Conditions                                              |                                                          | Performances                                                                                                                                                                          |
|                                   | Temperature:<br>Voltage applied:<br>Test duration:           | +85°C ± 2°C<br>1.25 x V <sub>R</sub> (DC)<br>2,000 hours | $ \Delta C/C  \leq 2\%$ ,<br>$\Delta \tan \delta \leq 0.001$ @10 kHz for C ≤ 1μF<br>$\Delta \tan \delta \leq 0.001$ @ 1 kHz for C > 1μF<br>IR after test $\geq 50\%$ of initial limit |
| Resistance to Soldering Heat Test | Test Conditions                                              |                                                          | Performances                                                                                                                                                                          |
|                                   | Solder bath temperature:<br>Dipping time (with heat screen): | 260°C ± 5°C<br>10 seconds ± 1 second                     | $ \Delta C/C  \leq 1\%$ ,<br>$\Delta \tan \delta \leq 0.001$ @10 kHz for C ≤ 1μF<br>$\Delta \tan \delta \leq 0.001$ @ 1 kHz for C > 1μF<br>IR after test $\geq$ initial limit         |

## Environmental Compliance

All KEMET pulse capacitors are RoHS Compliant.



RoHS Compliant

Table 1 – Ratings &amp; Part Number Reference

| VDC | VAC | Capacitance Value (µF) | Dimensions in mm |        |        | Lead Spacing (p) | dV/dt (V/µs) | Max K <sub>0</sub> (V <sup>2</sup> /µs) | New KEMET Part Number | Legacy Part Number |
|-----|-----|------------------------|------------------|--------|--------|------------------|--------------|-----------------------------------------|-----------------------|--------------------|
|     |     |                        | B                | H      | L      |                  |              |                                         |                       |                    |
| 250 | 180 | 0.0068                 | 3.0              | 8.0    | 10.0   | 7.5              | 1,100        | 550,000                                 | 76ID1680(1)30(2)      | R76ID1680(1)30(2)  |
| 250 | 180 | 0.0082                 | 3.0              | 8.0    | 10.0   | 7.5              | 1,100        | 550,000                                 | 76ID1820(1)30(2)      | R76ID1820(1)30(2)  |
| 250 | 180 | 0.010                  | 3.0              | 8.0    | 10.0   | 7.5              | 1,100        | 550,000                                 | 76ID2100(1)30(2)      | R76ID2100(1)30(2)  |
| 250 | 180 | 0.012                  | 4.0              | 9.0    | 10.0   | 7.5              | 1,100        | 550,000                                 | 76ID2120(1)40(2)      | R76ID2120(1)40(2)  |
| 250 | 180 | 0.015                  | 4.0              | 9.0    | 10.0   | 7.5              | 1,100        | 550,000                                 | 76ID2150(1)40(2)      | R76ID2150(1)40(2)  |
| 250 | 180 | 0.018                  | 4.0              | 9.0    | 10.0   | 7.5              | 1,100        | 550,000                                 | 76ID2180(1)40(2)      | R76ID2180(1)40(2)  |
| 250 | 180 | 0.022                  | 4.0              | 9.0    | 10.0   | 7.5              | 1,100        | 550,000                                 | 76ID2220(1)40(2)      | R76ID2220(1)40(2)  |
| 250 | 180 | 0.027                  | 5.0              | 10.5   | 10.0   | 7.5              | 1,100        | 550,000                                 | 76ID2270(1)40(2)      | R76ID2270(1)40(2)  |
| 250 | 180 | 0.033                  | 5.0              | 10.5   | 10.0   | 7.5              | 1,100        | 550,000                                 | 76ID2330(1)40(2)      | R76ID2330(1)40(2)  |
| 250 | 180 | 0.039                  | 6.0              | 12.0   | 10.5   | 7.5              | 1,100        | 550,000                                 | 76ID2390(1)30(2)      | R76ID2390(1)30(2)  |
| 250 | 180 | 0.047                  | 6.0              | 12.0   | 10.5   | 7.5              | 1,100        | 550,000                                 | 76ID2470(1)30(2)      | R76ID2470(1)30(2)  |
| 250 | 180 | 0.027                  | 4.0              | 9.0    | 13.0   | 10.0             | 1,000        | 500,000                                 | 76IF2270(1)30(2)      | R76IF2270(1)30(2)  |
| 250 | 180 | 0.033                  | 4.0              | 9.0    | 13.0   | 10.0             | 1,000        | 500,000                                 | 76IF2330(1)30(2)      | R76IF2330(1)30(2)  |
| 250 | 180 | 0.039                  | 4.0              | 9.0    | 13.0   | 10.0             | 1,000        | 500,000                                 | 76IF2390(1)30(2)      | R76IF2390(1)30(2)  |
| 250 | 180 | 0.047                  | 5.0              | 11.0   | 13.0   | 10.0             | 1,000        | 500,000                                 | 76IF2470(1)30(2)      | R76IF2470(1)30(2)  |
| 250 | 180 | 0.056                  | 5.0              | 11.0   | 13.0   | 10.0             | 1,000        | 500,000                                 | 76IF2560(1)30(2)      | R76IF2560(1)30(2)  |
| 250 | 180 | 0.068                  | 6.0              | 12.0   | 13.0   | 10.0             | 1,000        | 500,000                                 | 76IF2680(1)30(2)      | R76IF2680(1)30(2)  |
| 250 | 180 | 0.082                  | 6.0              | 12.0   | 13.0   | 10.0             | 1,000        | 500,000                                 | 76IF2820(1)30(2)      | R76IF2820(1)30(2)  |
| 250 | 180 | 0.068                  | 5.0              | 11.0   | 18.0   | 15.0             | 550          | 275,000                                 | 76II2680(1)30(2)      | R76II2680(1)30(2)  |
| 250 | 180 | 0.082                  | 5.0              | 11.0   | 18.0   | 15.0             | 550          | 275,000                                 | 76II2820(1)30(2)      | R76II2820(1)30(2)  |
| 250 | 180 | 0.10                   | 5.0              | 11.0   | 18.0   | 15.0             | 550          | 275,000                                 | 76II3100(1)30(2)      | R76II3100(1)30(2)  |
| 250 | 180 | 0.12                   | 6.0              | 12.0   | 18.0   | 15.0             | 550          | 275,000                                 | 76II3120(1)30(2)      | R76II3120(1)30(2)  |
| 250 | 180 | 0.15                   | 6.0              | 12.0   | 18.0   | 15.0             | 550          | 275,000                                 | 76II3150(1)30(2)      | R76II3150(1)30(2)  |
| 250 | 180 | 0.18                   | 7.5              | 13.5   | 18.0   | 15.0             | 550          | 275,000                                 | 76II3180(1)30(2)      | R76II3180(1)30(2)  |
| 250 | 180 | 0.18                   | 9.0              | 12.5   | 18.0   | 15.0             | 550          | 275,000                                 | 76II3180(1)70(2)      | R76II3180(1)70(2)  |
| 250 | 180 | 0.22                   | 7.5              | 13.5   | 18.0   | 15.0             | 550          | 275,000                                 | 76II3220(1)30(2)      | R76II3220(1)30(2)  |
| 250 | 180 | 0.22                   | 9.0              | 12.5   | 18.0   | 15.0             | 550          | 275,000                                 | 76II3220(1)70(2)      | R76II3220(1)70(2)  |
| 250 | 180 | 0.27                   | 8.5              | 14.5   | 18.0   | 15.0             | 550          | 275,000                                 | 76II3270(1)30(2)      | R76II3270(1)30(2)  |
| 250 | 180 | 0.27                   | 9.0              | 12.5   | 18.0   | 15.0             | 550          | 275,000                                 | 76II3270(1)70(2)      | R76II3270(1)70(2)  |
| 250 | 180 | 0.33                   | 10.0             | 16.0   | 18.0   | 15.0             | 550          | 275,000                                 | 76II3330(1)30(2)      | R76II3330(1)30(2)  |
| 250 | 180 | 0.33                   | 13.0             | 12.0   | 18.0   | 15.0             | 550          | 275,000                                 | 76II3330(1)70(2)      | R76II3330(1)70(2)  |
| 250 | 180 | 0.39                   | 10.0             | 16.0   | 18.0   | 15.0             | 550          | 275,000                                 | 76II3390(1)30(2)      | R76II3390(1)30(2)  |
| 250 | 180 | 0.47                   | 11.0             | 19.0   | 18.0   | 15.0             | 550          | 275,000                                 | 76II3470(1)30(2)      | R76II3470(1)30(2)  |
| 250 | 180 | 0.22                   | 6.0              | 15.0   | 26.5   | 22.5             | 250          | 125,000                                 | 76IN3220(1)00(2)      | R76IN3220(1)00(2)  |
| 250 | 180 | 0.27                   | 6.0              | 15.0   | 26.5   | 22.5             | 250          | 125,000                                 | 76IN3270(1)30(2)      | R76IN3270(1)30(2)  |
| 250 | 180 | 0.33                   | 6.0              | 15.0   | 26.5   | 22.5             | 250          | 125,000                                 | 76IN3330(1)30(2)      | R76IN3330(1)30(2)  |
| 250 | 180 | 0.39                   | 7.0              | 16.0   | 26.5   | 22.5             | 250          | 125,000                                 | 76IN3390(1)30(2)      | R76IN3390(1)30(2)  |
| 250 | 180 | 0.47                   | 7.0              | 16.0   | 26.5   | 22.5             | 250          | 125,000                                 | 76IN3470(1)30(2)      | R76IN3470(1)30(2)  |
| 250 | 180 | 0.56                   | 8.5              | 17.0   | 26.5   | 22.5             | 250          | 125,000                                 | 76IN3560(1)30(2)      | R76IN3560(1)30(2)  |
| 250 | 180 | 0.68                   | 10.0             | 18.5   | 26.5   | 22.5             | 250          | 125,000                                 | 76IN3680(1)30(2)      | R76IN3680(1)30(2)  |
| 250 | 180 | 0.82                   | 10.0             | 18.5   | 26.5   | 22.5             | 250          | 125,000                                 | 76IN3820(1)30(2)      | R76IN3820(1)30(2)  |
| 250 | 180 | 1.0                    | 11.0             | 20.0   | 26.5   | 22.5             | 250          | 125,000                                 | 76IN4100(1)30(2)      | R76IN4100(1)30(2)  |
| 250 | 180 | 1.2                    | 13.0             | 22.0   | 26.5   | 22.5             | 250          | 125,000                                 | 76IN4120(1)30(2)      | R76IN4120(1)30(2)  |
| 250 | 180 | 0.82                   | 9.0              | 17.0   | 32.0   | 27.5             | 200          | 100,000                                 | 76IR3820(1)30(2)      | R76IR3820(1)30(2)  |
| 250 | 180 | 1.0                    | 11.0             | 20.0   | 32.0   | 27.5             | 200          | 100,000                                 | 76IR4100(1)30(2)      | R76IR4100(1)30(2)  |
| 250 | 180 | 1.2                    | 11.0             | 20.0   | 32.0   | 27.5             | 200          | 100,000                                 | 76IR4120(1)40(2)      | R76IR4120(1)40(2)  |
| 250 | 180 | 1.5                    | 13.0             | 22.0   | 32.0   | 27.5             | 200          | 100,000                                 | 76IR4150(1)30(2)      | R76IR4150(1)30(2)  |
| 250 | 180 | 1.8                    | 13.0             | 22.0   | 32.0   | 27.5             | 200          | 100,000                                 | 76IR4180(1)40(2)      | R76IR4180(1)40(2)  |
| 250 | 180 | 2.2                    | 14.0             | 28.0   | 32.0   | 27.5             | 200          | 100,000                                 | 76IR4220(1)40(2)      | R76IR4220(1)40(2)  |
| 250 | 180 | 2.7                    | 18.0             | 33.0   | 32.0   | 27.5             | 200          | 100,000                                 | 76IR4270(1)30(2)      | R76IR4270(1)30(2)  |
| 250 | 180 | 3.3                    | 18.0             | 33.0   | 32.0   | 27.5             | 200          | 100,000                                 | 76IR4330(1)30(2)      | R76IR4330(1)30(2)  |
| 250 | 180 | 3.9                    | 18.0             | 33.0   | 32.0   | 27.5             | 200          | 100,000                                 | 76IR4390(1)30(2)      | R76IR4390(1)30(2)  |
| 250 | 180 | 4.7                    | 22.0             | 37.0   | 32.0   | 27.5             | 200          | 100,000                                 | 76IR4470(1)30(2)      | R76IR4470(1)30(2)  |
| 250 | 180 | 5.6                    | 22.0             | 37.0   | 32.0   | 27.5             | 200          | 100,000                                 | 76IR4560(1)40(2)      | R76IR4560(1)40(2)  |
| 250 | 180 | 1.2                    | 11.0             | 22.0   | 41.5   | 37.5             | 100          | 50,000                                  | 76IW4120(1)30(2)      | R76IW4120(1)30(2)  |
| 250 | 180 | 1.5                    | 11.0             | 22.0   | 41.5   | 37.5             | 100          | 50,000                                  | 76IW4150(1)30(2)      | R76IW4150(1)30(2)  |
| 250 | 180 | 1.8                    | 11.0             | 22.0   | 41.5   | 37.5             | 100          | 50,000                                  | 76IW4180(1)30(2)      | R76IW4180(1)30(2)  |
| 250 | 180 | 2.2                    | 13.0             | 24.0   | 41.5   | 37.5             | 100          | 50,000                                  | 76IW4220(1)30(2)      | R76IW4220(1)30(2)  |
| 250 | 180 | 2.7                    | 13.0             | 24.0   | 41.5   | 37.5             | 100          | 50,000                                  | 76IW4270(1)30(2)      | R76IW4270(1)30(2)  |
| 250 | 180 | 3.3                    | 16.0             | 28.5   | 41.5   | 37.5             | 100          | 50,000                                  | 76IW4330(1)30(2)      | R76IW4330(1)30(2)  |
| VDC | VAC | Capacitance Value (µF) | B (mm)           | H (mm) | L (mm) | Lead Spacing (p) | dV/dt (V/µs) | Max K <sub>0</sub> (V <sup>2</sup> /µs) | New KEMET Part Number | Legacy Part Number |

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

(2) J = 5%, K = 10%

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

| VDC | VAC | Capacitance Value (μF) | Dimensions in mm |        |        | Lead Spacing (p) | dV/dt (V/μs) | Max K <sub>0</sub> (V <sup>2</sup> /μs) | New KEMET Part Number | Legacy Part Number |
|-----|-----|------------------------|------------------|--------|--------|------------------|--------------|-----------------------------------------|-----------------------|--------------------|
|     |     |                        | B                | H      | L      |                  |              |                                         |                       |                    |
| 250 | 180 | 3.9                    | 16.0             | 28.5   | 41.5   | 37.5             | 100          | 50,000                                  | 76IW4390(1)30(2)      | R76IW4390(1)30(2)  |
| 250 | 180 | 4.7                    | 19.0             | 32.0   | 41.5   | 37.5             | 100          | 50,000                                  | 76IW4470(1)30(2)      | R76IW4470(1)30(2)  |
| 250 | 180 | 5.6                    | 19.0             | 32.0   | 41.5   | 37.5             | 100          | 50,000                                  | 76IW4560(1)30(2)      | R76IW4560(1)30(2)  |
| 250 | 180 | 6.8                    | 20.0             | 40.0   | 41.5   | 37.5             | 100          | 50,000                                  | 76IW4680(1)30(2)      | R76IW4680(1)30(2)  |
| 250 | 180 | 8.2                    | 20.0             | 40.0   | 41.5   | 37.5             | 100          | 50,000                                  | 76IW4820(1)30(2)      | R76IW4820(1)30(2)  |
| 250 | 180 | 10                     | 24.0             | 44.0   | 41.5   | 37.5             | 100          | 50,000                                  | 76IW5100(1)30(2)      | R76IW5100(1)30(2)  |
| 250 | 180 | 12                     | 30.0             | 45.0   | 41.5   | 37.5             | 100          | 50,000                                  | 76IW5120(1)30(2)      | R76IW5120(1)30(2)  |
| 250 | 180 | 15                     | 30.0             | 45.0   | 41.5   | 37.5             | 100          | 50,000                                  | 76IW5150(1)30(2)      | R76IW5150(1)30(2)  |
| 400 | 250 | 0.0027                 | 3.0              | 8.0    | 10.0   | 7.5              | 1,700        | 1,360,000                               | 76MD1270(1)30(2)      | R76MD1270(1)30(2)  |
| 400 | 250 | 0.0033                 | 3.0              | 8.0    | 10.0   | 7.5              | 1,700        | 1,360,000                               | 76MD1330(1)30(2)      | R76MD1330(1)30(2)  |
| 400 | 250 | 0.0039                 | 3.0              | 8.0    | 10.0   | 7.5              | 1,700        | 1,360,000                               | 76MD1390(1)30(2)      | R76MD1390(1)30(2)  |
| 400 | 250 | 0.0047                 | 3.0              | 8.0    | 10.0   | 7.5              | 1,700        | 1,360,000                               | 76MD1470(1)30(2)      | R76MD1470(1)30(2)  |
| 400 | 250 | 0.0056                 | 3.0              | 8.0    | 10.0   | 7.5              | 1,700        | 1,360,000                               | 76MD1560(1)30(2)      | R76MD1560(1)30(2)  |
| 400 | 250 | 0.0068                 | 4.0              | 9.0    | 10.0   | 7.5              | 1,700        | 1,360,000                               | 76MD1680(1)40(2)      | R76MD1680(1)40(2)  |
| 400 | 250 | 0.0082                 | 4.0              | 9.0    | 10.0   | 7.5              | 1,700        | 1,360,000                               | 76MD1820(1)40(2)      | R76MD1820(1)40(2)  |
| 400 | 250 | 0.010                  | 4.0              | 9.0    | 10.0   | 7.5              | 1,700        | 1,360,000                               | 76MD2100(1)40(2)      | R76MD2100(1)40(2)  |
| 400 | 250 | 0.012                  | 4.0              | 9.0    | 10.0   | 7.5              | 1,700        | 1,360,000                               | 76MD2120(1)40(2)      | R76MD2120(1)40(2)  |
| 400 | 250 | 0.015                  | 5.0              | 10.5   | 10.0   | 7.5              | 1,700        | 1,360,000                               | 76MD2150(1)40(2)      | R76MD2150(1)40(2)  |
| 400 | 250 | 0.018                  | 5.0              | 10.5   | 10.0   | 7.5              | 1,700        | 1,360,000                               | 76MD2180(1)40(2)      | R76MD2180(1)40(2)  |
| 400 | 250 | 0.022                  | 6.0              | 12.0   | 10.5   | 7.5              | 1,700        | 1,360,000                               | 76MD2220(1)30(2)      | R76MD2220(1)30(2)  |
| 400 | 250 | 0.027                  | 6.0              | 12.0   | 10.5   | 7.5              | 1,700        | 1,360,000                               | 76MD2270(1)30(2)      | R76MD2270(1)30(2)  |
| 400 | 250 | 0.010                  | 4.0              | 9.0    | 13.0   | 10.0             | 1,500        | 1,200,000                               | 76MF2100(1)00(2)      | R76MF2100(1)00(2)  |
| 400 | 250 | 0.012                  | 4.0              | 9.0    | 13.0   | 10.0             | 1,500        | 1,200,000                               | 76MF2120(1)00(2)      | R76MF2120(1)00(2)  |
| 400 | 250 | 0.015                  | 4.0              | 9.0    | 13.0   | 10.0             | 1,500        | 1,200,000                               | 76MF2150(1)30(2)      | R76MF2150(1)30(2)  |
| 400 | 250 | 0.018                  | 4.0              | 9.0    | 13.0   | 10.0             | 1,500        | 1,200,000                               | 76MF2180(1)30(2)      | R76MF2180(1)30(2)  |
| 400 | 250 | 0.022                  | 4.0              | 9.0    | 13.0   | 10.0             | 1,500        | 1,200,000                               | 76MF2220(1)30(2)      | R76MF2220(1)30(2)  |
| 400 | 250 | 0.027                  | 5.0              | 11.0   | 13.0   | 10.0             | 1,500        | 1,200,000                               | 76MF2270(1)30(2)      | R76MF2270(1)30(2)  |
| 400 | 250 | 0.033                  | 5.0              | 11.0   | 13.0   | 10.0             | 1,500        | 1,200,000                               | 76MF2330(1)30(2)      | R76MF2330(1)30(2)  |
| 400 | 250 | 0.039                  | 6.0              | 12.0   | 13.0   | 10.0             | 1,500        | 1,200,000                               | 76MF2390(1)30(2)      | R76MF2390(1)30(2)  |
| 400 | 250 | 0.047                  | 6.0              | 12.0   | 13.0   | 10.0             | 1,500        | 1,200,000                               | 76MF2470(1)30(2)      | R76MF2470(1)30(2)  |
| 400 | 250 | 0.033                  | 5.0              | 11.0   | 18.0   | 15.0             | 900          | 720,000                                 | 76MI2330(1)00(2)      | R76MI2330(1)00(2)  |
| 400 | 250 | 0.039                  | 5.0              | 11.0   | 18.0   | 15.0             | 900          | 720,000                                 | 76MI2390(1)30(2)      | R76MI2390(1)30(2)  |
| 400 | 250 | 0.047                  | 5.0              | 11.0   | 18.0   | 15.0             | 900          | 720,000                                 | 76MI2470(1)30(2)      | R76MI2470(1)30(2)  |
| 400 | 250 | 0.056                  | 5.0              | 11.0   | 18.0   | 15.0             | 900          | 720,000                                 | 76MI2560(1)30(2)      | R76MI2560(1)30(2)  |
| 400 | 250 | 0.068                  | 6.0              | 12.0   | 18.0   | 15.0             | 900          | 720,000                                 | 76MI2680(1)30(2)      | R76MI2680(1)30(2)  |
| 400 | 250 | 0.082                  | 6.0              | 12.0   | 18.0   | 15.0             | 900          | 720,000                                 | 76MI2820(1)30(2)      | R76MI2820(1)30(2)  |
| 400 | 250 | 0.10                   | 7.5              | 13.5   | 18.0   | 15.0             | 900          | 720,000                                 | 76MI3100(1)30(2)      | R76MI3100(1)30(2)  |
| 400 | 250 | 0.10                   | 9.0              | 12.5   | 18.0   | 15.0             | 900          | 720,000                                 | 76MI3100(1)70(2)      | R76MI3100(1)70(2)  |
| 400 | 250 | 0.12                   | 7.5              | 13.5   | 18.0   | 15.0             | 900          | 720,000                                 | 76MI3120(1)30(2)      | R76MI3120(1)30(2)  |
| 400 | 250 | 0.12                   | 9.0              | 12.5   | 18.0   | 15.0             | 900          | 720,000                                 | 76MI3120(1)70(2)      | R76MI3120(1)70(2)  |
| 400 | 250 | 0.15                   | 8.5              | 14.5   | 18.0   | 15.0             | 900          | 720,000                                 | 76MI3150(1)30(2)      | R76MI3150(1)30(2)  |
| 400 | 250 | 0.15                   | 13.0             | 12.0   | 18.0   | 15.0             | 900          | 720,000                                 | 76MI3150(1)70(2)      | R76MI3150(1)70(2)  |
| 400 | 250 | 0.18                   | 10.0             | 16.0   | 18.0   | 15.0             | 900          | 720,000                                 | 76MI3180(1)30(2)      | R76MI3180(1)30(2)  |
| 400 | 250 | 0.18                   | 13.0             | 12.0   | 18.0   | 15.0             | 900          | 720,000                                 | 76MI3180(1)70(2)      | R76MI3180(1)70(2)  |
| 400 | 250 | 0.22                   | 10.0             | 16.0   | 18.0   | 15.0             | 900          | 720,000                                 | 76MI3220(1)30(2)      | R76MI3220(1)30(2)  |
| 400 | 250 | 0.27                   | 11.0             | 19.0   | 18.0   | 15.0             | 900          | 720,000                                 | 76MI3270(1)30(2)      | R76MI3270(1)30(2)  |
| 400 | 250 | 0.12                   | 6.0              | 15.0   | 26.5   | 22.5             | 500          | 400,000                                 | 76MN3120(1)30(2)      | R76MN3120(1)30(2)  |
| 400 | 250 | 0.15                   | 6.0              | 15.0   | 26.5   | 22.5             | 500          | 400,000                                 | 76MN3150(1)30(2)      | R76MN3150(1)30(2)  |
| 400 | 250 | 0.18                   | 6.0              | 15.0   | 26.5   | 22.5             | 500          | 400,000                                 | 76MN3180(1)30(2)      | R76MN3180(1)30(2)  |
| 400 | 250 | 0.22                   | 7.0              | 16.0   | 26.5   | 22.5             | 500          | 400,000                                 | 76MN3220(1)30(2)      | R76MN3220(1)30(2)  |
| 400 | 250 | 0.27                   | 8.5              | 17.0   | 26.5   | 22.5             | 500          | 400,000                                 | 76MN3270(1)30(2)      | R76MN3270(1)30(2)  |
| 400 | 250 | 0.33                   | 8.5              | 17.0   | 26.5   | 22.5             | 500          | 400,000                                 | 76MN3330(1)30(2)      | R76MN3330(1)30(2)  |
| 400 | 250 | 0.39                   | 10.0             | 18.5   | 26.5   | 22.5             | 500          | 400,000                                 | 76MN3390(1)30(2)      | R76MN3390(1)30(2)  |
| 400 | 250 | 0.47                   | 10.0             | 18.5   | 26.5   | 22.5             | 500          | 400,000                                 | 76MN3470(1)30(2)      | R76MN3470(1)30(2)  |
| 400 | 250 | 0.56                   | 11.0             | 20.0   | 26.5   | 22.5             | 500          | 400,000                                 | 76MN3560(1)30(2)      | R76MN3560(1)30(2)  |
| 400 | 250 | 0.68                   | 13.0             | 22.0   | 26.5   | 22.5             | 500          | 400,000                                 | 76MN3680(1)30(2)      | R76MN3680(1)30(2)  |
| 400 | 250 | 0.39                   | 9.0              | 17.0   | 32.0   | 27.5             | 300          | 240,000                                 | 76MR3390(1)30(2)      | R76MR3390(1)30(2)  |
| 400 | 250 | 0.47                   | 9.0              | 17.0   | 32.0   | 27.5             | 300          | 240,000                                 | 76MR3470(1)30(2)      | R76MR3470(1)30(2)  |
| 400 | 250 | 0.56                   | 11.0             | 20.0   | 32.0   | 27.5             | 300          | 240,000                                 | 76MR3560(1)30(2)      | R76MR3560(1)30(2)  |
| 400 | 250 | 0.68                   | 11.0             | 20.0   | 32.0   | 27.5             | 300          | 240,000                                 | 76MR3680(1)30(2)      | R76MR3680(1)30(2)  |
| VDC | VAC | Capacitance Value (μF) | B (mm)           | H (mm) | L (mm) | Lead Spacing (p) | dV/dt (V/μs) | Max K <sub>0</sub> (V <sup>2</sup> /μs) | New KEMET Part Number | Legacy Part Number |

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

(2) J = 5%, K = 10%

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

| VDC | VAC | Capacitance Value (μF) | Dimensions in mm |        |        | Lead Spacing (p) | dV/dt (V/μs) | Max K <sub>0</sub> (V <sup>2</sup> /μs) | New KEMET Part Number | Legacy Part Number |
|-----|-----|------------------------|------------------|--------|--------|------------------|--------------|-----------------------------------------|-----------------------|--------------------|
|     |     |                        | B                | H      | L      |                  |              |                                         |                       |                    |
| 400 | 250 | 0.82                   | 13.0             | 22.0   | 32.0   | 27.5             | 300          | 240,000                                 | 76MR3820(1)30(2)      | R76MR3820(1)30(2)  |
| 400 | 250 | 1.0                    | 13.0             | 22.0   | 32.0   | 27.5             | 300          | 240,000                                 | 76MR4100(1)40(2)      | R76MR4100(1)40(2)  |
| 400 | 250 | 1.2                    | 14.0             | 28.0   | 32.0   | 27.5             | 300          | 240,000                                 | 76MR4120(1)40(2)      | R76MR4120(1)40(2)  |
| 400 | 250 | 1.5                    | 18.0             | 33.0   | 32.0   | 27.5             | 300          | 240,000                                 | 76MR4150(1)30(2)      | R76MR4150(1)30(2)  |
| 400 | 250 | 1.8                    | 18.0             | 33.0   | 32.0   | 27.5             | 300          | 240,000                                 | 76MR4180(1)30(2)      | R76MR4180(1)30(2)  |
| 400 | 250 | 2.2                    | 22.0             | 37.0   | 32.0   | 27.5             | 300          | 240,000                                 | 76MR4220(1)30(2)      | R76MR4220(1)30(2)  |
| 400 | 250 | 2.7                    | 22.0             | 37.0   | 32.0   | 27.5             | 300          | 240,000                                 | 76MR4270(1)30(2)      | R76MR4270(1)30(2)  |
| 400 | 250 | 1.0                    | 11.0             | 22.0   | 41.5   | 37.5             | 180          | 144,000                                 | 76MW4100(1)30(2)      | R76MW4100(1)30(2)  |
| 400 | 250 | 1.2                    | 13.0             | 24.0   | 41.5   | 37.5             | 180          | 144,000                                 | 76MW4120(1)30(2)      | R76MW4120(1)30(2)  |
| 400 | 250 | 1.5                    | 13.0             | 24.0   | 41.5   | 37.5             | 180          | 144,000                                 | 76MW4150(1)30(2)      | R76MW4150(1)30(2)  |
| 400 | 250 | 1.8                    | 16.0             | 28.5   | 41.5   | 37.5             | 180          | 144,000                                 | 76MW4180(1)30(2)      | R76MW4180(1)30(2)  |
| 400 | 250 | 2.2                    | 19.0             | 32.0   | 41.5   | 37.5             | 180          | 144,000                                 | 76MW4220(1)30(2)      | R76MW4220(1)30(2)  |
| 400 | 250 | 2.7                    | 19.0             | 32.0   | 41.5   | 37.5             | 180          | 144,000                                 | 76MW4270(1)30(2)      | R76MW4270(1)30(2)  |
| 400 | 250 | 3.3                    | 19.0             | 32.0   | 41.5   | 37.5             | 180          | 144,000                                 | 76MW4330(1)30(2)      | R76MW4330(1)30(2)  |
| 400 | 250 | 3.9                    | 20.0             | 40.0   | 41.5   | 37.5             | 180          | 144,000                                 | 76MW4390(1)30(2)      | R76MW4390(1)30(2)  |
| 400 | 250 | 4.7                    | 20.0             | 40.0   | 41.5   | 37.5             | 180          | 144,000                                 | 76MW4470(1)30(2)      | R76MW4470(1)30(2)  |
| 400 | 250 | 5.6                    | 24.0             | 44.0   | 41.5   | 37.5             | 180          | 144,000                                 | 76MW4560(1)30(2)      | R76MW4560(1)30(2)  |
| 400 | 250 | 6.8                    | 30.0             | 45.0   | 41.5   | 37.5             | 180          | 144,000                                 | 76MW4680(1)30(2)      | R76MW4680(1)30(2)  |
| 400 | 250 | 8.2                    | 30.0             | 45.0   | 41.5   | 37.5             | 180          | 144,000                                 | 76MW4820(1)30(2)      | R76MW4820(1)30(2)  |
| 630 | 250 | 0.00068                | 3.0              | 8.0    | 10.0   | 7.5              | 2,800        | 3,528,000                               | 76PD0680(1)00(2)      | R76PD0680(1)00(2)  |
| 630 | 250 | 0.0008                 | 3.0              | 8.0    | 10.0   | 7.5              | 2,800        | 3,528,000                               | 76PD0820(1)00(2)      | R76PD0820(1)00(2)  |
| 630 | 250 | 0.0010                 | 3.0              | 8.0    | 10.0   | 7.5              | 2,800        | 3,528,000                               | 76PD1100(1)00(2)      | R76PD1100(1)00(2)  |
| 630 | 250 | 0.0012                 | 3.0              | 8.0    | 10.0   | 7.5              | 2,800        | 3,528,000                               | 76PD1120(1)00(2)      | R76PD1120(1)00(2)  |
| 630 | 250 | 0.0015                 | 3.0              | 8.0    | 10.0   | 7.5              | 2,800        | 3,528,000                               | 76PD1150(1)00(2)      | R76PD1150(1)00(2)  |
| 630 | 250 | 0.0018                 | 3.0              | 8.0    | 10.0   | 7.5              | 2,800        | 3,528,000                               | 76PD1180(1)00(2)      | R76PD1180(1)00(2)  |
| 630 | 250 | 0.0022                 | 3.0              | 8.0    | 10.0   | 7.5              | 2,800        | 3,528,000                               | 76PD1220(1)00(2)      | R76PD1220(1)00(2)  |
| 630 | 250 | 0.0027                 | 4.0              | 9.0    | 10.0   | 7.5              | 2,800        | 3,528,000                               | 76PD1270(1)40(2)      | R76PD1270(1)40(2)  |
| 630 | 250 | 0.0033                 | 4.0              | 9.0    | 10.0   | 7.5              | 2,800        | 3,528,000                               | 76PD1330(1)40(2)      | R76PD1330(1)40(2)  |
| 630 | 250 | 0.0039                 | 4.0              | 9.0    | 10.0   | 7.5              | 2,800        | 3,528,000                               | 76PD1390(1)40(2)      | R76PD1390(1)40(2)  |
| 630 | 250 | 0.0047                 | 4.0              | 9.0    | 10.0   | 7.5              | 2,800        | 3,528,000                               | 76PD1470(1)40(2)      | R76PD1470(1)40(2)  |
| 630 | 250 | 0.0056                 | 4.0              | 9.0    | 10.0   | 7.5              | 2,800        | 3,528,000                               | 76PD1560(1)40(2)      | R76PD1560(1)40(2)  |
| 630 | 250 | 0.0068                 | 5.0              | 10.5   | 10.0   | 7.5              | 2,800        | 3,528,000                               | 76PD1680(1)40(2)      | R76PD1680(1)40(2)  |
| 630 | 250 | 0.0082                 | 5.0              | 10.5   | 10.0   | 7.5              | 2,800        | 3,528,000                               | 76PD1820(1)40(2)      | R76PD1820(1)40(2)  |
| 630 | 250 | 0.010                  | 6.0              | 12.0   | 10.5   | 7.5              | 2,800        | 3,528,000                               | 76PD2100(1)30(2)      | R76PD2100(1)30(2)  |
| 630 | 250 | 0.012                  | 6.0              | 12.0   | 10.5   | 7.5              | 2,800        | 3,528,000                               | 76PD2120(1)30(2)      | R76PD2120(1)30(2)  |
| 630 | 400 | 0.0039                 | 4.0              | 9.0    | 13.0   | 10.0             | 3,000        | 3,780,000                               | 76PF1390(1)00(2)      | R76PF1390(1)00(2)  |
| 630 | 400 | 0.0047                 | 4.0              | 9.0    | 13.0   | 10.0             | 3,000        | 3,780,000                               | 76PF1470(1)00(2)      | R76PF1470(1)00(2)  |
| 630 | 400 | 0.0056                 | 4.0              | 9.0    | 13.0   | 10.0             | 3,000        | 3,780,000                               | 76PF1560(1)00(2)      | R76PF1560(1)00(2)  |
| 630 | 400 | 0.0068                 | 4.0              | 9.0    | 13.0   | 10.0             | 3,000        | 3,780,000                               | 76PF1680(1)00(2)      | R76PF1680(1)00(2)  |
| 630 | 400 | 0.0082                 | 4.0              | 9.0    | 13.0   | 10.0             | 3,000        | 3,780,000                               | 76PF1820(1)00(2)      | R76PF1820(1)00(2)  |
| 630 | 400 | 0.010                  | 5.0              | 11.0   | 13.0   | 10.0             | 3,000        | 3,780,000                               | 76PF2100(1)30(2)      | R76PF2100(1)30(2)  |
| 630 | 400 | 0.012                  | 5.0              | 11.0   | 13.0   | 10.0             | 3,000        | 3,780,000                               | 76PF2120(1)30(2)      | R76PF2120(1)30(2)  |
| 630 | 400 | 0.015                  | 6.0              | 12.0   | 13.0   | 10.0             | 3,000        | 3,780,000                               | 76PF2150(1)30(2)      | R76PF2150(1)30(2)  |
| 630 | 400 | 0.018                  | 6.0              | 12.0   | 13.0   | 10.0             | 3,000        | 3,780,000                               | 76PF2180(1)30(2)      | R76PF2180(1)30(2)  |
| 630 | 400 | 0.012                  | 5.0              | 11.0   | 18.0   | 15.0             | 2,500        | 3,150,000                               | 76PI2120(1)00(2)      | R76PI2120(1)00(2)  |
| 630 | 400 | 0.015                  | 5.0              | 11.0   | 18.0   | 15.0             | 2,500        | 3,150,000                               | 76PI2150(1)00(2)      | R76PI2150(1)00(2)  |
| 630 | 400 | 0.018                  | 5.0              | 11.0   | 18.0   | 15.0             | 2,500        | 3,150,000                               | 76PI2180(1)00(2)      | R76PI2180(1)00(2)  |
| 630 | 400 | 0.022                  | 5.0              | 11.0   | 18.0   | 15.0             | 2,500        | 3,150,000                               | 76PI2220(1)30(2)      | R76PI2220(1)30(2)  |
| 630 | 400 | 0.027                  | 5.0              | 11.0   | 18.0   | 15.0             | 2,500        | 3,150,000                               | 76PI2270(1)30(2)      | R76PI2270(1)30(2)  |
| 630 | 400 | 0.033                  | 6.0              | 12.0   | 18.0   | 15.0             | 2,500        | 3,150,000                               | 76PI2330(1)30(2)      | R76PI2330(1)30(2)  |
| 630 | 400 | 0.039                  | 6.0              | 12.0   | 18.0   | 15.0             | 2,500        | 3,150,000                               | 76PI2390(1)30(2)      | R76PI2390(1)30(2)  |
| 630 | 400 | 0.047                  | 7.5              | 13.5   | 18.0   | 15.0             | 2,500        | 3,150,000                               | 76PI2470(1)30(2)      | R76PI2470(1)30(2)  |
| 630 | 400 | 0.047                  | 9.0              | 12.5   | 18.0   | 15.0             | 2,500        | 3,150,000                               | 76PI2470(1)70(2)      | R76PI2470(1)70(2)  |
| 630 | 400 | 0.056                  | 7.5              | 13.5   | 18.0   | 15.0             | 2,500        | 3,150,000                               | 76PI2560(1)30(2)      | R76PI2560(1)30(2)  |
| 630 | 400 | 0.056                  | 9.0              | 12.5   | 18.0   | 15.0             | 2,500        | 3,150,000                               | 76PI2560(1)70(2)      | R76PI2560(1)70(2)  |
| 630 | 400 | 0.068                  | 8.5              | 14.5   | 18.0   | 15.0             | 2,500        | 3,150,000                               | 76PI2680(1)30(2)      | R76PI2680(1)30(2)  |
| 630 | 400 | 0.068                  | 9.0              | 12.5   | 18.0   | 15.0             | 2,500        | 3,150,000                               | 76PI2680(1)70(2)      | R76PI2680(1)70(2)  |
| 630 | 400 | 0.082                  | 8.5              | 14.5   | 18.0   | 15.0             | 2,500        | 3,150,000                               | 76PI2820(1)30(2)      | R76PI2820(1)30(2)  |
| 630 | 400 | 0.082                  | 13.0             | 12.0   | 18.0   | 15.0             | 2,500        | 3,150,000                               | 76PI2820(1)70(2)      | R76PI2820(1)70(2)  |
| 630 | 400 | 0.10                   | 10.0             | 16.0   | 18.0   | 15.0             | 2,500        | 3,150,000                               | 76PI3100(1)30(2)      | R76PI3100(1)30(2)  |
| VDC | VAC | Capacitance Value (μF) | B (mm)           | H (mm) | L (mm) | Lead Spacing (p) | dV/dt (V/μs) | Max K <sub>0</sub> (V <sup>2</sup> /μs) | New KEMET Part Number | Legacy Part Number |

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

(2) H = 2.5%, J = 5%, K = 10%

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

| VDC   | VAC | Capacitance Value (µF) | Dimensions in mm |        |        | Lead Spacing (p) | dV/dt (V/µs) | Max K <sub>0</sub> (V <sup>2</sup> /µs) | New KEMET Part Number | Legacy Part Number |
|-------|-----|------------------------|------------------|--------|--------|------------------|--------------|-----------------------------------------|-----------------------|--------------------|
|       |     |                        | B                | H      | L      |                  |              |                                         |                       |                    |
| 630   | 400 | 0.12                   | 11.0             | 19.0   | 18.0   | 15.0             | 2,500        | 3,150,000                               | 76PI3120(1)30(2)      | R76PI3120(1)30(2)  |
| 630   | 400 | 0.047                  | 6.0              | 15.0   | 26.5   | 22.5             | 1,500        | 1,890,000                               | 76PN2470(1)00(2)      | R76PN2470(1)00(2)  |
| 630   | 400 | 0.056                  | 6.0              | 15.0   | 26.5   | 22.5             | 1,500        | 1,890,000                               | 76PN2560(1)00(2)      | R76PN2560(1)00(2)  |
| 630   | 400 | 0.068                  | 6.0              | 15.0   | 26.5   | 22.5             | 1,500        | 1,890,000                               | 76PN2680(1)00(2)      | R76PN2680(1)00(2)  |
| 630   | 400 | 0.082                  | 6.0              | 15.0   | 26.5   | 22.5             | 1,500        | 1,890,000                               | 76PN2820(1)30(2)      | R76PN2820(1)30(2)  |
| 630   | 400 | 0.10                   | 6.0              | 15.0   | 26.5   | 22.5             | 1,500        | 1,890,000                               | 76PN3100(1)30(2)      | R76PN3100(1)30(2)  |
| 630   | 400 | 0.12                   | 7.0              | 16.0   | 26.5   | 22.5             | 1,500        | 1,890,000                               | 76PN3120(1)30(2)      | R76PN3120(1)30(2)  |
| 630   | 400 | 0.15                   | 8.5              | 17.0   | 26.5   | 22.5             | 1,500        | 1,890,000                               | 76PN3150(1)30(2)      | R76PN3150(1)30(2)  |
| 630   | 400 | 0.18                   | 8.5              | 17.0   | 26.5   | 22.5             | 1,500        | 1,890,000                               | 76PN3180(1)30(2)      | R76PN3180(1)30(2)  |
| 630   | 400 | 0.22                   | 10.0             | 18.5   | 26.5   | 22.5             | 1,500        | 1,890,000                               | 76PN3220(1)30(2)      | R76PN3220(1)30(2)  |
| 630   | 400 | 0.27                   | 11.0             | 20.0   | 26.5   | 22.5             | 1,500        | 1,890,000                               | 76PN3270(1)30(2)      | R76PN3270(1)30(2)  |
| 630   | 400 | 0.33                   | 11.0             | 20.0   | 26.5   | 22.5             | 1,500        | 1,890,000                               | 76PN3330(1)30(2)      | R76PN3330(1)30(2)  |
| 630   | 400 | 0.39                   | 13.0             | 22.0   | 26.5   | 22.5             | 1,500        | 1,890,000                               | 76PN3390(1)30(2)      | R76PN3390(1)30(2)  |
| 630   | 400 | 0.15                   | 9.0              | 17.0   | 32.0   | 27.5             | 900          | 1,134,000                               | 76PR3150(1)30(2)      | R76PR3150(1)30(2)  |
| 630   | 400 | 0.18                   | 9.0              | 17.0   | 32.0   | 27.5             | 900          | 1,134,000                               | 76PR3180(1)30(2)      | R76PR3180(1)30(2)  |
| 630   | 400 | 0.22                   | 9.0              | 17.0   | 32.0   | 27.5             | 900          | 1,134,000                               | 76PR3220(1)30(2)      | R76PR3220(1)30(2)  |
| 630   | 400 | 0.27                   | 9.0              | 17.0   | 32.0   | 27.5             | 900          | 1,134,000                               | 76PR3270(1)30(2)      | R76PR3270(1)30(2)  |
| 630   | 400 | 0.33                   | 11.0             | 20.0   | 32.0   | 27.5             | 900          | 1,134,000                               | 76PR3330(1)40(2)      | R76PR3330(1)40(2)  |
| 630   | 400 | 0.39                   | 11.0             | 20.0   | 32.0   | 27.5             | 900          | 1,134,000                               | 76PR3390(1)30(2)      | R76PR3390(1)30(2)  |
| 630   | 400 | 0.47                   | 13.0             | 22.0   | 32.0   | 27.5             | 900          | 1,134,000                               | 76PR3470(1)30(2)      | R76PR3470(1)30(2)  |
| 630   | 400 | 0.56                   | 13.0             | 22.0   | 32.0   | 27.5             | 900          | 1,134,000                               | 76PR3560(1)30(2)      | R76PR3560(1)30(2)  |
| 630   | 400 | 0.68                   | 13.0             | 25.0   | 32.0   | 27.5             | 900          | 1,134,000                               | 76PR3680(1)40(2)      | R76PR3680(1)40(2)  |
| 630   | 400 | 0.82                   | 14.0             | 28.0   | 32.0   | 27.5             | 900          | 1,134,000                               | 76PR3820(1)30(2)      | R76PR3820(1)30(2)  |
| 630   | 400 | 1.0                    | 18.0             | 33.0   | 32.0   | 27.5             | 900          | 1,134,000                               | 76PR4100(1)30(2)      | R76PR4100(1)30(2)  |
| 630   | 400 | 1.2                    | 18.0             | 33.0   | 32.0   | 27.5             | 900          | 1,134,000                               | 76PR4120(1)30(2)      | R76PR4120(1)30(2)  |
| 630   | 400 | 1.5                    | 22.0             | 37.0   | 32.0   | 27.5             | 900          | 1,134,000                               | 76PR4150(1)30(2)      | R76PR4150(1)30(2)  |
| 630   | 400 | 1.8                    | 22.0             | 37.0   | 32.0   | 27.5             | 900          | 1,134,000                               | 76PR4180(1)30(2)      | R76PR4180(1)30(2)  |
| 630   | 400 | 0.33                   | 11.0             | 22.0   | 41.5   | 37.5             | 450          | 567,000                                 | 76PW3330(1)30(2)      | R76PW3330(1)30(2)  |
| 630   | 400 | 0.39                   | 11.0             | 22.0   | 41.5   | 37.5             | 450          | 567,000                                 | 76PW3390(1)30(2)      | R76PW3390(1)30(2)  |
| 630   | 400 | 0.47                   | 11.0             | 22.0   | 41.5   | 37.5             | 450          | 567,000                                 | 76PW3470(1)30(2)      | R76PW3470(1)30(2)  |
| 630   | 400 | 0.56                   | 11.0             | 22.0   | 41.5   | 37.5             | 450          | 567,000                                 | 76PW3560(1)30(2)      | R76PW3560(1)30(2)  |
| 630   | 400 | 0.68                   | 11.0             | 22.0   | 41.5   | 37.5             | 450          | 567,000                                 | 76PW3680(1)30(2)      | R76PW3680(1)30(2)  |
| 630   | 400 | 0.82                   | 13.0             | 24.0   | 41.5   | 37.5             | 450          | 567,000                                 | 76PW3820(1)30(2)      | R76PW3820(1)30(2)  |
| 630   | 400 | 1.0                    | 16.0             | 28.5   | 41.5   | 37.5             | 450          | 567,000                                 | 76PW4100(1)30(2)      | R76PW4100(1)30(2)  |
| 630   | 400 | 1.2                    | 16.0             | 28.5   | 41.5   | 37.5             | 450          | 567,000                                 | 76PW4120(1)30(2)      | R76PW4120(1)30(2)  |
| 630   | 400 | 1.5                    | 16.0             | 28.5   | 41.5   | 37.5             | 450          | 567,000                                 | 76PW4150(1)30(2)      | R76PW4150(1)30(2)  |
| 630   | 400 | 1.8                    | 19.0             | 32.0   | 41.5   | 37.5             | 450          | 567,000                                 | 76PW4180(1)30(2)      | R76PW4180(1)30(2)  |
| 630   | 400 | 2.2                    | 20.0             | 40.0   | 41.5   | 37.5             | 450          | 567,000                                 | 76PW4220(1)30(2)      | R76PW4220(1)30(2)  |
| 630   | 400 | 2.7                    | 20.0             | 40.0   | 41.5   | 37.5             | 450          | 567,000                                 | 76PW4270(1)30(2)      | R76PW4270(1)30(2)  |
| 630   | 400 | 3.3                    | 24.0             | 44.0   | 41.5   | 37.5             | 450          | 567,000                                 | 76PW4330(1)30(2)      | R76PW4330(1)30(2)  |
| 630   | 400 | 3.9                    | 30.0             | 45.0   | 41.5   | 37.5             | 450          | 567,000                                 | 76PW4390(1)30(2)      | R76PW4390(1)30(2)  |
| 630   | 400 | 4.7                    | 30.0             | 45.0   | 41.5   | 37.5             | 450          | 567,000                                 | 76PW4470(1)30(2)      | R76PW4470(1)30(2)  |
| 630   | 400 | 5.6                    | 30.0             | 45.0   | 41.5   | 37.5             | 450          | 567,000                                 | 76PW4560(1)30(2)      | R76PW4560(1)30(2)  |
| 1,000 | 400 | 0.00022                | 3.0              | 8.0    | 10.0   | 7.5              | 6,000        | 12,000,000                              | 76QD0220(1)00(2)      | R76QD0220(1)00(2)  |
| 1,000 | 400 | 0.00027                | 3.0              | 8.0    | 10.0   | 7.5              | 6,000        | 12,000,000                              | 76QD0270(1)00(2)      | R76QD0270(1)00(2)  |
| 1,000 | 400 | 0.00033                | 3.0              | 8.0    | 10.0   | 7.5              | 6,000        | 12,000,000                              | 76QD0330(1)00(2)      | R76QD0330(1)00(2)  |
| 1,000 | 400 | 0.00039                | 3.0              | 8.0    | 10.0   | 7.5              | 6,000        | 12,000,000                              | 76QD0390(1)00(2)      | R76QD0390(1)00(2)  |
| 1,000 | 400 | 0.00047                | 3.0              | 8.0    | 10.0   | 7.5              | 6,000        | 12,000,000                              | 76QD0470(1)00(2)      | R76QD0470(1)00(2)  |
| 1,000 | 400 | 0.00056                | 3.0              | 8.0    | 10.0   | 7.5              | 6,000        | 12,000,000                              | 76QD0560(1)00(2)      | R76QD0560(1)00(2)  |
| 1,000 | 400 | 0.00068                | 4.0              | 9.0    | 10.0   | 7.5              | 6,000        | 12,000,000                              | 76QD0680(1)40(2)      | R76QD0680(1)40(2)  |
| 1,000 | 400 | 0.00082                | 4.0              | 9.0    | 10.0   | 7.5              | 6,000        | 12,000,000                              | 76QD0820(1)40(2)      | R76QD0820(1)40(2)  |
| 1,000 | 400 | 0.0010                 | 4.0              | 9.0    | 10.0   | 7.5              | 6,000        | 12,000,000                              | 76QD1100(1)40(2)      | R76QD1100(1)40(2)  |
| 1,000 | 400 | 0.0012                 | 4.0              | 9.0    | 10.0   | 7.5              | 6,000        | 12,000,000                              | 76QD1120(1)40(2)      | R76QD1120(1)40(2)  |
| 1,000 | 400 | 0.0015                 | 5.0              | 10.5   | 10.0   | 7.5              | 6,000        | 12,000,000                              | 76QD1150(1)40(2)      | R76QD1150(1)40(2)  |
| 1,000 | 400 | 0.0018                 | 5.0              | 10.5   | 10.0   | 7.5              | 6,000        | 12,000,000                              | 76QD1180(1)40(2)      | R76QD1180(1)40(2)  |
| 1,000 | 400 | 0.0022                 | 5.0              | 10.5   | 10.0   | 7.5              | 6,000        | 12,000,000                              | 76QD1220(1)40(2)      | R76QD1220(1)40(2)  |
| 1,000 | 400 | 0.0027                 | 6.0              | 12.0   | 10.5   | 7.5              | 6,000        | 12,000,000                              | 76QD1270(1)00(2)      | R76QD1270(1)00(2)  |
| 1,000 | 400 | 0.0033                 | 6.0              | 12.0   | 10.5   | 7.5              | 6,000        | 12,000,000                              | 76QD1330(1)00(2)      | R76QD1330(1)00(2)  |
| 1,000 | 600 | 0.00047                | 4.0              | 9.0    | 13.0   | 10.0             | 4,800        | 9,600,000                               | 76QF0470(1)00(2)      | R76QF0470(1)00(2)  |
| 1,000 | 600 | 0.00056                | 4.0              | 9.0    | 13.0   | 10.0             | 4,800        | 9,600,000                               | 76QF0560(1)00(2)      | R76QF0560(1)00(2)  |
| VDC   | VAC | Capacitance Value (µF) | B (mm)           | H (mm) | L (mm) | Lead Spacing (p) | dV/dt (V/µs) | Max K <sub>0</sub> (V <sup>2</sup> /µs) | New KEMET Part Number | Legacy Part Number |

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

(2) H = 2.5%, J = 5%, K = 10%

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

| VDC   | VAC | Capacitance Value (μF) | Dimensions in mm |        |        | Lead Spacing (p) | dV/dt (V/μs) | Max K <sub>0</sub> (V <sup>2</sup> /μs) | New KEMET Part Number | Legacy Part Number |
|-------|-----|------------------------|------------------|--------|--------|------------------|--------------|-----------------------------------------|-----------------------|--------------------|
|       |     |                        | B                | H      | L      |                  |              |                                         |                       |                    |
| 1,000 | 600 | 0.00068                | 4.0              | 9.0    | 13.0   | 10.0             | 4,800        | 9,600,000                               | 76QF0680(1)00(2)      | R76QF0680(1)00(2)  |
| 1,000 | 600 | 0.00082                | 4.0              | 9.0    | 13.0   | 10.0             | 4,800        | 9,600,000                               | 76QF0820(1)00(2)      | R76QF0820(1)00(2)  |
| 1,000 | 600 | 0.0010                 | 4.0              | 9.0    | 13.0   | 10.0             | 4,800        | 9,600,000                               | 76QF1100(1)00(2)      | R76QF1100(1)00(2)  |
| 1,000 | 600 | 0.0012                 | 4.0              | 9.0    | 13.0   | 10.0             | 4,800        | 9,600,000                               | 76QF1120(1)00(2)      | R76QF1120(1)00(2)  |
| 1,000 | 600 | 0.0015                 | 4.0              | 9.0    | 13.0   | 10.0             | 4,800        | 9,600,000                               | 76QF1150(1)00(2)      | R76QF1150(1)00(2)  |
| 1,000 | 600 | 0.0018                 | 4.0              | 9.0    | 13.0   | 10.0             | 4,800        | 9,600,000                               | 76QF1180(1)00(2)      | R76QF1180(1)00(2)  |
| 1,000 | 600 | 0.0022                 | 4.0              | 9.0    | 13.0   | 10.0             | 4,800        | 9,600,000                               | 76QF1220(1)00(2)      | R76QF1220(1)00(2)  |
| 1,000 | 600 | 0.0027                 | 4.0              | 9.0    | 13.0   | 10.0             | 4,800        | 9,600,000                               | 76QF1270(1)00(2)      | R76QF1270(1)00(2)  |
| 1,000 | 600 | 0.0033                 | 4.0              | 9.0    | 13.0   | 10.0             | 4,800        | 9,600,000                               | 76QF1330(1)30(2)      | R76QF1330(1)30(2)  |
| 1,000 | 600 | 0.0039                 | 5.0              | 11.0   | 13.0   | 10.0             | 4,800        | 9,600,000                               | 76QF1390(1)30(2)      | R76QF1390(1)30(2)  |
| 1,000 | 600 | 0.0047                 | 5.0              | 11.0   | 13.0   | 10.0             | 4,800        | 9,600,000                               | 76QF1470(1)30(2)      | R76QF1470(1)30(2)  |
| 1,000 | 600 | 0.0056                 | 6.0              | 12.0   | 13.0   | 10.0             | 4,800        | 9,600,000                               | 76QF1560(1)30(2)      | R76QF1560(1)30(2)  |
| 1,000 | 600 | 0.0068                 | 6.0              | 12.0   | 13.0   | 10.0             | 4,800        | 9,600,000                               | 76QF1680(1)30(2)      | R76QF1680(1)30(2)  |
| 1,000 | 600 | 0.0082                 | 4.0              | 10.0   | 18.0   | 15.0             | 3,300        | 6,600,000                               | 76QH1820(1)40(2)      | R76QH1820(1)40(2)  |
| 1,000 | 600 | 0.0082                 | 5.0              | 11.0   | 18.0   | 15.0             | 3,300        | 6,600,000                               | 76QI1820(1)00(2)      | R76QI1820(1)00(2)  |
| 1,000 | 600 | 0.010                  | 4.0              | 10.0   | 18.0   | 15.0             | 3,300        | 6,600,000                               | 76QI2100(1)40(2)      | R76QI2100(1)40(2)  |
| 1,000 | 600 | 0.010                  | 5.0              | 11.0   | 18.0   | 15.0             | 3,300        | 6,600,000                               | 76QI2100(1)30(2)      | R76QI2100(1)30(2)  |
| 1,000 | 600 | 0.012                  | 5.0              | 11.0   | 18.0   | 15.0             | 3,300        | 6,600,000                               | 76QI2120(1)30(2)      | R76QI2120(1)30(2)  |
| 1,000 | 600 | 0.015                  | 5.0              | 11.0   | 18.0   | 15.0             | 3,300        | 6,600,000                               | 76QI2150(1)40(2)      | R76QI2150(1)40(2)  |
| 1,000 | 600 | 0.018                  | 5.0              | 11.0   | 18.0   | 15.0             | 3,300        | 6,600,000                               | 76QI2180(1)40(2)      | R76QI2180(1)40(2)  |
| 1,000 | 600 | 0.022                  | 6.0              | 12.0   | 18.0   | 15.0             | 3,300        | 6,600,000                               | 76QI2220(1)40(2)      | R76QI2220(1)40(2)  |
| 1,000 | 600 | 0.022                  | 9.0              | 12.5   | 18.0   | 15.0             | 3,300        | 6,600,000                               | 76QI2220(1)70(2)      | R76QI2220(1)70(2)  |
| 1,000 | 600 | 0.027                  | 7.5              | 13.5   | 18.0   | 15.0             | 3,300        | 6,600,000                               | 76QI2270(1)40(2)      | R76QI2270(1)40(2)  |
| 1,000 | 600 | 0.027                  | 9.0              | 12.5   | 18.0   | 15.0             | 3,300        | 6,600,000                               | 76QI2270(1)70(2)      | R76QI2270(1)70(2)  |
| 1,000 | 600 | 0.033                  | 7.5              | 13.5   | 18.0   | 15.0             | 3,300        | 6,600,000                               | 76QI2330(1)40(2)      | R76QI2330(1)40(2)  |
| 1,000 | 600 | 0.033                  | 13.0             | 12.0   | 18.0   | 15.0             | 3,300        | 6,600,000                               | 76QI2330(1)70(2)      | R76QI2330(1)70(2)  |
| 1,000 | 600 | 0.039                  | 8.5              | 14.5   | 18.0   | 15.0             | 3,300        | 6,600,000                               | 76QI2390(1)40(2)      | R76QI2390(1)40(2)  |
| 1,000 | 600 | 0.047                  | 8.5              | 14.5   | 18.0   | 15.0             | 3,300        | 6,600,000                               | 76QI2470(1)40(2)      | R76QI2470(1)40(2)  |
| 1,000 | 600 | 0.027                  | 6.0              | 15.0   | 26.5   | 22.5             | 2,100        | 4,200,000                               | 76QN2270(1)00(2)      | R76QN2270(1)00(2)  |
| 1,000 | 600 | 0.033                  | 6.0              | 15.0   | 26.5   | 22.5             | 2,100        | 4,200,000                               | 76QN2330(1)30(2)      | R76QN2330(1)30(2)  |
| 1,000 | 600 | 0.039                  | 6.0              | 15.0   | 26.5   | 22.5             | 2,100        | 4,200,000                               | 76QN2390(1)30(2)      | R76QN2390(1)30(2)  |
| 1,000 | 600 | 0.047                  | 7.0              | 16.0   | 26.5   | 22.5             | 2,100        | 4,200,000                               | 76QN2470(1)30(2)      | R76QN2470(1)30(2)  |
| 1,000 | 600 | 0.056                  | 7.0              | 16.0   | 26.5   | 22.5             | 2,100        | 4,200,000                               | 76QN2560(1)30(2)      | R76QN2560(1)30(2)  |
| 1,000 | 600 | 0.068                  | 8.5              | 17.0   | 26.5   | 22.5             | 2,100        | 4,200,000                               | 76QN2680(1)30(2)      | R76QN2680(1)30(2)  |
| 1,000 | 600 | 0.082                  | 10.0             | 18.5   | 26.5   | 22.5             | 2,100        | 4,200,000                               | 76QN2820(1)30(2)      | R76QN2820(1)30(2)  |
| 1,000 | 600 | 0.10                   | 10.0             | 18.5   | 26.5   | 22.5             | 2,100        | 4,200,000                               | 76QN3100(1)30(2)      | R76QN3100(1)30(2)  |
| 1,000 | 600 | 0.12                   | 11.0             | 20.0   | 26.5   | 22.5             | 2,100        | 4,200,000                               | 76QN3120(1)30(2)      | R76QN3120(1)30(2)  |
| 1,000 | 600 | 0.15                   | 13.0             | 22.0   | 26.5   | 22.5             | 2,100        | 4,200,000                               | 76QN3150(1)30(2)      | R76QN3150(1)30(2)  |
| 1,000 | 600 | 0.10                   | 9.0              | 17.0   | 32.0   | 27.5             | 1,000        | 2,000,000                               | 76QR3100(1)40(2)      | R76QR3100(1)40(2)  |
| 1,000 | 600 | 0.12                   | 9.0              | 17.0   | 32.0   | 27.5             | 1,000        | 2,000,000                               | 76QR3120(1)40(2)      | R76QR3120(1)40(2)  |
| 1,000 | 600 | 0.15                   | 11.0             | 20.0   | 32.0   | 27.5             | 1,000        | 2,000,000                               | 76QR3150(1)30(2)      | R76QR3150(1)30(2)  |
| 1,000 | 600 | 0.18                   | 13.0             | 22.0   | 32.0   | 27.5             | 1,000        | 2,000,000                               | 76QR3180(1)30(2)      | R76QR3180(1)30(2)  |
| 1,000 | 600 | 0.22                   | 13.0             | 22.0   | 32.0   | 27.5             | 1,000        | 2,000,000                               | 76QR3220(1)30(2)      | R76QR3220(1)30(2)  |
| 1,000 | 600 | 0.27                   | 13.0             | 25.0   | 32.0   | 27.5             | 1,000        | 2,000,000                               | 76QR3270(1)40(2)      | R76QR3270(1)40(2)  |
| 1,000 | 600 | 0.33                   | 14.0             | 28.0   | 32.0   | 27.5             | 1,000        | 2,000,000                               | 76QR3330(1)30(2)      | R76QR3330(1)30(2)  |
| 1,000 | 600 | 0.39                   | 18.0             | 33.0   | 32.0   | 27.5             | 1,000        | 2,000,000                               | 76QR3390(1)30(2)      | R76QR3390(1)30(2)  |
| 1,000 | 600 | 0.47                   | 18.0             | 33.0   | 32.0   | 27.5             | 1,000        | 2,000,000                               | 76QR3470(1)30(2)      | R76QR3470(1)30(2)  |
| 1,000 | 600 | 0.56                   | 22.0             | 37.0   | 32.0   | 27.5             | 1,000        | 2,000,000                               | 76QR3560(1)30(2)      | R76QR3560(1)30(2)  |
| 1,000 | 600 | 0.68                   | 22.0             | 37.0   | 32.0   | 27.5             | 1,000        | 2,000,000                               | 76QR3680(1)30(2)      | R76QR3680(1)30(2)  |
| 1,000 | 600 | 0.18                   | 11.0             | 22.0   | 41.5   | 37.5             | 500          | 1,000,000                               | 76QW3180(1)30(2)      | R76QW3180(1)30(2)  |
| 1,000 | 600 | 0.22                   | 11.0             | 22.0   | 41.5   | 37.5             | 500          | 1,000,000                               | 76QW3220(1)30(2)      | R76QW3220(1)30(2)  |
| 1,000 | 600 | 0.27                   | 13.0             | 24.0   | 41.5   | 37.5             | 500          | 1,000,000                               | 76QW3270(1)30(2)      | R76QW3270(1)30(2)  |
| 1,000 | 600 | 0.33                   | 13.0             | 24.0   | 41.5   | 37.5             | 500          | 1,000,000                               | 76QW3330(1)30(2)      | R76QW3330(1)30(2)  |
| 1,000 | 600 | 0.39                   | 16.0             | 28.5   | 41.5   | 37.5             | 500          | 1,000,000                               | 76QW3390(1)30(2)      | R76QW3390(1)30(2)  |
| 1,000 | 600 | 0.47                   | 16.0             | 28.5   | 41.5   | 37.5             | 500          | 1,000,000                               | 76QW3470(1)30(2)      | R76QW3470(1)30(2)  |
| 1,000 | 600 | 0.56                   | 16.0             | 28.5   | 41.5   | 37.5             | 500          | 1,000,000                               | 76QW3560(1)30(2)      | R76QW3560(1)30(2)  |
| 1,000 | 600 | 0.68                   | 19.0             | 32.0   | 41.5   | 37.5             | 500          | 1,000,000                               | 76QW3680(1)30(2)      | R76QW3680(1)30(2)  |
| 1,000 | 600 | 0.82                   | 20.0             | 40.0   | 41.5   | 37.5             | 500          | 1,000,000                               | 76QW3820(1)30(2)      | R76QW3820(1)30(2)  |
| 1,000 | 600 | 1.0                    | 20.0             | 40.0   | 41.5   | 37.5             | 500          | 1,000,000                               | 76QW4100(1)30(2)      | R76QW4100(1)30(2)  |
| 1,000 | 600 | 1.2                    | 24.0             | 44.0   | 41.5   | 37.5             | 500          | 1,000,000                               | 76QW4120(1)30(2)      | R76QW4120(1)30(2)  |
| VDC   | VAC | Capacitance Value (μF) | B (mm)           | H (mm) | L (mm) | Lead Spacing (p) | dV/dt (V/μs) | Max K <sub>0</sub> (V <sup>2</sup> /μs) | New KEMET Part Number | Legacy Part Number |

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

(2) H = 2.5%, J = 5%, K = 10%

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

| VDC   | VAC | Capacitance Value (µF) | Dimensions in mm |        |        | Lead Spacing (p) | dV/dt (V/µs) | Max K <sub>0</sub> (V <sup>2</sup> /µs) | New KEMET Part Number | Legacy Part Number |
|-------|-----|------------------------|------------------|--------|--------|------------------|--------------|-----------------------------------------|-----------------------|--------------------|
|       |     |                        | B                | H      | L      |                  |              |                                         |                       |                    |
| 1,000 | 600 | 1.5                    | 24.0             | 44.0   | 41.5   | 37.5             | 500          | 1,000,000                               | 76QW4150(1)30(2)      | R76QW4150(1)30(2)  |
| 1,000 | 600 | 1.8                    | 30.0             | 45.0   | 41.5   | 37.5             | 500          | 1,000,000                               | 76QW4180(1)30(2)      | R76QW4180(1)30(2)  |
| 1,000 | 600 | 2.2                    | 30.0             | 45.0   | 41.5   | 37.5             | 500          | 1,000,000                               | 76QW4220(1)30(2)      | R76QW4220(1)30(2)  |
| 1,600 | 650 | 0.0033                 | 4.0              | 10.0   | 18.0   | 15.0             | 6,000        | 19,200,000                              | 76T11330(1)40(2)      | R76T11330(1)40(2)  |
| 1,600 | 650 | 0.0033                 | 5.0              | 11.0   | 18.0   | 15.0             | 6,000        | 19,200,000                              | 76T11330(1)30(2)      | R76T11330(1)30(2)  |
| 1,600 | 650 | 0.0039                 | 4.0              | 10.0   | 18.0   | 15.0             | 6,000        | 19,200,000                              | 76T11390(1)40(2)      | R76T11390(1)40(2)  |
| 1,600 | 650 | 0.0039                 | 5.0              | 11.0   | 18.0   | 15.0             | 6,000        | 19,200,000                              | 76T11390(1)30(2)      | R76T11390(1)30(2)  |
| 1,600 | 650 | 0.0047                 | 4.0              | 10.0   | 18.0   | 15.0             | 6,000        | 19,200,000                              | 76T11470(1)40(2)      | R76T11470(1)40(2)  |
| 1,600 | 650 | 0.0047                 | 5.0              | 11.0   | 18.0   | 15.0             | 6,000        | 19,200,000                              | 76T11470(1)30(2)      | R76T11470(1)30(2)  |
| 1,600 | 650 | 0.0056                 | 4.0              | 10.0   | 18.0   | 15.0             | 6,000        | 19,200,000                              | 76T11560(1)40(2)      | R76T11560(1)40(2)  |
| 1,600 | 650 | 0.0056                 | 5.0              | 11.0   | 18.0   | 15.0             | 6,000        | 19,200,000                              | 76T11560(1)30(2)      | R76T11560(1)30(2)  |
| 1,600 | 650 | 0.0068                 | 5.0              | 11.0   | 18.0   | 15.0             | 6,000        | 19,200,000                              | 76T11680(1)30(2)      | R76T11680(1)30(2)  |
| 1,600 | 650 | 0.0082                 | 5.0              | 11.0   | 18.0   | 15.0             | 6,000        | 19,200,000                              | 76T11820(1)40(2)      | R76T11820(1)40(2)  |
| 1,600 | 650 | 0.010                  | 5.0              | 11.0   | 18.0   | 15.0             | 6,000        | 19,200,000                              | 76T12100(1)40(2)      | R76T12100(1)40(2)  |
| 1,600 | 650 | 0.012                  | 6.0              | 12.0   | 18.0   | 15.0             | 6,000        | 19,200,000                              | 76T12120(1)40(2)      | R76T12120(1)40(2)  |
| 1,600 | 650 | 0.015                  | 6.0              | 12.0   | 18.0   | 15.0             | 6,000        | 19,200,000                              | 76T12150(1)40(2)      | R76T12150(1)40(2)  |
| 1,600 | 650 | 0.018                  | 7.5              | 13.5   | 18.0   | 15.0             | 6,000        | 19,200,000                              | 76T12180(1)40(2)      | R76T12180(1)40(2)  |
| 1,600 | 650 | 0.018                  | 9.0              | 12.5   | 18.0   | 15.0             | 6,000        | 19,200,000                              | 76T12180(1)70(2)      | R76T12180(1)70(2)  |
| 1,600 | 650 | 0.022                  | 7.5              | 13.5   | 18.0   | 15.0             | 6,000        | 19,200,000                              | 76T12220(1)40(2)      | R76T12220(1)40(2)  |
| 1,600 | 650 | 0.022                  | 13.0             | 12.0   | 18.0   | 15.0             | 6,000        | 19,200,000                              | 76T12220(1)70(2)      | R76T12220(1)70(2)  |
| 1,600 | 650 | 0.027                  | 8.5              | 14.5   | 18.0   | 15.0             | 6,000        | 19,200,000                              | 76T12270(1)40(2)      | R76T12270(1)40(2)  |
| 1,600 | 650 | 0.033                  | 8.5              | 14.5   | 18.0   | 15.0             | 6,000        | 19,200,000                              | 76T12330(1)40(2)      | R76T12330(1)40(2)  |
| 1,600 | 650 | 0.015                  | 6.0              | 15.0   | 26.5   | 22.5             | 3,000        | 9,600,000                               | 76TN2150(1)30(2)      | R76TN2150(1)30(2)  |
| 1,600 | 650 | 0.018                  | 6.0              | 15.0   | 26.5   | 22.5             | 3,000        | 9,600,000                               | 76TN2180(1)30(2)      | R76TN2180(1)30(2)  |
| 1,600 | 650 | 0.022                  | 6.0              | 15.0   | 26.5   | 22.5             | 3,000        | 9,600,000                               | 76TN2220(1)30(2)      | R76TN2220(1)30(2)  |
| 1,600 | 650 | 0.027                  | 6.0              | 15.0   | 26.5   | 22.5             | 3,000        | 9,600,000                               | 76TN2270(1)30(2)      | R76TN2270(1)30(2)  |
| 1,600 | 650 | 0.033                  | 6.0              | 15.0   | 26.5   | 22.5             | 3,000        | 9,600,000                               | 76TN2330(1)40(2)      | R76TN2330(1)40(2)  |
| 1,600 | 650 | 0.039                  | 7.0              | 16.0   | 26.5   | 22.5             | 3,000        | 9,600,000                               | 76TN2390(1)40(2)      | R76TN2390(1)40(2)  |
| 1,600 | 650 | 0.047                  | 7.0              | 16.0   | 26.5   | 22.5             | 3,000        | 9,600,000                               | 76TN2470(1)40(2)      | R76TN2470(1)40(2)  |
| 1,600 | 650 | 0.056                  | 8.5              | 17.0   | 26.5   | 22.5             | 3,000        | 9,600,000                               | 76TN2560(1)40(2)      | R76TN2560(1)40(2)  |
| 1,600 | 650 | 0.068                  | 10.0             | 18.5   | 26.5   | 22.5             | 3,000        | 9,600,000                               | 76TN2680(1)40(2)      | R76TN2680(1)40(2)  |
| 1,600 | 650 | 0.082                  | 10.0             | 18.5   | 26.5   | 22.5             | 3,000        | 9,600,000                               | 76TN2820(1)40(2)      | R76TN2820(1)40(2)  |
| 1,600 | 650 | 0.10                   | 11.0             | 20.0   | 26.5   | 22.5             | 3,000        | 9,600,000                               | 76TN3100(1)40(2)      | R76TN3100(1)40(2)  |
| 1,600 | 650 | 0.039                  | 9.0              | 17.0   | 32.0   | 27.5             | 2,000        | 6,400,000                               | 76TR2390(1)30(2)      | R76TR2390(1)30(2)  |
| 1,600 | 650 | 0.047                  | 9.0              | 17.0   | 32.0   | 27.5             | 2,000        | 6,400,000                               | 76TR2470(1)30(2)      | R76TR2470(1)30(2)  |
| 1,600 | 650 | 0.056                  | 9.0              | 17.0   | 32.0   | 27.5             | 2,000        | 6,400,000                               | 76TR2560(1)30(2)      | R76TR2560(1)30(2)  |
| 1,600 | 650 | 0.068                  | 9.0              | 17.0   | 32.0   | 27.5             | 2,000        | 6,400,000                               | 76TR2680(1)30(2)      | R76TR2680(1)30(2)  |
| 1,600 | 650 | 0.082                  | 11.0             | 20.0   | 32.0   | 27.5             | 2,000        | 6,400,000                               | 76TR2820(1)30(2)      | R76TR2820(1)30(2)  |
| 1,600 | 650 | 0.10                   | 11.0             | 20.0   | 32.0   | 27.5             | 2,000        | 6,400,000                               | 76TR3100(1)30(2)      | R76TR3100(1)30(2)  |
| 1,600 | 650 | 0.12                   | 13.0             | 22.0   | 32.0   | 27.5             | 2,000        | 6,400,000                               | 76TR3120(1)30(2)      | R76TR3120(1)30(2)  |
| 1,600 | 650 | 0.15                   | 13.0             | 25.0   | 32.0   | 27.5             | 2,000        | 6,400,000                               | 76TR3150(1)40(2)      | R76TR3150(1)40(2)  |
| 1,600 | 650 | 0.18                   | 14.0             | 28.0   | 32.0   | 27.5             | 2,000        | 6,400,000                               | 76TR3180(1)40(2)      | R76TR3180(1)40(2)  |
| 1,600 | 650 | 0.22                   | 18.0             | 33.0   | 32.0   | 27.5             | 2,000        | 6,400,000                               | 76TR3220(1)30(2)      | R76TR3220(1)30(2)  |
| 1,600 | 650 | 0.27                   | 18.0             | 33.0   | 32.0   | 27.5             | 2,000        | 6,400,000                               | 76TR3270(1)30(2)      | R76TR3270(1)30(2)  |
| 1,600 | 650 | 0.33                   | 18.0             | 33.0   | 32.0   | 27.5             | 2,000        | 6,400,000                               | 76TR3330(1)30(2)      | R76TR3330(1)30(2)  |
| 1,600 | 650 | 0.39                   | 22.0             | 37.0   | 32.0   | 27.5             | 2,000        | 6,400,000                               | 76TR3390(1)30(2)      | R76TR3390(1)30(2)  |
| 1,600 | 650 | 0.47                   | 22.0             | 37.0   | 32.0   | 27.5             | 2,000        | 6,400,000                               | 76TR3470(1)30(2)      | R76TR3470(1)30(2)  |
| 1,600 | 650 | 0.082                  | 11.0             | 22.0   | 41.5   | 37.5             | 1,200        | 3,840,000                               | 76TW2820(1)30(2)      | R76TW2820(1)30(2)  |
| 1,600 | 650 | 0.10                   | 11.0             | 22.0   | 41.5   | 37.5             | 1,200        | 3,840,000                               | 76TW3100(1)30(2)      | R76TW3100(1)30(2)  |
| 1,600 | 650 | 0.12                   | 11.0             | 22.0   | 41.5   | 37.5             | 1,200        | 3,840,000                               | 76TW3120(1)30(2)      | R76TW3120(1)30(2)  |
| 1,600 | 650 | 0.15                   | 11.0             | 22.0   | 41.5   | 37.5             | 1,200        | 3,840,000                               | 76TW3150(1)30(2)      | R76TW3150(1)30(2)  |
| 1,600 | 650 | 0.18                   | 13.0             | 24.0   | 41.5   | 37.5             | 1,200        | 3,840,000                               | 76TW3180(1)30(2)      | R76TW3180(1)30(2)  |
| 1,600 | 650 | 0.22                   | 13.0             | 24.0   | 41.5   | 37.5             | 1,200        | 3,840,000                               | 76TW3220(1)30(2)      | R76TW3220(1)30(2)  |
| 1,600 | 650 | 0.27                   | 13.0             | 24.0   | 41.5   | 37.5             | 1,200        | 3,840,000                               | 76TW3270(1)30(2)      | R76TW3270(1)30(2)  |
| 1,600 | 650 | 0.33                   | 16.0             | 28.5   | 41.5   | 37.5             | 1,200        | 3,840,000                               | 76TW3330(1)30(2)      | R76TW3330(1)30(2)  |
| 1,600 | 650 | 0.39                   | 16.0             | 28.5   | 41.5   | 37.5             | 1,200        | 3,840,000                               | 76TW3390(1)30(2)      | R76TW3390(1)30(2)  |
| 1,600 | 650 | 0.47                   | 19.0             | 32.0   | 41.5   | 37.5             | 1,200        | 3,840,000                               | 76TW3470(1)30(2)      | R76TW3470(1)30(2)  |
| 1,600 | 650 | 0.56                   | 20.0             | 40.0   | 41.5   | 37.5             | 1,200        | 3,840,000                               | 76TW3560(1)30(2)      | R76TW3560(1)30(2)  |
| 1,600 | 650 | 0.68                   | 20.0             | 40.0   | 41.5   | 37.5             | 1,200        | 3,840,000                               | 76TW3680(1)30(2)      | R76TW3680(1)30(2)  |
| 1,600 | 650 | 0.82                   | 24.0             | 44.0   | 41.5   | 37.5             | 1,200        | 3,840,000                               | 76TW3820(1)30(2)      | R76TW3820(1)30(2)  |
| VDC   | VAC | Capacitance Value (µF) | B (mm)           | H (mm) | L (mm) | Lead Spacing (p) | dV/dt (V/µs) | Max K <sub>0</sub> (V <sup>2</sup> /µs) | New KEMET Part Number | Legacy Part Number |

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

(2) H = 2.5%, J = 5%, K = 10%

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

| VDC   | VAC | Capacitance Value (µF) | Dimensions in mm |        |        | Lead Spacing (p) | dV/dt (V/µs) | Max K <sub>0</sub> (V <sup>2</sup> /µs) | New KEMET Part Number | Legacy Part Number |
|-------|-----|------------------------|------------------|--------|--------|------------------|--------------|-----------------------------------------|-----------------------|--------------------|
|       |     |                        | B                | H      | L      |                  |              |                                         |                       |                    |
| 1,600 | 650 | 1.0                    | 24.0             | 44.0   | 41.5   | 37.5             | 1,200        | 3,840,000                               | 76TW4100(1)30(2)      | R76TW4100(1)30(2)  |
| 1,600 | 650 | 1.2                    | 30.0             | 45.0   | 41.5   | 37.5             | 1,200        | 3,840,000                               | 76TW4120(1)30(2)      | R76TW4120(1)30(2)  |
| 2,000 | 700 | 0.00010                | 4.0              | 10.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI0100(1)40(2)      | R76UI0100(1)40(2)  |
| 2,000 | 700 | 0.00012                | 4.0              | 10.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI0120(1)40(2)      | R76UI0120(1)40(2)  |
| 2,000 | 700 | 0.00015                | 4.0              | 10.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI0150(1)40(2)      | R76UI0150(1)40(2)  |
| 2,000 | 700 | 0.00018                | 4.0              | 10.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI0180(1)40(2)      | R76UI0180(1)40(2)  |
| 2,000 | 700 | 0.00022                | 4.0              | 10.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI0220(1)40(2)      | R76UI0220(1)40(2)  |
| 2,000 | 700 | 0.00022                | 5.0              | 11.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI0220(1)00(2)      | R76UI0220(1)00(2)  |
| 2,000 | 700 | 0.00027                | 4.0              | 10.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI0270(1)40(2)      | R76UI0270(1)40(2)  |
| 2,000 | 700 | 0.00027                | 5.0              | 11.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI0270(1)00(2)      | R76UI0270(1)00(2)  |
| 2,000 | 700 | 0.00033                | 4.0              | 10.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI0330(1)40(2)      | R76UI0330(1)40(2)  |
| 2,000 | 700 | 0.00033                | 5.0              | 11.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI0330(1)00(2)      | R76UI0330(1)00(2)  |
| 2,000 | 700 | 0.00039                | 4.0              | 10.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI0390(1)40(2)      | R76UI0390(1)40(2)  |
| 2,000 | 700 | 0.00039                | 5.0              | 11.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI0390(1)00(2)      | R76UI0390(1)00(2)  |
| 2,000 | 700 | 0.00047                | 4.0              | 10.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI0470(1)40(2)      | R76UI0470(1)40(2)  |
| 2,000 | 700 | 0.00047                | 5.0              | 11.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI0470(1)00(2)      | R76UI0470(1)00(2)  |
| 2,000 | 700 | 0.00056                | 4.0              | 10.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI0560(1)40(2)      | R76UI0560(1)40(2)  |
| 2,000 | 700 | 0.00056                | 5.0              | 11.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI0560(1)00(2)      | R76UI0560(1)00(2)  |
| 2,000 | 700 | 0.00068                | 4.0              | 10.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI0680(1)40(2)      | R76UI0680(1)40(2)  |
| 2,000 | 700 | 0.00068                | 5.0              | 11.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI0680(1)00(2)      | R76UI0680(1)00(2)  |
| 2,000 | 700 | 0.00082                | 4.0              | 10.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI0820(1)40(2)      | R76UI0820(1)40(2)  |
| 2,000 | 700 | 0.00082                | 5.0              | 11.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI0820(1)00(2)      | R76UI0820(1)00(2)  |
| 2,000 | 700 | 0.0010                 | 4.0              | 10.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI1100(1)40(2)      | R76UI1100(1)40(2)  |
| 2,000 | 700 | 0.0010                 | 5.0              | 11.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI1100(1)30(2)      | R76UI1100(1)30(2)  |
| 2,000 | 700 | 0.0012                 | 4.0              | 10.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI1120(1)40(2)      | R76UI1120(1)40(2)  |
| 2,000 | 700 | 0.0012                 | 5.0              | 11.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI1120(1)30(2)      | R76UI1120(1)30(2)  |
| 2,000 | 700 | 0.0015                 | 4.0              | 10.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI1150(1)40(2)      | R76UI1150(1)40(2)  |
| 2,000 | 700 | 0.0015                 | 5.0              | 11.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI1150(1)30(2)      | R76UI1150(1)30(2)  |
| 2,000 | 700 | 0.0018                 | 4.0              | 10.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI1180(1)40(2)      | R76UI1180(1)40(2)  |
| 2,000 | 700 | 0.0018                 | 5.0              | 11.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI1180(1)30(2)      | R76UI1180(1)30(2)  |
| 2,000 | 700 | 0.0022                 | 4.0              | 10.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI1220(1)40(2)      | R76UI1220(1)40(2)  |
| 2,000 | 700 | 0.0022                 | 5.0              | 11.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI1220(1)30(2)      | R76UI1220(1)30(2)  |
| 2,000 | 700 | 0.0027                 | 4.0              | 10.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI1270(1)40(2)      | R76UI1270(1)40(2)  |
| 2,000 | 700 | 0.0027                 | 5.0              | 11.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI1270(1)30(2)      | R76UI1270(1)30(2)  |
| 2,000 | 700 | 0.0033                 | 5.0              | 11.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI1330(1)40(2)      | R76UI1330(1)40(2)  |
| 2,000 | 700 | 0.0039                 | 5.0              | 11.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI1390(1)40(2)      | R76UI1390(1)40(2)  |
| 2,000 | 700 | 0.0047                 | 5.0              | 11.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI1470(1)40(2)      | R76UI1470(1)40(2)  |
| 2,000 | 700 | 0.0056                 | 6.0              | 12.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI1560(1)40(2)      | R76UI1560(1)40(2)  |
| 2,000 | 700 | 0.0068                 | 6.0              | 12.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI1680(1)40(2)      | R76UI1680(1)40(2)  |
| 2,000 | 700 | 0.0082                 | 6.0              | 12.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI1820(1)40(2)      | R76UI1820(1)40(2)  |
| 2,000 | 700 | 0.010                  | 7.5              | 13.5   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI2100(1)40(2)      | R76UI2100(1)40(2)  |
| 2,000 | 700 | 0.010                  | 13.0             | 12.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI2100(1)70(2)      | R76UI2100(1)70(2)  |
| 2,000 | 700 | 0.012                  | 8.5              | 14.5   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI2120(1)40(2)      | R76UI2120(1)40(2)  |
| 2,000 | 700 | 0.015                  | 8.5              | 14.5   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 76UI2150(1)40(2)      | R76UI2150(1)40(2)  |
| 2,000 | 700 | 0.0010                 | 6.0              | 15.0   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 76UN1100(1)00(2)      | R76UN1100(1)00(2)  |
| 2,000 | 700 | 0.0012                 | 6.0              | 15.0   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 76UN1120(1)00(2)      | R76UN1120(1)00(2)  |
| 2,000 | 700 | 0.0015                 | 6.0              | 15.0   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 76UN1150(1)00(2)      | R76UN1150(1)00(2)  |
| 2,000 | 700 | 0.0018                 | 6.0              | 15.0   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 76UN1180(1)00(2)      | R76UN1180(1)00(2)  |
| 2,000 | 700 | 0.0022                 | 6.0              | 15.0   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 76UN1220(1)00(2)      | R76UN1220(1)00(2)  |
| 2,000 | 700 | 0.0027                 | 6.0              | 15.0   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 76UN1270(1)00(2)      | R76UN1270(1)00(2)  |
| 2,000 | 700 | 0.0033                 | 6.0              | 15.0   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 76UN1330(1)00(2)      | R76UN1330(1)00(2)  |
| 2,000 | 700 | 0.0039                 | 6.0              | 15.0   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 76UN1390(1)00(2)      | R76UN1390(1)00(2)  |
| 2,000 | 700 | 0.0047                 | 6.0              | 15.0   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 76UN1470(1)00(2)      | R76UN1470(1)00(2)  |
| 2,000 | 700 | 0.0056                 | 6.0              | 15.0   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 76UN1560(1)00(2)      | R76UN1560(1)00(2)  |
| 2,000 | 700 | 0.0068                 | 6.0              | 15.0   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 76UN1680(1)00(2)      | R76UN1680(1)00(2)  |
| 2,000 | 700 | 0.0082                 | 6.0              | 15.0   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 76UN1820(1)30(2)      | R76UN1820(1)30(2)  |
| 2,000 | 700 | 0.010                  | 6.0              | 15.0   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 76UN2100(1)30(2)      | R76UN2100(1)30(2)  |
| 2,000 | 700 | 0.012                  | 6.0              | 15.0   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 76UN2120(1)30(2)      | R76UN2120(1)30(2)  |
| 2,000 | 700 | 0.015                  | 6.0              | 15.0   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 76UN2150(1)40(2)      | R76UN2150(1)40(2)  |
| 2,000 | 700 | 0.018                  | 6.0              | 15.0   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 76UN2180(1)40(2)      | R76UN2180(1)40(2)  |
| VDC   | VAC | Capacitance Value (µF) | B (mm)           | H (mm) | L (mm) | Lead Spacing (p) | dV/dt (V/µs) | Max K <sub>0</sub> (V <sup>2</sup> /µs) | New KEMET Part Number | Legacy Part Number |

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

(2) H = 2.5%, J = 5%, K = 10%

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

| VDC   | VAC | Capacitance Value (μF) | Dimensions in mm |        |        | Lead Spacing (p) | dV/dt (V/μs) | Max K <sub>0</sub> (V <sup>2</sup> /μs) | New KEMET Part Number | Legacy Part Number |
|-------|-----|------------------------|------------------|--------|--------|------------------|--------------|-----------------------------------------|-----------------------|--------------------|
|       |     |                        | B                | H      | L      |                  |              |                                         |                       |                    |
| 2,000 | 700 | 0.022                  | 7.0              | 16.0   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 76UN2220(1)40(2)      | R76UN2220(1)40(2)  |
| 2,000 | 700 | 0.027                  | 7.0              | 16.0   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 76UN2270(1)40(2)      | R76UN2270(1)40(2)  |
| 2,000 | 700 | 0.033                  | 8.5              | 17.0   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 76UN2330(1)40(2)      | R76UN2330(1)40(2)  |
| 2,000 | 700 | 0.039                  | 10.0             | 18.5   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 76UN2390(1)40(2)      | R76UN2390(1)40(2)  |
| 2,000 | 700 | 0.047                  | 10.0             | 18.5   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 76UN2470(1)40(2)      | R76UN2470(1)40(2)  |
| 2,000 | 700 | 0.056                  | 11.0             | 20.0   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 76UN2560(1)40(2)      | R76UN2560(1)40(2)  |
| 2,000 | 700 | 0.022                  | 9.0              | 17.0   | 32.0   | 27.5             | 2,300        | 9,200,000                               | 76UR2220(1)30(2)      | R76UR2220(1)30(2)  |
| 2,000 | 700 | 0.027                  | 9.0              | 17.0   | 32.0   | 27.5             | 2,300        | 9,200,000                               | 76UR2270(1)30(2)      | R76UR2270(1)30(2)  |
| 2,000 | 700 | 0.033                  | 9.0              | 17.0   | 32.0   | 27.5             | 2,300        | 9,200,000                               | 76UR2330(1)30(2)      | R76UR2330(1)30(2)  |
| 2,000 | 700 | 0.039                  | 9.0              | 17.0   | 32.0   | 27.5             | 2,300        | 9,200,000                               | 76UR2390(1)40(2)      | R76UR2390(1)40(2)  |
| 2,000 | 700 | 0.047                  | 11.0             | 20.0   | 32.0   | 27.5             | 2,300        | 9,200,000                               | 76UR2470(1)30(2)      | R76UR2470(1)30(2)  |
| 2,000 | 700 | 0.056                  | 13.0             | 22.0   | 32.0   | 27.5             | 2,300        | 9,200,000                               | 76UR2560(1)30(2)      | R76UR2560(1)30(2)  |
| 2,000 | 700 | 0.068                  | 13.0             | 22.0   | 32.0   | 27.5             | 2,300        | 9,200,000                               | 76UR2680(1)30(2)      | R76UR2680(1)30(2)  |
| 2,000 | 700 | 0.082                  | 13.0             | 25.0   | 32.0   | 27.5             | 2,300        | 9,200,000                               | 76UR2820(1)40(2)      | R76UR2820(1)40(2)  |
| 2,000 | 700 | 0.10                   | 14.0             | 28.0   | 32.0   | 27.5             | 2,300        | 9,200,000                               | 76UR3100(1)30(2)      | R76UR3100(1)30(2)  |
| 2,000 | 700 | 0.12                   | 18.0             | 33.0   | 32.0   | 27.5             | 2,300        | 9,200,000                               | 76UR3120(1)30(2)      | R76UR3120(1)30(2)  |
| 2,000 | 700 | 0.15                   | 18.0             | 33.0   | 32.0   | 27.5             | 2,300        | 9,200,000                               | 76UR3150(1)30(2)      | R76UR3150(1)30(2)  |
| 2,000 | 700 | 0.18                   | 22.0             | 37.0   | 32.0   | 27.5             | 2,300        | 9,200,000                               | 76UR3180(1)30(2)      | R76UR3180(1)30(2)  |
| 2,000 | 700 | 0.22                   | 22.0             | 37.0   | 32.0   | 27.5             | 2,300        | 9,200,000                               | 76UR3220(1)30(2)      | R76UR3220(1)30(2)  |
| 2,000 | 700 | 0.033                  | 11.0             | 22.0   | 41.5   | 37.5             | 1,500        | 6,000,000                               | 76UW2330(1)30(2)      | R76UW2330(1)30(2)  |
| 2,000 | 700 | 0.039                  | 11.0             | 22.0   | 41.5   | 37.5             | 1,500        | 6,000,000                               | 76UW2390(1)30(2)      | R76UW2390(1)30(2)  |
| 2,000 | 700 | 0.047                  | 11.0             | 22.0   | 41.5   | 37.5             | 1,500        | 6,000,000                               | 76UW2470(1)30(2)      | R76UW2470(1)30(2)  |
| 2,000 | 700 | 0.056                  | 11.0             | 22.0   | 41.5   | 37.5             | 1,500        | 6,000,000                               | 76UW2560(1)30(2)      | R76UW2560(1)30(2)  |
| 2,000 | 700 | 0.068                  | 11.0             | 22.0   | 41.5   | 37.5             | 1,500        | 6,000,000                               | 76UW2680(1)30(2)      | R76UW2680(1)30(2)  |
| 2,000 | 700 | 0.082                  | 11.0             | 22.0   | 41.5   | 37.5             | 1,500        | 6,000,000                               | 76UW2820(1)30(2)      | R76UW2820(1)30(2)  |
| 2,000 | 700 | 0.10                   | 13.0             | 24.0   | 41.5   | 37.5             | 1,500        | 6,000,000                               | 76UW3100(1)30(2)      | R76UW3100(1)30(2)  |
| 2,000 | 700 | 0.12                   | 13.0             | 24.0   | 41.5   | 37.5             | 1,500        | 6,000,000                               | 76UW3120(1)30(2)      | R76UW3120(1)30(2)  |
| 2,000 | 700 | 0.15                   | 16.0             | 28.5   | 41.5   | 37.5             | 1,500        | 6,000,000                               | 76UW3150(1)30(2)      | R76UW3150(1)30(2)  |
| 2,000 | 700 | 0.18                   | 16.0             | 28.5   | 41.5   | 37.5             | 1,500        | 6,000,000                               | 76UW3180(1)30(2)      | R76UW3180(1)30(2)  |
| 2,000 | 700 | 0.22                   | 19.0             | 32.0   | 41.5   | 37.5             | 1,500        | 6,000,000                               | 76UW3220(1)30(2)      | R76UW3220(1)30(2)  |
| 2,000 | 700 | 0.27                   | 20.0             | 40.0   | 41.5   | 37.5             | 1,500        | 6,000,000                               | 76UW3270(1)30(2)      | R76UW3270(1)30(2)  |
| 2,000 | 700 | 0.33                   | 20.0             | 40.0   | 41.5   | 37.5             | 1,500        | 6,000,000                               | 76UW3330(1)30(2)      | R76UW3330(1)30(2)  |
| 2,000 | 700 | 0.39                   | 24.0             | 44.0   | 41.5   | 37.5             | 1,500        | 6,000,000                               | 76UW3390(1)30(2)      | R76UW3390(1)30(2)  |
| 2,000 | 700 | 0.47                   | 24.0             | 44.0   | 41.5   | 37.5             | 1,500        | 6,000,000                               | 76UW3470(1)30(2)      | R76UW3470(1)30(2)  |
| 2,000 | 700 | 0.56                   | 30.0             | 45.0   | 41.5   | 37.5             | 1,500        | 6,000,000                               | 76UW3560(1)30(2)      | R76UW3560(1)30(2)  |
| 2,000 | 700 | 0.68                   | 30.0             | 45.0   | 41.5   | 37.5             | 1,500        | 6,000,000                               | 76UW3680(1)30(2)      | R76UW3680(1)30(2)  |
| VDC   | VAC | Capacitance Value (μF) | B (mm)           | H (mm) | L (mm) | Lead Spacing (p) | dV/dt (V/μs) | Max K <sub>0</sub> (V <sup>2</sup> /μs) | New KEMET Part Number | Legacy Part Number |

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

(2) H = 2.5%, J = 5%, K = 10%

## Soldering Process

The implementation of the RoHS directive has resulted in the selection of SnAgCu (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 mm to 15 mm), and great care has to be taken during soldering. The recommended solder profiles from KEMET should be used. Please consult KEMET with any questions. 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.

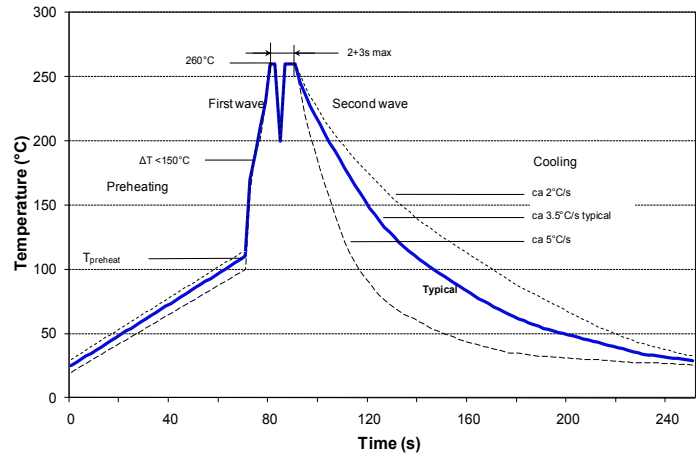
Reflow soldering is not recommended for through-hole film capacitors. Exposing capacitors to a soldering profile in excess of the above the recommended limits may result to degradation or permanent damage to the capacitors.

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.

**Figure 1**

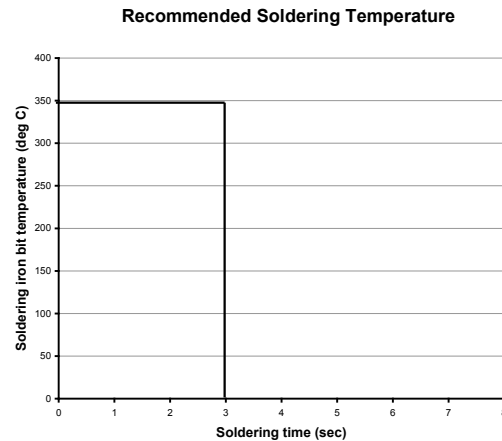
| Dielectric<br>Film Material | Maximum Preheat<br>Temperature         |                                         |                                        | Maximum<br>Peak Soldering<br>Temperature |                                        |
|-----------------------------|----------------------------------------|-----------------------------------------|----------------------------------------|------------------------------------------|----------------------------------------|
|                             | Capacitor<br>Lead<br>Spacing<br><10 mm | Capacitor<br>Lead<br>Spacing =<br>15 mm | Capacitor<br>Lead<br>Spacing<br>>15 mm | Capacitor<br>Lead<br>Spacing<br><15 mm   | Capacitor<br>Lead<br>Spacing<br>>15 mm |
| Polyester                   | 130°C                                  | 130°C                                   | 130°C                                  | 270°C                                    | 270°C                                  |
| Polypropylene               | 100°C                                  | 110°C                                   | 130°C                                  | 260°C                                    | 270°C                                  |
| Polyphenylene<br>Sulphide   | 150°C                                  | 150°C                                   | 160°C                                  | 270°C                                    | 270°C                                  |

## Wave Soldering Recommendations



## Manual Soldering Recommendations

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



The soldering iron tip temperature should be set at 350°C (+10°C maximum) with the soldering duration not to exceed more than 3 seconds.

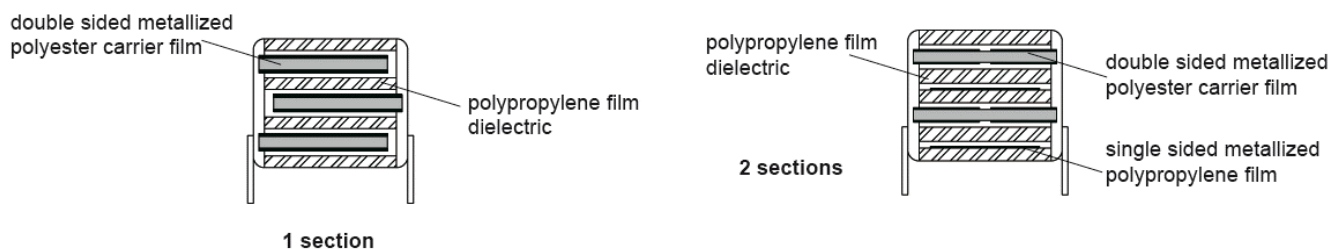
## Soldering Process cont'd

### 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 from 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



## Marking

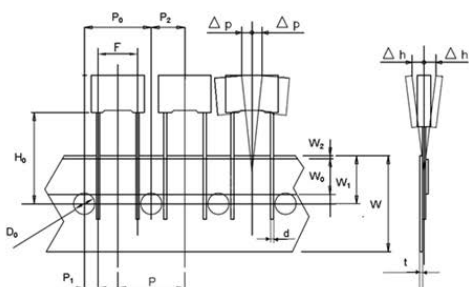
- KEMET's logo
- Series
- Dielectric code (MKP)
- Capacitance
- Capacitance tolerance
- Rated DC voltage
- Manufacturing date code

## Packaging Quantities

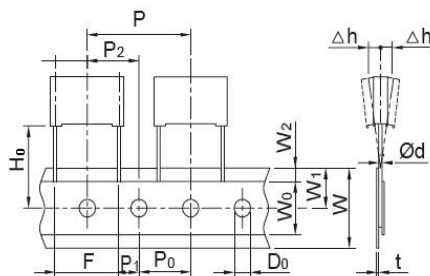
| Lead Spacing | Thickness (mm) | Height (mm) | Length (mm) | Bulk Short Leads | Bulk Long Leads | Standard Reel<br>ø 355 mm | Large Reel<br>ø 500 mm | Ammo Taped |
|--------------|----------------|-------------|-------------|------------------|-----------------|---------------------------|------------------------|------------|
| 7.5          | 3.0            | 8.0         | 10.0        | 1,500            | 1,750           | 2,100                     |                        | 2,800      |
|              | 4.0            | 9.0         | 10.0        | 2,000            | 1,500           | 1,500                     |                        | 2,100      |
|              | 5.0            | 10.5        | 10.0        | 1,500            | 1,000           | 1,200                     |                        | 1,600      |
|              | 6.0            | 12.0        | 10.5        | 1,000            | 800             | 1,000                     |                        | 1,350      |
| 10           | 4.0            | 9.0         | 13.0        | 2,000            | 1,800           | 750                       | 1,500                  | 1,000      |
|              | 5.0            | 11.0        | 13.0        | 1,300            | 1,500           | 600                       | 1,250                  | 800        |
|              | 6.0            | 12.0        | 13.0        | 1,000            | 1,200           | 500                       | 1,000                  | 680        |
| 15           | 4.0            | 10.0        | 18.0        | 2,500            | 1,500           | -                         | 1,500                  | 1,000      |
|              | 5.0            | 11.0        | 18.0        | 2,000            | 1,000           | 600                       | 1,250                  | 800        |
|              | 6.0            | 12.0        | 18.0        | 1,750            | 900             | 500                       | 1,000                  | 680        |
|              | 7.5            | 13.5        | 18.0        | 1,000            | 700             | 350                       | 800                    | 500        |
|              | 8.5            | 14.5        | 18.0        | 1,000            | 500             | 300                       | 700                    | 440        |
|              | 9.0            | 12.5        | 18.0        | 1,000            | 520             | 270                       | 650                    | 410        |
|              | 10.0           | 16.0        | 18.0        | 750              | 500             | 300                       | 600                    | 380        |
|              | 11.0           | 19.0        | 18.0        | 450              | 350             | -                         | 500                    | 340        |
|              | 13.0           | 12.0        | 18.0        | 750              | 490             | 200                       | 480                    | 280        |
| 22.5         | 6.0            | 15.0        | 26.5        | 805              | 500             |                           | 700                    | 464        |
|              | 7.0            | 16.0        | 26.5        | 700              | 500             |                           | 550                    | 380        |
|              | 8.5            | 17.0        | 26.5        | 468              | 300             |                           | 450                    | 280        |
|              | 10.0           | 18.5        | 26.5        | 396              | 300             |                           | 350                    | 235        |
|              | 11.0           | 20.0        | 26.5        | 360              | 250             |                           | 350                    | 217        |
|              | 13.0           | 22.0        | 26.5        | 300              | 200             |                           | 300                    | -          |
| 27.5         | 9.0            | 17.0        | 32.0        | 816              | 408             |                           | 450                    |            |
|              | 11.0           | 20.0        | 32.0        | 560              | 336             |                           | 350                    |            |
|              | 13.0           | 22.0        | 32.0        | 480              | 288             |                           | 300                    |            |
|              | 13.0           | 25.0        | 32.0        | 480              | 288             |                           |                        |            |
|              | 14.0           | 28.0        | 32.0        | 352              | 176             |                           |                        |            |
|              | 18.0           | 33.0        | 32.0        | 256              | 128             |                           |                        |            |
|              | 22.0           | 37.0        | 32.0        | 168              | 112             |                           |                        |            |
| 37.5         | 11.0           | 22.0        | 41.5        | 420              | 252             |                           |                        |            |
|              | 13.0           | 24.0        | 41.5        | 360              | 216             |                           |                        |            |
|              | 16.0           | 28.5        | 41.5        | 216              | 108             |                           |                        |            |
|              | 19.0           | 32.0        | 41.5        | 192              | 96              |                           |                        |            |
|              | 20.0           | 40.0        | 41.5        | 126              | 84              |                           |                        |            |
|              | 24.0           | 44.0        | 41.5        | 108              | 72              |                           |                        |            |
|              | 30.0           | 45.0        | 41.5        | 90               | 60              |                           |                        |            |

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

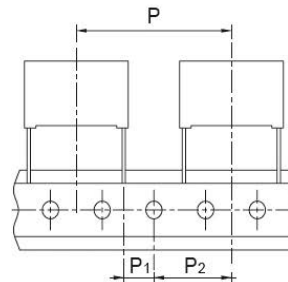
Lead Spacing 7.5 mm



Lead Spacing 10 & 15 mm



Lead Spacing 22.5 & 27.5



## Taping Specification

| Description                          | Symbol              | Dimensions (mm) |      |           |       |       |           |
|--------------------------------------|---------------------|-----------------|------|-----------|-------|-------|-----------|
|                                      |                     | Lead Spacing    |      |           |       |       | Tolerance |
|                                      |                     | 7.5             | 10.0 | 15.0      | 22.5  | 27.5  |           |
| Lead wire diameter                   | d                   | 0.5 - 0.6       | 0.6  | 0.6 - 0.8 | 0.8   | 0.8   | ±0.05     |
| Taping lead space                    | P                   | 12.7            | 25.4 | 25.4      | 38.1  | 38.1  | ±1        |
| Feed hole lead space *               | P <sub>0</sub>      | 12.7            | 12.7 | 12.7      | 12.7  | 12.7  | ±0.2 **   |
| Centering of the lead wire           | P <sub>1</sub>      | 2.6             | 7.7  | 5.2       | 7.8   | 5.3   | ±0.7      |
| Centering of the body                | P <sub>2</sub>      | 6.35            | 12.7 | 12.7      | 19.05 | 19.05 | ±1.3      |
| Lead spacing ***                     | F                   | 7.5             | 10.0 | 15.0      | 22.5  | 27.5  | +0.6/-0.1 |
| Component alignment                  | Δh                  | 0               | 0    | 0         | 0     | 0     | ±2        |
| Component deviation                  | Δp                  | 0               | 0    | 0         | 0     | 0     | ±1        |
| Height of component from tape center | H <sub>0</sub> **** | 18.5            | 18.5 | 18.5      | 18.5  | 18.5  | ±0.5      |
| Carrier tape width                   | W                   | 18              | 18   | 18        | 18    | 18    | +1/-0.5   |
| Hold down tape width                 | W <sub>0</sub>      | 6               | 9    | 10        | 10    | 10    | Minimum   |
| Hole position                        | W <sub>1</sub>      | 9               | 9    | 9         | 9     | 9     | ±0.5      |
| Hold down tape position              | W <sub>2</sub>      | 3               | 3    | 3         | 3     | 3     | Maximum   |
| Feed hole diameter                   | D <sub>0</sub>      | 4               | 4    | 4         | 4     | 4     | ±0.2      |
| Tape thickness                       | t                   | 0.7             | 0.7  | 0.7       | 0.7   | 0.7   | ±0.2      |

\* Available also 15 mm.

\*\* Maximum 1 mm on 20 lead spacing.

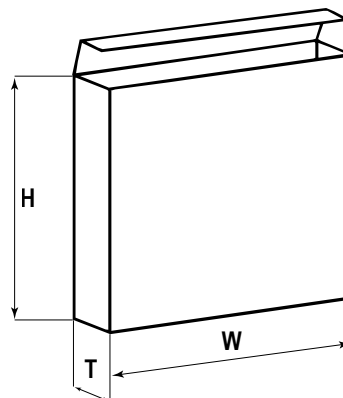
\*\*\* 15 mm and 10 mm taped to 7.5 mm (crimped leads) available upon request.

\*\*\*\* H<sub>0</sub> = 16.5 mm is available upon request.

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

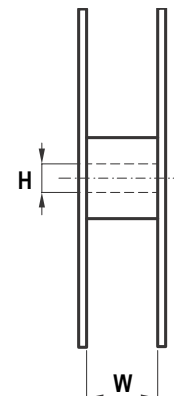
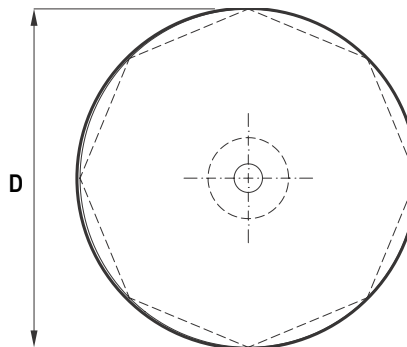
### Ammo Specifications

| Dimensions (mm) |     |    |
|-----------------|-----|----|
| H               | W   | T  |
| 360             | 340 | 59 |



### Reel Specifications

| Dimensions (mm) |          |            |
|-----------------|----------|------------|
| D               | H        | W          |
| 355<br>500      | 30<br>25 | 55 Maximum |



### Manufacturing Date Code (IEC–60062)

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

## **KEMET Corporation World Headquarters**

2835 KEMET Way  
Simpsonville, SC 29681

Mailing Address:  
P.O. Box 5928  
Greenville, SC 29606

www.kemet.com  
Tel: 864-963-6300  
Fax: 864-963-6521

**Corporate Offices**  
Fort Lauderdale, FL  
Tel: 954-766-2800

## **North America**

**Southeast**  
Lake Mary, FL  
Tel: 407-855-8886

**Northeast**  
Wilmington, MA  
Tel: 978-658-1663

**Central**  
Novi, MI  
Tel: 248-306-9353

**West**  
Milpitas, CA  
Tel: 408-433-9950

**Mexico**  
Guadalajara, Jalisco  
Tel: 52-33-3123-2141

## **Europe**

**Southern Europe**  
Paris, France  
Tel: 33-1-4646-1006

Sasso Marconi, Italy  
Tel: 39-051-939111

**Central Europe**  
Landsberg, Germany  
Tel: 49-8191-3350800

Kamen, Germany  
Tel: 49-2307-438110

**Northern Europe**  
Bishop's Stortford, United Kingdom  
Tel: 44-1279-460122

Espoo, Finland  
Tel: 358-9-5406-5000

## **Asia**

**Northeast Asia**  
Hong Kong  
Tel: 852-2305-1168

Shenzhen, China  
Tel: 86-755-2518-1306

Beijing, China  
Tel: 86-10-5829-1711

Shanghai, China  
Tel: 86-21-6447-0707

Taipei, Taiwan  
Tel: 886-2-27528585

**Southeast Asia**  
Singapore  
Tel: 65-6586-1900

Penang, Malaysia  
Tel: 60-4-6430200

Bangalore, India  
Tel: 91-806-53-76817

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