

# R75 Series Single Metallized Polypropylene Film, Radial, DC and Pulse Applications (Automotive Grade)

## Overview

The R75 Series is constructed of metallized polypropylene film 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 and lead spacing. Please see the Performance Characteristics for more information.

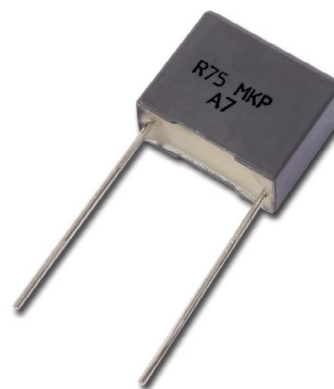
Automotive grade devices are available (up to lead spacing 22.5 mm) and meet the demanding Automotive Electronics Council's AEC-Q200 qualification requirements.

## Applications

Typical applications include deflection circuits in televisions (S-correction), resonant capacitor in electronic ballast and compact lamp, power factor correction and coupling capacitor in switched mode power supply (SMPS), timing and oscillator circuits. Not suitable for across-the-line application (see Suppressor Capacitors).

## Benefits

- Voltage range: 160 – 2,000 VDC
- Capacitance range: 220 pF – 33  $\mu$ F
- Lead Spacing: 7.5 – 37.5 mm
- Capacitance tolerance:  $\pm 5\%$ ,  $\pm 10\%$ ,  $\pm 20\%$
- Climatic category: 55/105/56 IEC 60068-1
- Operating temperature range of -55°C to +105°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

| R75                      | P                   | N                 | 2820                                                                                                                          | AA                         | 30           | K                     |
|--------------------------|---------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------|-----------------------|
| Series                   | Rated Voltage (VDC) | Lead Spacing (mm) | Capacitance Code (pF)                                                                                                         | Lead and Packaging Code    | Internal Use | Capacitance Tolerance |
| Metallized Polypropylene | G = 160             | D = 7.5           | Digits 2 – 4 indicate the first three digits of the capacitance value. First digit indicates the number of zeros to be added. | See Ordering Options Table | 00           | J = $\pm 5\%$         |
|                          | I = 250             | F = 10            |                                                                                                                               |                            | 10           | K = $\pm 10\%$        |
|                          | M = 400             | I = 15            |                                                                                                                               |                            | 30           | M = $\pm 20\%$        |
|                          | P = 630             | N = 22.5          |                                                                                                                               |                            | 40           |                       |
|                          | Q = 1,000           | R = 27.5          |                                                                                                                               |                            | 50           |                       |
|                          | R = 1,250           | W = 37.5          |                                                                                                                               |                            | 60           |                       |
|                          | T = 1,600           |                   |                                                                                                                               |                            | 70           |                       |
|                          | U = 2,000           |                   |                                                                                                                               |                            | 80           |                       |

## Ordering Options Table

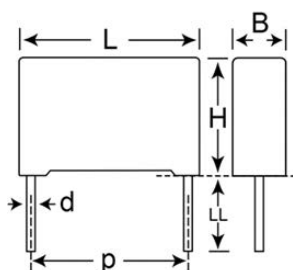
| Lead Spacing<br>Nominal (mm) | Type of Leads and Packaging                | Lead Length<br>(mm)           | Lead and<br>Packaging<br>Code |
|------------------------------|--------------------------------------------|-------------------------------|-------------------------------|
| 7.5                          | <b>Standard Lead and Packaging Options</b> |                               |                               |
|                              | Bulk (Bag) – Short Leads                   | 4 +2/-0                       | AA                            |
|                              | 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><br>15<br><br>22.5     | <b>Standard Lead and Packaging Options</b> |                               |                               |
|                              | Bulk (Bag) – Short Leads                   | 4 +2/-0                       | AA                            |
|                              | 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                       | AA                            |
|                              | <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

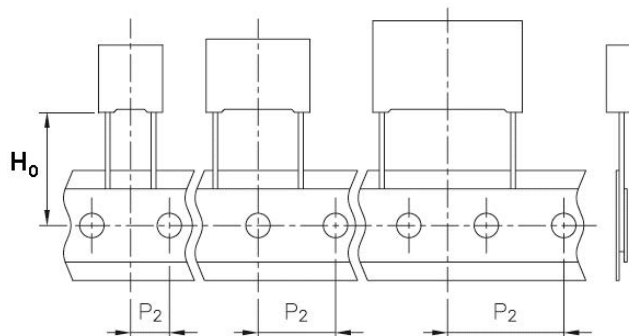
| Lead Spacing<br>Nominal (mm) | Type of Leads and Packaging                | Lead Length<br>(mm) | Lead and<br>Packaging<br>Code |
|------------------------------|--------------------------------------------|---------------------|-------------------------------|
| 37.5                         | <b>Standard Lead and Packaging Options</b> |                     |                               |
|                              | Bulk (Tray) – Straight Leads               | 4 +2/-0             | AA                            |
|                              | <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

**Loose**



**Taped**

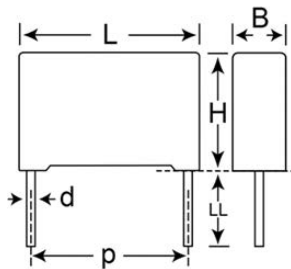


| p       |           | B       |           | H       |           | L       |           | d       |           |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Nominal | Tolerance | Nominal | Tolerance | Nominal | Tolerance | Nominal | Tolerance | Nominal | Tolerance |
| 7.5     | +/- 0.4   | 4.0     | +0.1      | 9.0     | +0.1      | 10.0    | +0.2      | 0.5     | +/- 0.05  |
| 7.5     | +/- 0.4   | 5.0     | +0.1      | 10.5    | +0.1      | 10.0    | +0.2      | 0.5     | +/- 0.05  |
| 7.5     | +/- 0.4   | 6.0     | +0.1      | 12.0    | +0.1      | 10.0    | +0.2      | 0.5     | +/- 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  |

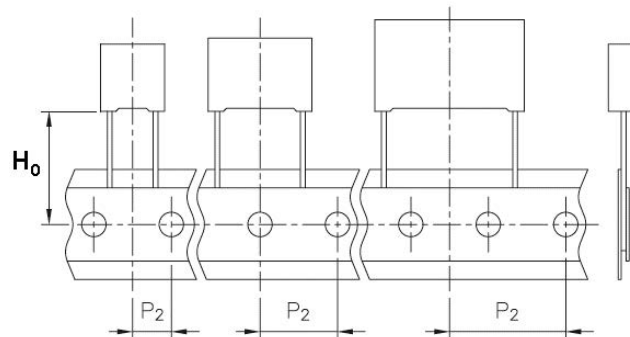
Note: See Ordering Options Table for lead length (LL/Ho) options.

## Dimensions – Millimeters

**Loose**



**Taped**



| p       |           | B       |           | H       |           | L       |           | d       |           |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Nominal | Tolerance | Nominal | Tolerance | Nominal | Tolerance | Nominal | Tolerance | Nominal | Tolerance |
| 15.0    | +/- 0.4   | 10.0    | +0.2      | 16.0    | +0.1      | 18.0    | +0.5      | 0.8     | +/- 0.05  |
| 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 Characteristics

|                                         |                                                                                                                                                                                                        |               |                 |                     |                  |                     |                 |                |                |                     |                 |                 |              |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------|---------------------|------------------|---------------------|-----------------|----------------|----------------|---------------------|-----------------|-----------------|--------------|
| Dielectric                              | Polypropylene film                                                                                                                                                                                     |               |                 |                     |                  |                     |                 |                |                |                     |                 |                 |              |
| Plates                                  | Metal layer deposited by evaporation under vacuum                                                                                                                                                      |               |                 |                     |                  |                     |                 |                |                |                     |                 |                 |              |
| 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                                                                                                                                                                                                      |               |                 |                     |                  |                     |                 |                |                | 3                   |                 |                 |              |
| Rated Voltage V <sub>R</sub> (VDC)      | 160                                                                                                                                                                                                    | 160           | 250             | 250                 | 400              | 400                 | 630             | 630            | 1000           | 1000                | 1250            | 1600            | 2000         |
| Rated Voltage V <sub>R</sub> (VAC)      | 70                                                                                                                                                                                                     | 90            | 140             | 160                 | 200              | 220                 | 220             | 250            | 250            | 400                 | 600             | 650             | 700          |
| Capacitance Range (μF)                  | 0.1<br>– 0.33                                                                                                                                                                                          | 0.068<br>– 33 | 0.068<br>– 0.22 | 0.027<br>– 33       | 0.027<br>– 0.068 | 0.01<br>– 15        | 0.01<br>– 0.027 | 0.001<br>– 8.2 | 0.012<br>– 3.9 | 0.00022<br>– 0.0082 | 0.0082<br>– 2.2 | 0.0039<br>– 1.5 | 0.001<br>– 1 |
| Capacitance Values                      | E12 series (IEC 60063) measured @ 1 kHz and +20 ±1°C                                                                                                                                                   |               |                 |                     |                  |                     |                 |                |                |                     |                 |                 |              |
| Capacitance Tolerance                   | ±5%, ±10%, ±20%                                                                                                                                                                                        |               |                 |                     |                  |                     |                 |                |                |                     |                 |                 |              |
| Operating Temperature Range             | -55°C to +105°C                                                                                                                                                                                        |               |                 |                     |                  |                     |                 |                |                |                     |                 |                 |              |
| Rated Temperature T <sub>R</sub>        | +85°C                                                                                                                                                                                                  |               |                 |                     |                  |                     |                 |                |                |                     |                 |                 |              |
| Voltage Derating                        | Above +85°C DC and AC voltage derating is 1.25%/°C                                                                                                                                                     |               |                 |                     |                  |                     |                 |                |                |                     |                 |                 |              |
| 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<br>(Lead Length ~ 2 mm) | Lead Spacing<br>(mm)                                                                                                                                                                                   | 7.5           |                 | 10                  |                  | 15                  |                 | 22.5           |                | 27.5                |                 | 37.5            |              |
|                                         | L (nH) ≈                                                                                                                                                                                               | 8             |                 | 9                   |                  | 10                  |                 | 18             |                | 18                  |                 | 20              |              |
|                                         | Maximum 1 nH per 1 mm lead and capacitor length.                                                                                                                                                       |               |                 |                     |                  |                     |                 |                |                |                     |                 |                 |              |
| Dissipation Factor tanδ                 | Maximum Values @ 25°C ±5°C                                                                                                                                                                             |               |                 |                     |                  |                     |                 |                |                |                     |                 |                 |              |
|                                         | Frequency                                                                                                                                                                                              | C ≤ 0.1 μF    |                 | 0.1 μF < C ≤ 1.0 μF |                  | 1.0 μF < C ≤ 4.7 μF |                 | C > 4.7 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

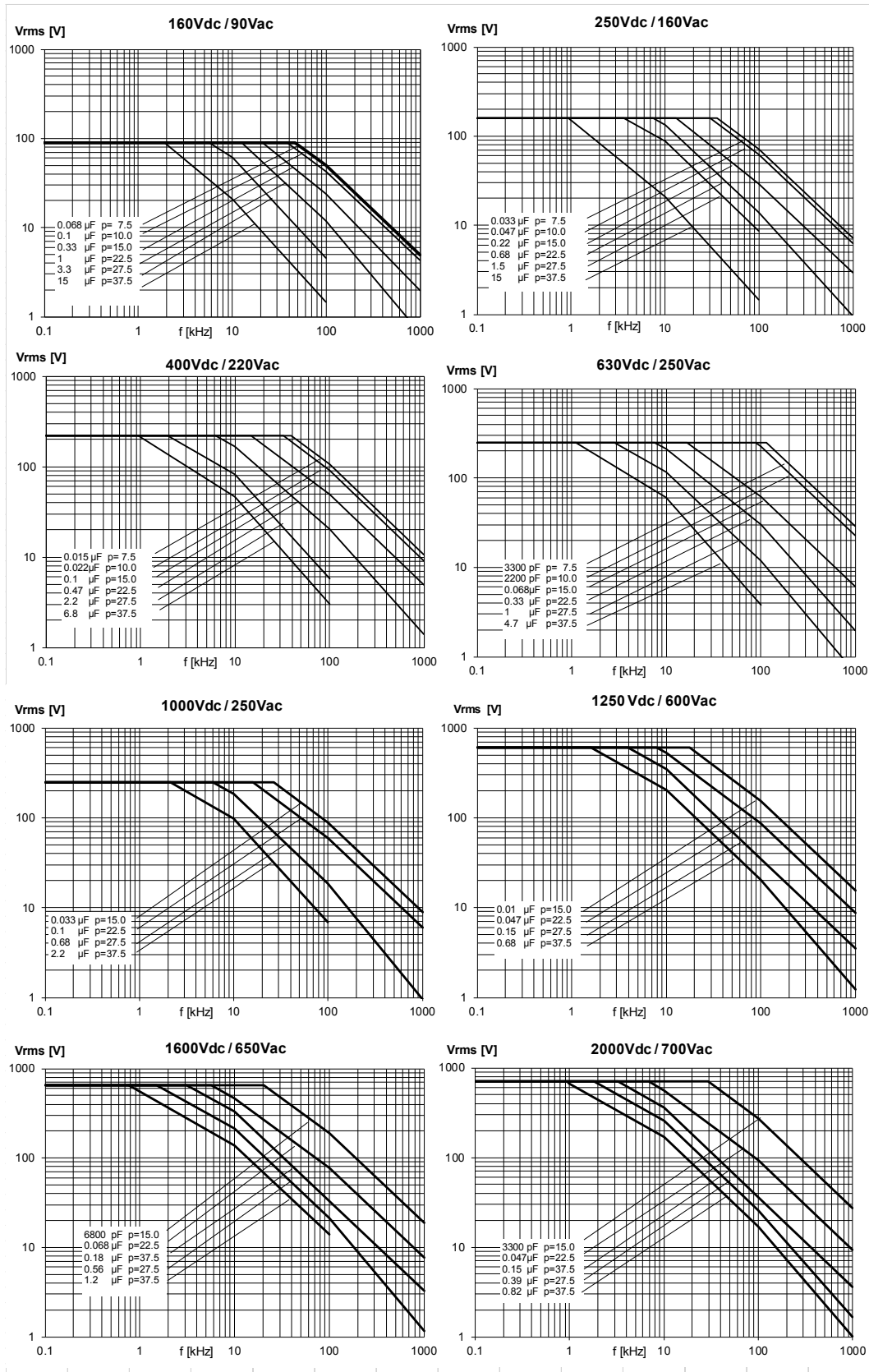
| Insulation Resistance | Measured @ +25°C ±5°C, 100 VDC 60 seconds |                                             |
|-----------------------|-------------------------------------------|---------------------------------------------|
|                       | Minimum Values Between Terminals          |                                             |
|                       | 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

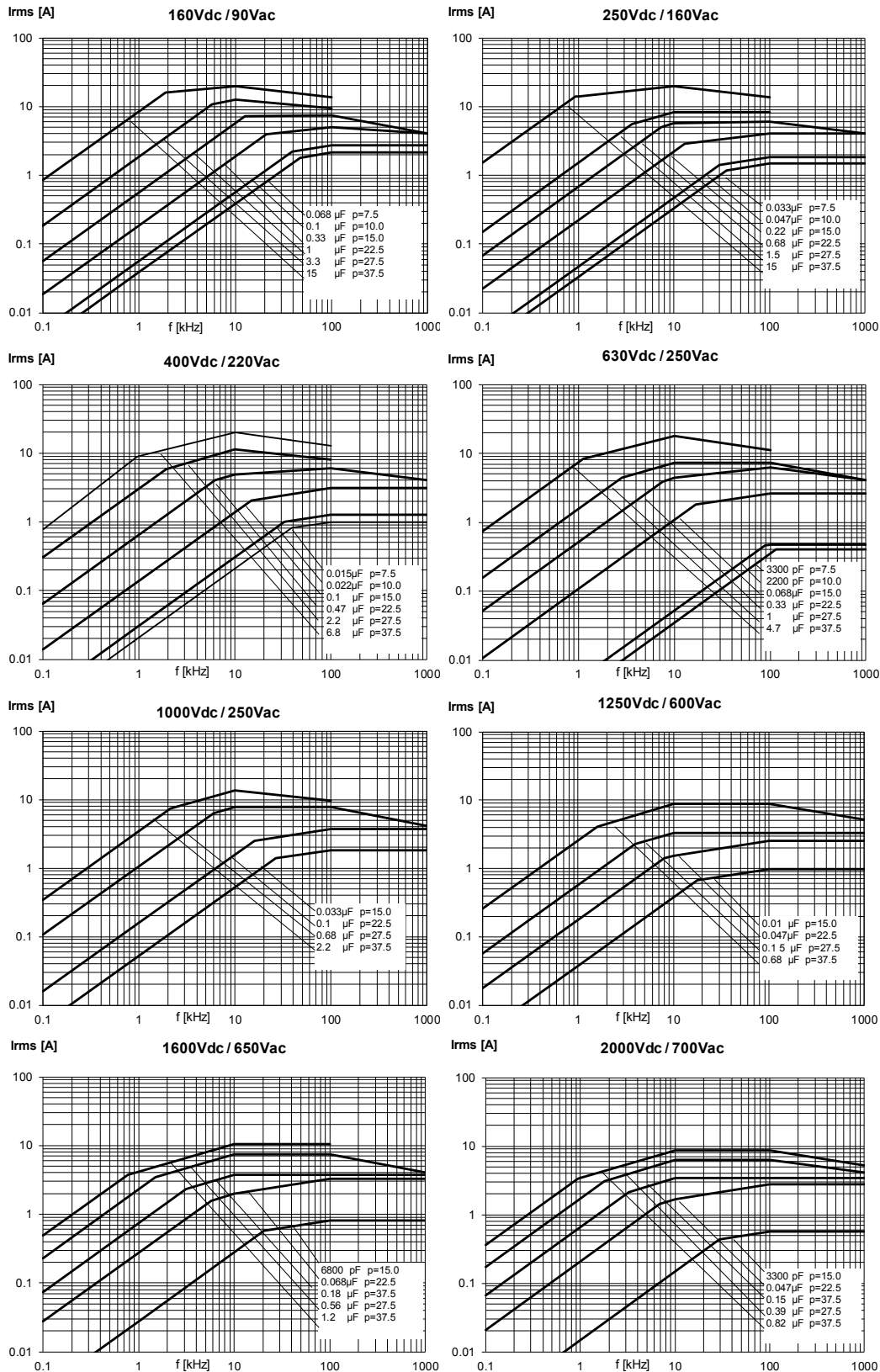
## Qualification

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/ $T_h \leq 40^\circ\text{C}$ )





## 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 $V_R$ (DC)<br>2,000 hours | $ \Delta C/C  \leq 3\%$ ,<br>$\Delta \tan \delta \leq 0.001$ @10 kHz for $C \leq 1\mu F$<br>$\Delta \tan \delta \leq 0.001$ @ 1 kHz for $C > 1\mu F$<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 $C \leq 1\mu F$<br>$\Delta \tan \delta \leq 0.001$ @ 1 kHz for $C > 1\mu F$<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      |                  |              |                                         |                       |                    |
| 160 | 70  | 0.10                   | 4.0              | 9.0    | 10.0   | 7.5              | 100          | 32,000                                  | 75GD3100(1)B0(2)      | R75GD3100(1)B0(2)  |
| 160 | 70  | 0.12                   | 5.0              | 10.5   | 10.0   | 7.5              | 100          | 32,000                                  | 75GD3120(1)B0(2)      | R75GD3120(1)B0(2)  |
| 160 | 70  | 0.15                   | 5.0              | 10.5   | 10.0   | 7.5              | 100          | 32,000                                  | 75GD3150(1)B0(2)      | R75GD3150(1)B0(2)  |
| 160 | 70  | 0.18                   | 6.0              | 12.0   | 10.5   | 7.5              | 100          | 32,000                                  | 75GD3180(1)A0(2)      | R75GD3180(1)A0(2)  |
| 160 | 70  | 0.22                   | 6.0              | 12.0   | 10.5   | 7.5              | 100          | 32,000                                  | 75GD3220(1)A0(2)      | R75GD3220(1)A0(2)  |
| 160 | 70  | 0.12                   | 4.0              | 9.0    | 13.0   | 10.0             | 90           | 28,800                                  | 75GF3120(1)A0(2)      | R75GF3120(1)A0(2)  |
| 160 | 70  | 0.15                   | 4.0              | 9.0    | 13.0   | 10.0             | 90           | 28,800                                  | 75GF3150(1)A0(2)      | R75GF3150(1)A0(2)  |
| 160 | 70  | 0.18                   | 5.0              | 11.0   | 13.0   | 10.0             | 90           | 28,800                                  | 75GF3180(1)A0(2)      | R75GF3180(1)A0(2)  |
| 160 | 70  | 0.22                   | 5.0              | 11.0   | 13.0   | 10.0             | 90           | 28,800                                  | 75GF3220(1)A0(2)      | R75GF3220(1)A0(2)  |
| 160 | 70  | 0.27                   | 6.0              | 12.0   | 13.0   | 10.0             | 90           | 28,800                                  | 75GF3270(1)A0(2)      | R75GF3270(1)A0(2)  |
| 160 | 70  | 0.33                   | 6.0              | 12.0   | 13.0   | 10.0             | 90           | 28,800                                  | 75GF3330(1)A0(2)      | R75GF3330(1)A0(2)  |
| 160 | 90  | 0.068                  | 4.0              | 9.0    | 10.0   | 7.5              | 300          | 96,000                                  | 75GD2680(1)40(2)      | R75GD2680(1)40(2)  |
| 160 | 90  | 0.082                  | 4.0              | 9.0    | 10.0   | 7.5              | 300          | 96,000                                  | 75GD2820(1)40(2)      | R75GD2820(1)40(2)  |
| 160 | 90  | 0.10                   | 5.0              | 10.5   | 10.0   | 7.5              | 300          | 96,000                                  | 75GD3100(1)40(2)      | R75GD3100(1)40(2)  |
| 160 | 90  | 0.12                   | 5.0              | 10.5   | 10.0   | 7.5              | 300          | 96,000                                  | 75GD3120(1)40(2)      | R75GD3120(1)40(2)  |
| 160 | 90  | 0.15                   | 6.0              | 12.0   | 10.5   | 7.5              | 300          | 96,000                                  | 75GD3150(1)00(2)      | R75GD3150(1)00(2)  |
| 160 | 90  | 0.18                   | 6.0              | 12.0   | 10.5   | 7.5              | 300          | 96,000                                  | 75GD3180(1)30(2)      | R75GD3180(1)30(2)  |
| 160 | 90  | 0.082                  | 4.0              | 9.0    | 13.0   | 10.0             | 180          | 57,600                                  | 75GF2820(1)00(2)      | R75GF2820(1)00(2)  |
| 160 | 90  | 0.10                   | 4.0              | 9.0    | 13.0   | 10.0             | 180          | 57,600                                  | 75GF3100(1)30(2)      | R75GF3100(1)30(2)  |
| 160 | 90  | 0.12                   | 5.0              | 11.0   | 13.0   | 10.0             | 180          | 57,600                                  | 75GF3120(1)00(2)      | R75GF3120(1)00(2)  |
| 160 | 90  | 0.15                   | 5.0              | 11.0   | 13.0   | 10.0             | 180          | 57,600                                  | 75GF3150(1)00(2)      | R75GF3150(1)00(2)  |
| 160 | 90  | 0.18                   | 6.0              | 12.0   | 13.0   | 10.0             | 180          | 57,600                                  | 75GF3180(1)00(2)      | R75GF3180(1)00(2)  |
| 160 | 90  | 0.22                   | 6.0              | 12.0   | 13.0   | 10.0             | 180          | 57,600                                  | 75GF3220(1)30(2)      | R75GF3220(1)30(2)  |
| 160 | 90  | 0.18                   | 5.0              | 11.0   | 18.0   | 15.0             | 100          | 32,000                                  | 75GI3180(1)00(2)      | R75GI3180(1)00(2)  |
| 160 | 90  | 0.22                   | 5.0              | 11.0   | 18.0   | 15.0             | 100          | 32,000                                  | 75GI3220(1)00(2)      | R75GI3220(1)00(2)  |
| 160 | 90  | 0.27                   | 6.0              | 12.0   | 18.0   | 15.0             | 100          | 32,000                                  | 75GI3270(1)00(2)      | R75GI3270(1)00(2)  |
| 160 | 90  | 0.33                   | 6.0              | 12.0   | 18.0   | 15.0             | 100          | 32,000                                  | 75GI3330(1)00(2)      | R75GI3330(1)00(2)  |
| 160 | 90  | 0.39                   | 7.5              | 13.5   | 18.0   | 15.0             | 100          | 32,000                                  | 75GI3390(1)00(2)      | R75GI3390(1)00(2)  |
| 160 | 90  | 0.47                   | 7.5              | 13.5   | 18.0   | 15.0             | 100          | 32,000                                  | 75GI3470(1)00(2)      | R75GI3470(1)00(2)  |
| 160 | 90  | 0.47                   | 9.0              | 12.5   | 18.0   | 15.0             | 100          | 32,000                                  | 75GI3470(1)60(2)      | R75GI3470(1)60(2)  |
| 160 | 90  | 0.56                   | 8.5              | 14.5   | 18.0   | 15.0             | 100          | 32,000                                  | 75GI3560(1)00(2)      | R75GI3560(1)00(2)  |
| 160 | 90  | 0.56                   | 9.0              | 12.5   | 18.0   | 15.0             | 100          | 32,000                                  | 75GI3560(1)60(2)      | R75GI3560(1)60(2)  |
| 160 | 90  | 0.68                   | 8.5              | 14.5   | 18.0   | 15.0             | 100          | 32,000                                  | 75GI3680(1)00(2)      | R75GI3680(1)00(2)  |
| 160 | 90  | 0.68                   | 13.0             | 12.0   | 18.0   | 15.0             | 100          | 32,000                                  | 75GI3680(1)60(2)      | R75GI3680(1)60(2)  |
| 160 | 90  | 0.82                   | 10.0             | 16.0   | 18.0   | 15.0             | 100          | 32,000                                  | 75GI3820(1)00(2)      | R75GI3820(1)00(2)  |
| 160 | 90  | 1.0                    | 10.0             | 16.0   | 18.0   | 15.0             | 100          | 32,000                                  | 75GI4100(1)00(2)      | R75GI4100(1)00(2)  |
| 160 | 90  | 0.82                   | 7.0              | 16.0   | 26.5   | 22.5             | 60           | 19,200                                  | 75GN3820(1)00(2)      | R75GN3820(1)00(2)  |
| 160 | 90  | 1.0                    | 7.0              | 16.0   | 26.5   | 22.5             | 60           | 19,200                                  | 75GN4100(1)00(2)      | R75GN4100(1)00(2)  |
| 160 | 90  | 1.2                    | 8.5              | 17.0   | 26.5   | 22.5             | 60           | 19,200                                  | 75GN4120(1)00(2)      | R75GN4120(1)00(2)  |
| 160 | 90  | 1.5                    | 10.0             | 18.5   | 26.5   | 22.5             | 60           | 19,200                                  | 75GN4150(1)00(2)      | R75GN4150(1)00(2)  |
| 160 | 90  | 1.8                    | 10.0             | 18.5   | 26.5   | 22.5             | 60           | 19,200                                  | 75GN4180(1)00(2)      | R75GN4180(1)00(2)  |
| 160 | 90  | 1.5                    | 9.0              | 17.0   | 32.0   | 27.5             | 50           | 16,000                                  | 75GR4150(1)00(2)      | R75GR4150(1)00(2)  |
| 160 | 90  | 1.8                    | 9.0              | 17.0   | 32.0   | 27.5             | 50           | 16,000                                  | 75GR4180(1)00(2)      | R75GR4180(1)00(2)  |
| 160 | 90  | 2.2                    | 11.0             | 20.0   | 32.0   | 27.5             | 50           | 16,000                                  | 75GR4220(1)30(2)      | R75GR4220(1)30(2)  |
| 160 | 90  | 2.7                    | 11.0             | 20.0   | 32.0   | 27.5             | 50           | 16,000                                  | 75GR4270(1)00(2)      | R75GR4270(1)00(2)  |
| 160 | 90  | 3.3                    | 13.0             | 22.0   | 32.0   | 27.5             | 50           | 16,000                                  | 75GR4330(1)00(2)      | R75GR4330(1)00(2)  |
| 160 | 90  | 3.9                    | 13.0             | 22.0   | 32.0   | 27.5             | 50           | 16,000                                  | 75GR4390(1)00(2)      | R75GR4390(1)00(2)  |
| 160 | 90  | 4.7                    | 13.0             | 25.0   | 32.0   | 27.5             | 50           | 16,000                                  | 75GR4470(1)30(2)      | R75GR4470(1)30(2)  |
| 160 | 90  | 5.6                    | 14.0             | 28.0   | 32.0   | 27.5             | 50           | 16,000                                  | 75GR4560(1)00(2)      | R75GR4560(1)00(2)  |
| 160 | 90  | 6.8                    | 18.0             | 33.0   | 32.0   | 27.5             | 50           | 16,000                                  | 75GR4680(1)00(2)      | R75GR4680(1)00(2)  |
| 160 | 90  | 8.2                    | 18.0             | 33.0   | 32.0   | 27.5             | 50           | 16,000                                  | 75GR4820(1)00(2)      | R75GR4820(1)00(2)  |
| 160 | 90  | 10                     | 22.0             | 37.0   | 32.0   | 27.5             | 50           | 16,000                                  | 75GR5100(1)00(2)      | R75GR5100(1)00(2)  |
| 160 | 90  | 12                     | 22.0             | 37.0   | 32.0   | 27.5             | 50           | 16,000                                  | 75GR5120(1)00(2)      | R75GR5120(1)00(2)  |
| 160 | 90  | 3.3                    | 11.0             | 22.0   | 41.5   | 37.5             | 35           | 11,200                                  | 75GW4330(1)00(2)      | R75GW4330(1)00(2)  |
| 160 | 90  | 3.9                    | 11.0             | 22.0   | 41.5   | 37.5             | 35           | 11,200                                  | 75GW4390(1)00(2)      | R75GW4390(1)00(2)  |
| 160 | 90  | 4.7                    | 11.0             | 22.0   | 41.5   | 37.5             | 35           | 11,200                                  | 75GW4470(1)00(2)      | R75GW4470(1)00(2)  |
| 160 | 90  | 5.6                    | 13.0             | 24.0   | 41.5   | 37.5             | 35           | 11,200                                  | 75GW4560(1)00(2)      | R75GW4560(1)00(2)  |
| 160 | 90  | 6.8                    | 16.0             | 28.5   | 41.5   | 37.5             | 35           | 11,200                                  | 75GW4680(1)00(2)      | R75GW4680(1)00(2)  |
| 160 | 90  | 8.2                    | 16.0             | 28.5   | 41.5   | 37.5             | 35           | 11,200                                  | 75GW4820(1)00(2)      | R75GW4820(1)00(2)  |
| 160 | 90  | 10                     | 19.0             | 32.0   | 41.5   | 37.5             | 35           | 11,200                                  | 75GW5100(1)00(2)      | R75GW5100(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) J = 5%, K = 10%, M = 20%

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      |                  |              |                                         |                       |                    |
| 160 | 90  | 12                     | 19.0             | 32.0   | 41.5   | 37.5             | 35           | 11,200                                  | 75GW5120(1)00(2)      | R75GW5120(1)00(2)  |
| 160 | 90  | 15                     | 20.0             | 40.0   | 41.5   | 37.5             | 35           | 11,200                                  | 75GW5150(1)00(2)      | R75GW5150(1)00(2)  |
| 160 | 90  | 18                     | 20.0             | 40.0   | 41.5   | 37.5             | 35           | 11,200                                  | 75GW5180(1)00(2)      | R75GW5180(1)00(2)  |
| 160 | 90  | 22                     | 24.0             | 44.0   | 41.5   | 37.5             | 35           | 11,200                                  | 75GW5220(1)00(2)      | R75GW5220(1)00(2)  |
| 160 | 90  | 27                     | 30.0             | 45.0   | 41.5   | 37.5             | 35           | 11,200                                  | 75GW5270(1)00(2)      | R75GW5270(1)00(2)  |
| 160 | 90  | 33                     | 30.0             | 45.0   | 41.5   | 37.5             | 35           | 11,200                                  | 75GW5330(1)00(2)      | R75GW5330(1)00(2)  |
| 250 | 140 | 0.068                  | 4.0              | 9.0    | 10.0   | 7.5              | 180          | 90,000                                  | 75ID2680(1)B0(2)      | R75ID2680(1)B0(2)  |
| 250 | 140 | 0.082                  | 4.0              | 9.0    | 10.0   | 7.5              | 180          | 90,000                                  | 75ID2820(1)B0(2)      | R75ID2820(1)B0(2)  |
| 250 | 140 | 0.10                   | 5.0              | 10.5   | 10.0   | 7.5              | 180          | 90,000                                  | 75ID3100(1)B0(2)      | R75ID3100(1)B0(2)  |
| 250 | 140 | 0.12                   | 5.0              | 10.5   | 10.0   | 7.5              | 180          | 90,000                                  | 75ID3120(1)B0(2)      | R75ID3120(1)B0(2)  |
| 250 | 140 | 0.15                   | 6.0              | 12.0   | 10.5   | 7.5              | 180          | 90,000                                  | 75ID3150(1)A0(2)      | R75ID3150(1)A0(2)  |
| 250 | 140 | 0.18                   | 6.0              | 12.0   | 10.5   | 7.5              | 180          | 90,000                                  | 75ID3180(1)A0(2)      | R75ID3180(1)A0(2)  |
| 250 | 140 | 0.08                   | 4.0              | 9.0    | 13.0   | 10.0             | 150          | 75,000                                  | 75IF2820(1)A0(2)      | R75IF2820(1)A0(2)  |
| 250 | 140 | 0.10                   | 4.0              | 9.0    | 13.0   | 10.0             | 150          | 75,000                                  | 75IF3100(1)A0(2)      | R75IF3100(1)A0(2)  |
| 250 | 140 | 0.12                   | 5.0              | 11.0   | 13.0   | 10.0             | 150          | 75,000                                  | 75IF3120(1)A0(2)      | R75IF3120(1)A0(2)  |
| 250 | 140 | 0.15                   | 5.0              | 11.0   | 13.0   | 10.0             | 150          | 75,000                                  | 75IF3150(1)A0(2)      | R75IF3150(1)A0(2)  |
| 250 | 140 | 0.18                   | 6.0              | 12.0   | 13.0   | 10.0             | 150          | 75,000                                  | 75IF3180(1)A0(2)      | R75IF3180(1)A0(2)  |
| 250 | 140 | 0.22                   | 6.0              | 12.0   | 13.0   | 10.0             | 150          | 75,000                                  | 75IF3220(1)A0(2)      | R75IF3220(1)A0(2)  |
| 250 | 160 | 0.027                  | 4.0              | 9.0    | 10.0   | 7.5              | 650          | 325,000                                 | 75ID2270(1)40(2)      | R75ID2270(1)40(2)  |
| 250 | 160 | 0.033                  | 4.0              | 9.0    | 10.0   | 7.5              | 650          | 325,000                                 | 75ID2330(1)40(2)      | R75ID2330(1)40(2)  |
| 250 | 160 | 0.039                  | 4.0              | 9.0    | 10.0   | 7.5              | 650          | 325,000                                 | 75ID2390(1)40(2)      | R75ID2390(1)40(2)  |
| 250 | 160 | 0.047                  | 4.0              | 9.0    | 10.0   | 7.5              | 650          | 325,000                                 | 75ID2470(1)40(2)      | R75ID2470(1)40(2)  |
| 250 | 160 | 0.056                  | 4.0              | 9.0    | 10.0   | 7.5              | 650          | 325,000                                 | 75ID2560(1)40(2)      | R75ID2560(1)40(2)  |
| 250 | 160 | 0.068                  | 5.0              | 10.5   | 10.0   | 7.5              | 650          | 325,000                                 | 75ID2680(1)40(2)      | R75ID2680(1)40(2)  |
| 250 | 160 | 0.082                  | 5.0              | 10.5   | 10.0   | 7.5              | 650          | 325,000                                 | 75ID2820(1)40(2)      | R75ID2820(1)40(2)  |
| 250 | 160 | 0.10                   | 6.0              | 12.0   | 10.5   | 7.5              | 650          | 325,000                                 | 75ID3100(1)30(2)      | R75ID3100(1)30(2)  |
| 250 | 160 | 0.12                   | 6.0              | 12.0   | 10.5   | 7.5              | 650          | 325,000                                 | 75ID3120(1)30(2)      | R75ID3120(1)30(2)  |
| 250 | 160 | 0.033                  | 4.0              | 9.0    | 13.0   | 10.0             | 550          | 275,000                                 | 75IF2330(1)00(2)      | R75IF2330(1)00(2)  |
| 250 | 160 | 0.039                  | 4.0              | 9.0    | 13.0   | 10.0             | 550          | 275,000                                 | 75IF2390(1)00(2)      | R75IF2390(1)00(2)  |
| 250 | 160 | 0.047                  | 4.0              | 9.0    | 13.0   | 10.0             | 550          | 275,000                                 | 75IF2470(1)30(2)      | R75IF2470(1)30(2)  |
| 250 | 160 | 0.056                  | 4.0              | 9.0    | 13.0   | 10.0             | 550          | 275,000                                 | 75IF2560(1)30(2)      | R75IF2560(1)30(2)  |
| 250 | 160 | 0.068                  | 4.0              | 9.0    | 13.0   | 10.0             | 550          | 275,000                                 | 75IF2680(1)30(2)      | R75IF2680(1)30(2)  |
| 250 | 160 | 0.082                  | 5.0              | 11.0   | 13.0   | 10.0             | 550          | 275,000                                 | 75IF2820(1)30(2)      | R75IF2820(1)30(2)  |
| 250 | 160 | 0.10                   | 5.0              | 11.0   | 13.0   | 10.0             | 550          | 275,000                                 | 75IF3100(1)30(2)      | R75IF3100(1)30(2)  |
| 250 | 160 | 0.12                   | 6.0              | 12.0   | 13.0   | 10.0             | 550          | 275,000                                 | 75IF3120(1)30(2)      | R75IF3120(1)30(2)  |
| 250 | 160 | 0.15                   | 6.0              | 12.0   | 13.0   | 10.0             | 550          | 275,000                                 | 75IF3150(1)30(2)      | R75IF3150(1)30(2)  |
| 250 | 160 | 0.12                   | 5.0              | 11.0   | 18.0   | 15.0             | 300          | 150,000                                 | 75II3120(1)30(2)      | R75II3120(1)30(2)  |
| 250 | 160 | 0.15                   | 5.0              | 11.0   | 18.0   | 15.0             | 300          | 150,000                                 | 75II3150(1)30(2)      | R75II3150(1)30(2)  |
| 250 | 160 | 0.18                   | 5.0              | 11.0   | 18.0   | 15.0             | 300          | 150,000                                 | 75II3180(1)40(2)      | R75II3180(1)40(2)  |
| 250 | 160 | 0.22                   | 5.0              | 11.0   | 18.0   | 15.0             | 300          | 150,000                                 | 75II3220(1)40(2)      | R75II3220(1)40(2)  |
| 250 | 160 | 0.27                   | 6.0              | 12.0   | 18.0   | 15.0             | 300          | 150,000                                 | 75II3270(1)40(2)      | R75II3270(1)40(2)  |
| 250 | 160 | 0.33                   | 6.0              | 12.0   | 18.0   | 15.0             | 300          | 150,000                                 | 75II3330(1)40(2)      | R75II3330(1)40(2)  |
| 250 | 160 | 0.39                   | 7.5              | 13.5   | 18.0   | 15.0             | 300          | 150,000                                 | 75II3390(1)40(2)      | R75II3390(1)40(2)  |
| 250 | 160 | 0.39                   | 9.0              | 12.5   | 18.0   | 15.0             | 300          | 150,000                                 | 75II3390(1)70(2)      | R75II3390(1)70(2)  |
| 250 | 160 | 0.47                   | 7.5              | 13.5   | 18.0   | 15.0             | 300          | 150,000                                 | 75II3470(1)40(2)      | R75II3470(1)40(2)  |
| 250 | 160 | 0.47                   | 9.0              | 12.5   | 18.0   | 15.0             | 300          | 150,000                                 | 75II3470(1)80(2)      | R75II3470(1)80(2)  |
| 250 | 160 | 0.56                   | 7.5              | 13.5   | 18.0   | 15.0             | 300          | 150,000                                 | 75II3560(1)40(2)      | R75II3560(1)40(2)  |
| 250 | 160 | 0.56                   | 9.0              | 12.5   | 18.0   | 15.0             | 300          | 150,000                                 | 75II3560(1)80(2)      | R75II3560(1)80(2)  |
| 250 | 160 | 0.68                   | 8.5              | 14.5   | 18.0   | 15.0             | 300          | 150,000                                 | 75II3680(1)40(2)      | R75II3680(1)40(2)  |
| 250 | 160 | 0.68                   | 13.0             | 12.0   | 18.0   | 15.0             | 300          | 150,000                                 | 75II3680(1)80(2)      | R75II3680(1)80(2)  |
| 250 | 160 | 0.82                   | 10.0             | 16.0   | 18.0   | 15.0             | 300          | 150,000                                 | 75II3820(1)40(2)      | R75II3820(1)40(2)  |
| 250 | 160 | 0.82                   | 13.0             | 12.0   | 18.0   | 15.0             | 300          | 150,000                                 | 75II3820(1)80(2)      | R75II3820(1)80(2)  |
| 250 | 160 | 1.0                    | 10.0             | 16.0   | 18.0   | 15.0             | 300          | 150,000                                 | 75II4100(1)40(2)      | R75II4100(1)40(2)  |
| 250 | 160 | 1.2                    | 11.0             | 19.0   | 18.0   | 15.0             | 300          | 150,000                                 | 75II4120(1)40(2)      | R75II4120(1)40(2)  |
| 250 | 160 | 0.39                   | 6.0              | 15.0   | 26.5   | 22.5             | 125          | 62,500                                  | 75IN3390(1)30(2)      | R75IN3390(1)30(2)  |
| 250 | 160 | 0.47                   | 6.0              | 15.0   | 26.5   | 22.5             | 125          | 62,500                                  | 75IN3470(1)30(2)      | R75IN3470(1)30(2)  |
| 250 | 160 | 0.56                   | 6.0              | 15.0   | 26.5   | 22.5             | 125          | 62,500                                  | 75IN3560(1)40(2)      | R75IN3560(1)40(2)  |
| 250 | 160 | 0.68                   | 6.0              | 15.0   | 26.5   | 22.5             | 125          | 62,500                                  | 75IN3680(1)40(2)      | R75IN3680(1)40(2)  |
| 250 | 160 | 0.82                   | 7.0              | 16.0   | 26.5   | 22.5             | 125          | 62,500                                  | 75IN3820(1)40(2)      | R75IN3820(1)40(2)  |
| 250 | 160 | 1.0                    | 7.0              | 16.0   | 26.5   | 22.5             | 125          | 62,500                                  | 75IN4100(1)40(2)      | R75IN4100(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) J = 5%, K = 10%, M = 20%

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 | 160 | 1.2                    | 8.5              | 17.0   | 26.5   | 22.5             | 125          | 62,500                                  | 75IN4120(1)40(2)      | R75IN4120(1)40(2)  |
| 250 | 160 | 1.5                    | 10.0             | 18.5   | 26.5   | 22.5             | 125          | 62,500                                  | 75IN4150(1)40(2)      | R75IN4150(1)40(2)  |
| 250 | 160 | 1.8                    | 10.0             | 18.5   | 26.5   | 22.5             | 125          | 62,500                                  | 75IN4180(1)40(2)      | R75IN4180(1)40(2)  |
| 250 | 160 | 2.2                    | 11.0             | 20.0   | 26.5   | 22.5             | 125          | 62,500                                  | 75IN4220(1)40(2)      | R75IN4220(1)40(2)  |
| 250 | 160 | 2.7                    | 13.0             | 22.0   | 26.5   | 22.5             | 125          | 62,500                                  | 75IN4270(1)40(2)      | R75IN4270(1)40(2)  |
| 250 | 160 | 3.3                    | 13.0             | 22.0   | 26.5   | 22.5             | 125          | 62,500                                  | 75IN4330(1)40(2)      | R75IN4330(1)40(2)  |
| 250 | 160 | 1.0                    | 9.0              | 17.0   | 32.0   | 27.5             | 100          | 50,000                                  | 75IR4100(1)30(2)      | R75IR4100(1)30(2)  |
| 250 | 160 | 1.2                    | 9.0              | 17.0   | 32.0   | 27.5             | 100          | 50,000                                  | 75IR4120(1)30(2)      | R75IR4120(1)30(2)  |
| 250 | 160 | 1.5                    | 9.0              | 17.0   | 32.0   | 27.5             | 100          | 50,000                                  | 75IR4150(1)40(2)      | R75IR4150(1)40(2)  |
| 250 | 160 | 1.8                    | 9.0              | 17.0   | 32.0   | 27.5             | 100          | 50,000                                  | 75IR4180(1)40(2)      | R75IR4180(1)40(2)  |
| 250 | 160 | 2.2                    | 11.0             | 20.0   | 32.0   | 27.5             | 100          | 50,000                                  | 75IR4220(1)50(2)      | R75IR4220(1)50(2)  |
| 250 | 160 | 2.7                    | 11.0             | 20.0   | 32.0   | 27.5             | 100          | 50,000                                  | 75IR4270(1)40(2)      | R75IR4270(1)40(2)  |
| 250 | 160 | 3.3                    | 13.0             | 22.0   | 32.0   | 27.5             | 100          | 50,000                                  | 75IR4330(1)40(2)      | R75IR4330(1)40(2)  |
| 250 | 160 | 3.9                    | 13.0             | 22.0   | 32.0   | 27.5             | 100          | 50,000                                  | 75IR4390(1)40(2)      | R75IR4390(1)40(2)  |
| 250 | 160 | 4.7                    | 13.0             | 25.0   | 32.0   | 27.5             | 100          | 50,000                                  | 75IR4470(1)50(2)      | R75IR4470(1)50(2)  |
| 250 | 160 | 5.6                    | 14.0             | 28.0   | 32.0   | 27.5             | 100          | 50,000                                  | 75IR4560(1)40(2)      | R75IR4560(1)40(2)  |
| 250 | 160 | 6.8                    | 18.0             | 33.0   | 32.0   | 27.5             | 100          | 50,000                                  | 75IR4680(1)40(2)      | R75IR4680(1)40(2)  |
| 250 | 160 | 8.2                    | 18.0             | 33.0   | 32.0   | 27.5             | 100          | 50,000                                  | 75IR4820(1)40(2)      | R75IR4820(1)40(2)  |
| 250 | 160 | 10                     | 22.0             | 37.0   | 32.0   | 27.5             | 100          | 50,000                                  | 75IR5100(1)40(2)      | R75IR5100(1)40(2)  |
| 250 | 160 | 12                     | 22.0             | 37.0   | 32.0   | 27.5             | 100          | 50,000                                  | 75IR5120(1)40(2)      | R75IR5120(1)40(2)  |
| 250 | 160 | 3.3                    | 11.0             | 22.0   | 41.5   | 37.5             | 40           | 20,000                                  | 75IW4330(1)40(2)      | R75IW4330(1)40(2)  |
| 250 | 160 | 3.9                    | 11.0             | 22.0   | 41.5   | 37.5             | 40           | 20,000                                  | 75IW4390(1)40(2)      | R75IW4390(1)40(2)  |
| 250 | 160 | 4.7                    | 11.0             | 22.0   | 41.5   | 37.5             | 40           | 20,000                                  | 75IW4470(1)40(2)      | R75IW4470(1)40(2)  |
| 250 | 160 | 5.6                    | 13.0             | 24.0   | 41.5   | 37.5             | 40           | 20,000                                  | 75IW4560(1)40(2)      | R75IW4560(1)40(2)  |
| 250 | 160 | 6.8                    | 16.0             | 28.5   | 41.5   | 37.5             | 40           | 20,000                                  | 75IW4680(1)40(2)      | R75IW4680(1)40(2)  |
| 250 | 160 | 8.2                    | 16.0             | 28.5   | 41.5   | 37.5             | 40           | 20,000                                  | 75IW4820(1)40(2)      | R75IW4820(1)40(2)  |
| 250 | 160 | 10                     | 19.0             | 32.0   | 41.5   | 37.5             | 40           | 20,000                                  | 75IW5100(1)40(2)      | R75IW5100(1)40(2)  |
| 250 | 160 | 12                     | 19.0             | 32.0   | 41.5   | 37.5             | 40           | 20,000                                  | 75IW5120(1)40(2)      | R75IW5120(1)40(2)  |
| 250 | 160 | 15                     | 20.0             | 40.0   | 41.5   | 37.5             | 40           | 20,000                                  | 75IW5150(1)40(2)      | R75IW5150(1)40(2)  |
| 250 | 160 | 18                     | 20.0             | 40.0   | 41.5   | 37.5             | 40           | 20,000                                  | 75IW5180(1)40(2)      | R75IW5180(1)40(2)  |
| 250 | 160 | 22                     | 24.0             | 44.0   | 41.5   | 37.5             | 40           | 20,000                                  | 75IW5220(1)40(2)      | R75IW5220(1)40(2)  |
| 250 | 160 | 27                     | 24.0             | 44.0   | 41.5   | 37.5             | 40           | 20,000                                  | 75IW5270(1)40(2)      | R75IW5270(1)40(2)  |
| 250 | 160 | 33                     | 30.0             | 45.0   | 41.5   | 37.5             | 40           | 20,000                                  | 75IW5330(1)40(2)      | R75IW5330(1)40(2)  |
| 400 | 200 | 0.027                  | 4.0              | 9.0    | 10.0   | 7.5              | 390          | 312,000                                 | 75MD2270(1)B0(2)      | R75MD2270(1)B0(2)  |
| 400 | 200 | 0.033                  | 5.0              | 10.5   | 10.0   | 7.5              | 390          | 312,000                                 | 75MD2330(1)B0(2)      | R75MD2330(1)B0(2)  |
| 400 | 200 | 0.039                  | 5.0              | 10.5   | 10.0   | 7.5              | 390          | 312,000                                 | 75MD2390(1)B0(2)      | R75MD2390(1)B0(2)  |
| 400 | 200 | 0.047                  | 5.0              | 10.5   | 10.0   | 7.5              | 390          | 312,000                                 | 75MD2470(1)B0(2)      | R75MD2470(1)B0(2)  |
| 400 | 200 | 0.056                  | 6.0              | 12.0   | 10.5   | 7.5              | 390          | 312,000                                 | 75MD2560(1)A0(2)      | R75MD2560(1)A0(2)  |
| 400 | 200 | 0.068                  | 6.0              | 12.0   | 10.5   | 7.5              | 390          | 312,000                                 | 75MD2680(1)A0(2)      | R75MD2680(1)A0(2)  |
| 400 | 220 | 0.010                  | 4.0              | 9.0    | 10.0   | 7.5              | 1,500        | 1,200,000                               | 75MD2100(1)40(2)      | R75MD2100(1)40(2)  |
| 400 | 220 | 0.012                  | 4.0              | 9.0    | 10.0   | 7.5              | 1,500        | 1,200,000                               | 75MD2120(1)40(2)      | R75MD2120(1)40(2)  |
| 400 | 220 | 0.015                  | 4.0              | 9.0    | 10.0   | 7.5              | 1,500        | 1,200,000                               | 75MD2150(1)40(2)      | R75MD2150(1)40(2)  |
| 400 | 220 | 0.018                  | 4.0              | 9.0    | 10.0   | 7.5              | 1,500        | 1,200,000                               | 75MD2180(1)40(2)      | R75MD2180(1)40(2)  |
| 400 | 220 | 0.022                  | 4.0              | 9.0    | 10.0   | 7.5              | 1,500        | 1,200,000                               | 75MD2220(1)40(2)      | R75MD2220(1)40(2)  |
| 400 | 220 | 0.027                  | 5.0              | 10.5   | 10.0   | 7.5              | 1,500        | 1,200,000                               | 75MD2270(1)40(2)      | R75MD2270(1)40(2)  |
| 400 | 220 | 0.033                  | 5.0              | 10.5   | 10.0   | 7.5              | 1,500        | 1,200,000                               | 75MD2330(1)40(2)      | R75MD2330(1)40(2)  |
| 400 | 220 | 0.039                  | 6.0              | 12.0   | 10.5   | 7.5              | 1,500        | 1,200,000                               | 75MD2390(1)30(2)      | R75MD2390(1)30(2)  |
| 400 | 220 | 0.047                  | 6.0              | 12.0   | 10.5   | 7.5              | 1,500        | 1,200,000                               | 75MD2470(1)30(2)      | R75MD2470(1)30(2)  |
| 400 | 220 | 0.015                  | 4.0              | 9.0    | 13.0   | 10.0             | 1,300        | 1,040,000                               | 75MF2150(1)00(2)      | R75MF2150(1)00(2)  |
| 400 | 220 | 0.018                  | 4.0              | 9.0    | 13.0   | 10.0             | 1,300        | 1,040,000                               | 75MF2180(1)00(2)      | R75MF2180(1)00(2)  |
| 400 | 220 | 0.022                  | 4.0              | 9.0    | 13.0   | 10.0             | 1,300        | 1,040,000                               | 75MF2220(1)30(2)      | R75MF2220(1)30(2)  |
| 400 | 220 | 0.027                  | 4.0              | 9.0    | 13.0   | 10.0             | 1,300        | 1,040,000                               | 75MF2270(1)30(2)      | R75MF2270(1)30(2)  |
| 400 | 220 | 0.033                  | 5.0              | 11.0   | 13.0   | 10.0             | 1,300        | 1,040,000                               | 75MF2330(1)30(2)      | R75MF2330(1)30(2)  |
| 400 | 220 | 0.039                  | 5.0              | 11.0   | 13.0   | 10.0             | 1,300        | 1,040,000                               | 75MF2390(1)30(2)      | R75MF2390(1)30(2)  |
| 400 | 220 | 0.047                  | 5.0              | 11.0   | 13.0   | 10.0             | 1,300        | 1,040,000                               | 75MF2470(1)30(2)      | R75MF2470(1)30(2)  |
| 400 | 220 | 0.056                  | 6.0              | 12.0   | 13.0   | 10.0             | 1,300        | 1,040,000                               | 75MF2560(1)30(2)      | R75MF2560(1)30(2)  |
| 400 | 220 | 0.068                  | 6.0              | 12.0   | 13.0   | 10.0             | 1,300        | 1,040,000                               | 75MF2680(1)30(2)      | R75MF2680(1)30(2)  |
| 400 | 220 | 0.068                  | 5.0              | 11.0   | 18.0   | 15.0             | 900          | 720,000                                 | 75MI2680(1)30(2)      | R75MI2680(1)30(2)  |
| 400 | 220 | 0.082                  | 5.0              | 11.0   | 18.0   | 15.0             | 900          | 720,000                                 | 75MI2820(1)30(2)      | R75MI2820(1)30(2)  |
| 400 | 220 | 0.10                   | 5.0              | 11.0   | 18.0   | 15.0             | 900          | 720,000                                 | 75MI3100(1)30(2)      | R75MI3100(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%, M = 20%

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 | 220 | 0.12                   | 6.0              | 12.0   | 18.0   | 15.0             | 900          | 720,000                                 | 75MI3120(1)30(2)      | R75MI3120(1)30(2)  |
| 400 | 220 | 0.15                   | 6.0              | 12.0   | 18.0   | 15.0             | 900          | 720,000                                 | 75MI3150(1)30(2)      | R75MI3150(1)30(2)  |
| 400 | 220 | 0.18                   | 7.5              | 13.5   | 18.0   | 15.0             | 900          | 720,000                                 | 75MI3180(1)30(2)      | R75MI3180(1)30(2)  |
| 400 | 220 | 0.22                   | 7.5              | 13.5   | 18.0   | 15.0             | 900          | 720,000                                 | 75MI3220(1)30(2)      | R75MI3220(1)30(2)  |
| 400 | 220 | 0.22                   | 9.0              | 12.5   | 18.0   | 15.0             | 900          | 720,000                                 | 75MI3220(1)70(2)      | R75MI3220(1)70(2)  |
| 400 | 220 | 0.27                   | 8.5              | 14.5   | 18.0   | 15.0             | 900          | 720,000                                 | 75MI3270(1)30(2)      | R75MI3270(1)30(2)  |
| 400 | 220 | 0.27                   | 9.0              | 12.5   | 18.0   | 15.0             | 900          | 720,000                                 | 75MI3270(1)70(2)      | R75MI3270(1)70(2)  |
| 400 | 220 | 0.33                   | 10.0             | 16.0   | 18.0   | 15.0             | 900          | 720,000                                 | 75MI3330(1)30(2)      | R75MI3330(1)30(2)  |
| 400 | 220 | 0.33                   | 13.0             | 12.0   | 18.0   | 15.0             | 900          | 720,000                                 | 75MI3330(1)70(2)      | R75MI3330(1)70(2)  |
| 400 | 220 | 0.39                   | 10.0             | 16.0   | 18.0   | 15.0             | 900          | 720,000                                 | 75MI3390(1)30(2)      | R75MI3390(1)30(2)  |
| 400 | 220 | 0.47                   | 10.0             | 16.0   | 18.0   | 15.0             | 900          | 720,000                                 | 75MI3470(1)30(2)      | R75MI3470(1)30(2)  |
| 400 | 220 | 0.56                   | 11.0             | 19.0   | 18.0   | 15.0             | 900          | 720,000                                 | 75MI3560(1)30(2)      | R75MI3560(1)30(2)  |
| 400 | 220 | 0.18                   | 6.0              | 15.0   | 26.5   | 22.5             | 300          | 240,000                                 | 75MN3180(1)30(2)      | R75MN3180(1)30(2)  |
| 400 | 220 | 0.22                   | 6.0              | 15.0   | 26.5   | 22.5             | 300          | 240,000                                 | 75MN3220(1)30(2)      | R75MN3220(1)30(2)  |
| 400 | 220 | 0.27                   | 6.0              | 15.0   | 26.5   | 22.5             | 300          | 240,000                                 | 75MN3270(1)30(2)      | R75MN3270(1)30(2)  |
| 400 | 220 | 0.33                   | 6.0              | 15.0   | 26.5   | 22.5             | 300          | 240,000                                 | 75MN3330(1)30(2)      | R75MN3330(1)30(2)  |
| 400 | 220 | 0.39                   | 7.0              | 16.0   | 26.5   | 22.5             | 300          | 240,000                                 | 75MN3390(1)30(2)      | R75MN3390(1)30(2)  |
| 400 | 220 | 0.47                   | 7.0              | 16.0   | 26.5   | 22.5             | 300          | 240,000                                 | 75MN3470(1)30(2)      | R75MN3470(1)30(2)  |
| 400 | 220 | 0.56                   | 8.5              | 17.0   | 26.5   | 22.5             | 300          | 240,000                                 | 75MN3560(1)30(2)      | R75MN3560(1)30(2)  |
| 400 | 220 | 0.68                   | 10.0             | 18.5   | 26.5   | 22.5             | 300          | 240,000                                 | 75MN3680(1)30(2)      | R75MN3680(1)30(2)  |
| 400 | 220 | 0.82                   | 10.0             | 18.5   | 26.5   | 22.5             | 300          | 240,000                                 | 75MN3820(1)30(2)      | R75MN3820(1)30(2)  |
| 400 | 220 | 1.0                    | 11.0             | 20.0   | 26.5   | 22.5             | 300          | 240,000                                 | 75MN4100(1)30(2)      | R75MN4100(1)30(2)  |
| 400 | 220 | 1.2                    | 13.0             | 22.0   | 26.5   | 22.5             | 300          | 240,000                                 | 75MN4120(1)30(2)      | R75MN4120(1)30(2)  |
| 400 | 220 | 1.5                    | 13.0             | 22.0   | 26.5   | 22.5             | 300          | 240,000                                 | 75MN4150(1)30(2)      | R75MN4150(1)30(2)  |
| 400 | 220 | 0.56                   | 9.0              | 17.0   | 32.0   | 27.5             | 130          | 104,000                                 | 75MR3560(1)30(2)      | R75MR3560(1)30(2)  |
| 400 | 220 | 0.68                   | 9.0              | 17.0   | 32.0   | 27.5             | 130          | 104,000                                 | 75MR3680(1)30(2)      | R75MR3680(1)30(2)  |
| 400 | 220 | 0.82                   | 9.0              | 17.0   | 32.0   | 27.5             | 130          | 104,000                                 | 75MR3820(1)30(2)      | R75MR3820(1)30(2)  |
| 400 | 220 | 1.0                    | 11.0             | 20.0   | 32.0   | 27.5             | 130          | 104,000                                 | 75MR4100(1)40(2)      | R75MR4100(1)40(2)  |
| 400 | 220 | 1.2                    | 11.0             | 20.0   | 32.0   | 27.5             | 130          | 104,000                                 | 75MR4120(1)30(2)      | R75MR4120(1)30(2)  |
| 400 | 220 | 1.5                    | 13.0             | 22.0   | 32.0   | 27.5             | 130          | 104,000                                 | 75MR4150(1)30(2)      | R75MR4150(1)30(2)  |
| 400 | 220 | 1.8                    | 13.0             | 22.0   | 32.0   | 27.5             | 130          | 104,000                                 | 75MR4180(1)30(2)      | R75MR4180(1)30(2)  |
| 400 | 220 | 2.2                    | 13.0             | 25.0   | 32.0   | 27.5             | 130          | 104,000                                 | 75MR4220(1)40(2)      | R75MR4220(1)40(2)  |
| 400 | 220 | 2.7                    | 14.0             | 28.0   | 32.0   | 27.5             | 130          | 104,000                                 | 75MR4270(1)30(2)      | R75MR4270(1)30(2)  |
| 400 | 220 | 3.3                    | 18.0             | 33.0   | 32.0   | 27.5             | 130          | 104,000                                 | 75MR4330(1)30(2)      | R75MR4330(1)30(2)  |
| 400 | 220 | 3.9                    | 18.0             | 33.0   | 32.0   | 27.5             | 130          | 104,000                                 | 75MR4390(1)30(2)      | R75MR4390(1)30(2)  |
| 400 | 220 | 4.7                    | 22.0             | 37.0   | 32.0   | 27.5             | 130          | 104,000                                 | 75MR4470(1)30(2)      | R75MR4470(1)30(2)  |
| 400 | 220 | 5.6                    | 22.0             | 37.0   | 32.0   | 27.5             | 130          | 104,000                                 | 75MR4560(1)30(2)      | R75MR4560(1)30(2)  |
| 400 | 220 | 1.2                    | 11.0             | 22.0   | 41.5   | 37.5             | 70           | 56,000                                  | 75MW4120(1)30(2)      | R75MW4120(1)30(2)  |
| 400 | 220 | 1.5                    | 11.0             | 22.0   | 41.5   | 37.5             | 70           | 56,000                                  | 75MW4150(1)30(2)      | R75MW4150(1)30(2)  |
| 400 | 220 | 1.8                    | 11.0             | 22.0   | 41.5   | 37.5             | 70           | 56,000                                  | 75MW4180(1)30(2)      | R75MW4180(1)30(2)  |
| 400 | 220 | 2.2                    | 11.0             | 22.0   | 41.5   | 37.5             | 70           | 56,000                                  | 75MW4220(1)30(2)      | R75MW4220(1)30(2)  |
| 400 | 220 | 2.7                    | 13.0             | 24.0   | 41.5   | 37.5             | 70           | 56,000                                  | 75MW4270(1)30(2)      | R75MW4270(1)30(2)  |
| 400 | 220 | 3.3                    | 16.0             | 28.5   | 41.5   | 37.5             | 70           | 56,000                                  | 75MW4330(1)30(2)      | R75MW4330(1)30(2)  |
| 400 | 220 | 3.9                    | 16.0             | 28.5   | 41.5   | 37.5             | 70           | 56,000                                  | 75MW4390(1)30(2)      | R75MW4390(1)30(2)  |
| 400 | 220 | 4.7                    | 19.0             | 32.0   | 41.5   | 37.5             | 70           | 56,000                                  | 75MW4470(1)30(2)      | R75MW4470(1)30(2)  |
| 400 | 220 | 5.6                    | 19.0             | 32.0   | 41.5   | 37.5             | 70           | 56,000                                  | 75MW4560(1)30(2)      | R75MW4560(1)30(2)  |
| 400 | 220 | 6.8                    | 19.0             | 32.0   | 41.5   | 37.5             | 70           | 56,000                                  | 75MW4680(1)30(2)      | R75MW4680(1)30(2)  |
| 400 | 220 | 8.2                    | 20.0             | 40.0   | 41.5   | 37.5             | 70           | 56,000                                  | 75MW4820(1)30(2)      | R75MW4820(1)30(2)  |
| 400 | 220 | 10                     | 20.0             | 40.0   | 41.5   | 37.5             | 70           | 56,000                                  | 75MW5100(1)40(2)      | R75MW5100(1)40(2)  |
| 400 | 220 | 12                     | 24.0             | 44.0   | 41.5   | 37.5             | 70           | 56,000                                  | 75MW5120(1)30(2)      | R75MW5120(1)30(2)  |
| 400 | 220 | 15                     | 30.0             | 45.0   | 41.5   | 37.5             | 70           | 56,000                                  | 75MW5150(1)30(2)      | R75MW5150(1)30(2)  |
| 630 | 220 | 0.010                  | 4.0              | 9.0    | 10.0   | 7.5              | 600          | 756,000                                 | 75PD2100(1)B0(2)      | R75PD2100(1)B0(2)  |
| 630 | 220 | 0.012                  | 4.0              | 9.0    | 10.0   | 7.5              | 600          | 756,000                                 | 75PD2120(1)B0(2)      | R75PD2120(1)B0(2)  |
| 630 | 220 | 0.015                  | 5.0              | 10.5   | 10.0   | 7.5              | 600          | 756,000                                 | 75PD2150(1)B0(2)      | R75PD2150(1)B0(2)  |
| 630 | 220 | 0.018                  | 5.0              | 10.5   | 10.0   | 7.5              | 600          | 756,000                                 | 75PD2180(1)B0(2)      | R75PD2180(1)B0(2)  |
| 630 | 220 | 0.022                  | 6.0              | 12.0   | 10.5   | 7.5              | 600          | 756,000                                 | 75PD2220(1)A0(2)      | R75PD2220(1)A0(2)  |
| 630 | 220 | 0.027                  | 6.0              | 12.0   | 10.5   | 7.5              | 600          | 756,000                                 | 75PD2270(1)A0(2)      | R75PD2270(1)A0(2)  |
| 630 | 250 | 0.0033                 | 4.0              | 9.0    | 10.0   | 7.5              | 2,400        | 3,024,000                               | 75PD1330(1)40(2)      | R75PD1330(1)40(2)  |
| 630 | 250 | 0.0039                 | 4.0              | 9.0    | 10.0   | 7.5              | 2,400        | 3,024,000                               | 75PD1390(1)40(2)      | R75PD1390(1)40(2)  |
| 630 | 250 | 0.0047                 | 4.0              | 9.0    | 10.0   | 7.5              | 2,400        | 3,024,000                               | 75PD1470(1)40(2)      | R75PD1470(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) J = 5%, K = 10%, M = 20%

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 | 250 | 0.0056                 | 4.0              | 9.0    | 10.0   | 7.5              | 2,400        | 3,024,000                               | 75PD1560(1)40(2)      | R75PD1560(1)40(2)  |
| 630 | 250 | 0.0068                 | 4.0              | 9.0    | 10.0   | 7.5              | 2,400        | 3,024,000                               | 75PD1680(1)40(2)      | R75PD1680(1)40(2)  |
| 630 | 250 | 0.0082                 | 4.0              | 9.0    | 10.0   | 7.5              | 2,400        | 3,024,000                               | 75PD1820(1)40(2)      | R75PD1820(1)40(2)  |
| 630 | 250 | 0.010                  | 5.0              | 10.5   | 10.0   | 7.5              | 2,400        | 3,024,000                               | 75PD2100(1)40(2)      | R75PD2100(1)40(2)  |
| 630 | 250 | 0.012                  | 5.0              | 10.5   | 10.0   | 7.5              | 2,400        | 3,024,000                               | 75PD2120(1)40(2)      | R75PD2120(1)40(2)  |
| 630 | 250 | 0.015                  | 6.0              | 12.0   | 10.5   | 7.5              | 2,400        | 3,024,000                               | 75PD2150(1)30(2)      | R75PD2150(1)30(2)  |
| 630 | 250 | 0.018                  | 6.0              | 12.0   | 10.5   | 7.5              | 2,400        | 3,024,000                               | 75PD2180(1)30(2)      | R75PD2180(1)30(2)  |
| 630 | 250 | 0.0010                 | 4.0              | 9.0    | 13.0   | 10.0             | 2,000        | 2,520,000                               | 75PF1100(1)00(2)      | R75PF1100(1)00(2)  |
| 630 | 250 | 0.0012                 | 4.0              | 9.0    | 13.0   | 10.0             | 2,000        | 2,520,000                               | 75PF1120(1)00(2)      | R75PF1120(1)00(2)  |
| 630 | 250 | 0.0015                 | 4.0              | 9.0    | 13.0   | 10.0             | 2,000        | 2,520,000                               | 75PF1150(1)00(2)      | R75PF1150(1)00(2)  |
| 630 | 250 | 0.0018                 | 4.0              | 9.0    | 13.0   | 10.0             | 2,000        | 2,520,000                               | 75PF1180(1)00(2)      | R75PF1180(1)00(2)  |
| 630 | 250 | 0.0022                 | 4.0              | 9.0    | 13.0   | 10.0             | 2,000        | 2,520,000                               | 75PF1220(1)00(2)      | R75PF1220(1)00(2)  |
| 630 | 250 | 0.0027                 | 4.0              | 9.0    | 13.0   | 10.0             | 2,000        | 2,520,000                               | 75PF1270(1)00(2)      | R75PF1270(1)00(2)  |
| 630 | 250 | 0.0033                 | 4.0              | 9.0    | 13.0   | 10.0             | 2,000        | 2,520,000                               | 75PF1330(1)00(2)      | R75PF1330(1)00(2)  |
| 630 | 250 | 0.0039                 | 4.0              | 9.0    | 13.0   | 10.0             | 2,000        | 2,520,000                               | 75PF1390(1)00(2)      | R75PF1390(1)00(2)  |
| 630 | 250 | 0.0047                 | 4.0              | 9.0    | 13.0   | 10.0             | 2,000        | 2,520,000                               | 75PF1470(1)00(2)      | R75PF1470(1)00(2)  |
| 630 | 250 | 0.0056                 | 4.0              | 9.0    | 13.0   | 10.0             | 2,000        | 2,520,000                               | 75PF1560(1)00(2)      | R75PF1560(1)00(2)  |
| 630 | 250 | 0.0068                 | 4.0              | 9.0    | 13.0   | 10.0             | 2,000        | 2,520,000                               | 75PF1680(1)00(2)      | R75PF1680(1)00(2)  |
| 630 | 250 | 0.0082                 | 4.0              | 9.0    | 13.0   | 10.0             | 2,000        | 2,520,000                               | 75PF1820(1)00(2)      | R75PF1820(1)00(2)  |
| 630 | 250 | 0.010                  | 4.0              | 9.0    | 13.0   | 10.0             | 2,000        | 2,520,000                               | 75PF2100(1)30(2)      | R75PF2100(1)30(2)  |
| 630 | 250 | 0.012                  | 4.0              | 9.0    | 13.0   | 10.0             | 2,000        | 2,520,000                               | 75PF2120(1)30(2)      | R75PF2120(1)30(2)  |
| 630 | 250 | 0.015                  | 5.0              | 11.0   | 13.0   | 10.0             | 2,000        | 2,520,000                               | 75PF2150(1)30(2)      | R75PF2150(1)30(2)  |
| 630 | 250 | 0.018                  | 5.0              | 11.0   | 13.0   | 10.0             | 2,000        | 2,520,000                               | 75PF2180(1)30(2)      | R75PF2180(1)30(2)  |
| 630 | 250 | 0.022                  | 6.0              | 12.0   | 13.0   | 10.0             | 2,000        | 2,520,000                               | 75PF2220(1)30(2)      | R75PF2220(1)30(2)  |
| 630 | 250 | 0.027                  | 5.0              | 11.0   | 18.0   | 15.0             | 1,000        | 1,260,000                               | 75PI2270(1)00(2)      | R75PI2270(1)00(2)  |
| 630 | 250 | 0.033                  | 5.0              | 11.0   | 18.0   | 15.0             | 1,000        | 1,260,000                               | 75PI2330(1)00(2)      | R75PI2330(1)00(2)  |
| 630 | 250 | 0.039                  | 5.0              | 11.0   | 18.0   | 15.0             | 1,000        | 1,260,000                               | 75PI2390(1)30(2)      | R75PI2390(1)30(2)  |
| 630 | 250 | 0.047                  | 5.0              | 11.0   | 18.0   | 15.0             | 1,000        | 1,260,000                               | 75PI2470(1)30(2)      | R75PI2470(1)30(2)  |
| 630 | 250 | 0.056                  | 5.0              | 11.0   | 18.0   | 15.0             | 1,000        | 1,260,000                               | 75PI2560(1)30(2)      | R75PI2560(1)30(2)  |
| 630 | 250 | 0.068                  | 6.0              | 12.0   | 18.0   | 15.0             | 1,000        | 1,260,000                               | 75PI2680(1)30(2)      | R75PI2680(1)30(2)  |
| 630 | 250 | 0.082                  | 6.0              | 12.0   | 18.0   | 15.0             | 1,000        | 1,260,000                               | 75PI2820(1)30(2)      | R75PI2820(1)30(2)  |
| 630 | 250 | 0.10                   | 7.5              | 13.5   | 18.0   | 15.0             | 1,000        | 1,260,000                               | 75PI3100(1)30(2)      | R75PI3100(1)30(2)  |
| 630 | 250 | 0.10                   | 9.0              | 12.5   | 18.0   | 15.0             | 1,000        | 1,260,000                               | 75PI3100(1)70(2)      | R75PI3100(1)70(2)  |
| 630 | 250 | 0.12                   | 7.5              | 13.5   | 18.0   | 15.0             | 1,000        | 1,260,000                               | 75PI3120(1)30(2)      | R75PI3120(1)30(2)  |
| 630 | 250 | 0.12                   | 9.0              | 12.5   | 18.0   | 15.0             | 1,000        | 1,260,000                               | 75PI3120(1)70(2)      | R75PI3120(1)70(2)  |
| 630 | 250 | 0.15                   | 8.5              | 14.5   | 18.0   | 15.0             | 1,000        | 1,260,000                               | 75PI3150(1)30(2)      | R75PI3150(1)30(2)  |
| 630 | 250 | 0.15                   | 13.0             | 12.0   | 18.0   | 15.0             | 1,000        | 1,260,000                               | 75PI3150(1)70(2)      | R75PI3150(1)70(2)  |
| 630 | 250 | 0.18                   | 10.0             | 16.0   | 18.0   | 15.0             | 1,000        | 1,260,000                               | 75PI3180(1)30(2)      | R75PI3180(1)30(2)  |
| 630 | 250 | 0.18                   | 13.0             | 12.0   | 18.0   | 15.0             | 1,000        | 1,260,000                               | 75PI3180(1)70(2)      | R75PI3180(1)70(2)  |
| 630 | 250 | 0.22                   | 10.0             | 16.0   | 18.0   | 15.0             | 1,000        | 1,260,000                               | 75PI3220(1)30(2)      | R75PI3220(1)30(2)  |
| 630 | 250 | 0.27                   | 11.0             | 19.0   | 18.0   | 15.0             | 1,000        | 1,260,000                               | 75PI3270(1)30(2)      | R75PI3270(1)30(2)  |
| 630 | 250 | 0.33                   | 11.0             | 19.0   | 18.0   | 15.0             | 1,000        | 1,260,000                               | 75PI3330(1)30(2)      | R75PI3330(1)30(2)  |
| 630 | 250 | 0.082                  | 6.0              | 15.0   | 26.5   | 22.5             | 400          | 504,000                                 | 75PN2820(1)30(2)      | R75PN2820(1)30(2)  |
| 630 | 250 | 0.10                   | 6.0              | 15.0   | 26.5   | 22.5             | 400          | 504,000                                 | 75PN3100(1)30(2)      | R75PN3100(1)30(2)  |
| 630 | 250 | 0.12                   | 6.0              | 15.0   | 26.5   | 22.5             | 400          | 504,000                                 | 75PN3120(1)30(2)      | R75PN3120(1)30(2)  |
| 630 | 250 | 0.15                   | 6.0              | 15.0   | 26.5   | 22.5             | 400          | 504,000                                 | 75PN3150(1)30(2)      | R75PN3150(1)30(2)  |
| 630 | 250 | 0.18                   | 7.0              | 16.0   | 26.5   | 22.5             | 400          | 504,000                                 | 75PN3180(1)30(2)      | R75PN3180(1)30(2)  |
| 630 | 250 | 0.22                   | 7.0              | 16.0   | 26.5   | 22.5             | 400          | 504,000                                 | 75PN3220(1)30(2)      | R75PN3220(1)30(2)  |
| 630 | 250 | 0.27                   | 8.5              | 17.0   | 26.5   | 22.5             | 400          | 504,000                                 | 75PN3270(1)30(2)      | R75PN3270(1)30(2)  |
| 630 | 250 | 0.33                   | 10.0             | 18.5   | 26.5   | 22.5             | 400          | 504,000                                 | 75PN3330(1)30(2)      | R75PN3330(1)30(2)  |
| 630 | 250 | 0.39                   | 10.0             | 18.5   | 26.5   | 22.5             | 400          | 504,000                                 | 75PN3390(1)30(2)      | R75PN3390(1)30(2)  |
| 630 | 250 | 0.47                   | 11.0             | 20.0   | 26.5   | 22.5             | 400          | 504,000                                 | 75PN3470(1)30(2)      | R75PN3470(1)30(2)  |
| 630 | 250 | 0.56                   | 11.0             | 20.0   | 26.5   | 22.5             | 400          | 504,000                                 | 75PN3560(1)30(2)      | R75PN3560(1)30(2)  |
| 630 | 250 | 0.68                   | 13.0             | 22.0   | 26.5   | 22.5             | 400          | 504,000                                 | 75PN3680(1)30(2)      | R75PN3680(1)30(2)  |
| 630 | 250 | 0.39                   | 9.0              | 17.0   | 32.0   | 27.5             | 180          | 226,800                                 | 75PR3390(1)30(2)      | R75PR3390(1)30(2)  |
| 630 | 250 | 0.47                   | 9.0              | 17.0   | 32.0   | 27.5             | 180          | 226,800                                 | 75PR3470(1)40(2)      | R75PR3470(1)40(2)  |
| 630 | 250 | 0.56                   | 11.0             | 20.0   | 32.0   | 27.5             | 180          | 226,800                                 | 75PR3560(1)30(2)      | R75PR3560(1)30(2)  |
| 630 | 250 | 0.68                   | 11.0             | 20.0   | 32.0   | 27.5             | 180          | 226,800                                 | 75PR3680(1)30(2)      | R75PR3680(1)30(2)  |
| 630 | 250 | 0.82                   | 13.0             | 22.0   | 32.0   | 27.5             | 180          | 226,800                                 | 75PR3820(1)30(2)      | R75PR3820(1)30(2)  |
| 630 | 250 | 1.0                    | 13.0             | 22.0   | 32.0   | 27.5             | 180          | 226,800                                 | 75PR4100(1)30(2)      | R75PR4100(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%, M = 20%



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   | 250 | 1.2                    | 14.0             | 28.0   | 32.0   | 27.5             | 180          | 226,800                                 | 75PR4120(1)40(2)      | R75PR4120(1)40(2)  |
| 630   | 250 | 1.5                    | 14.0             | 28.0   | 32.0   | 27.5             | 180          | 226,800                                 | 75PR4150(1)30(2)      | R75PR4150(1)30(2)  |
| 630   | 250 | 1.8                    | 18.0             | 33.0   | 32.0   | 27.5             | 180          | 226,800                                 | 75PR4180(1)30(2)      | R75PR4180(1)30(2)  |
| 630   | 250 | 2.2                    | 18.0             | 33.0   | 32.0   | 27.5             | 180          | 226,800                                 | 75PR4220(1)30(2)      | R75PR4220(1)30(2)  |
| 630   | 250 | 2.7                    | 22.0             | 37.0   | 32.0   | 27.5             | 180          | 226,800                                 | 75PR4270(1)30(2)      | R75PR4270(1)30(2)  |
| 630   | 250 | 3.3                    | 22.0             | 37.0   | 32.0   | 27.5             | 180          | 226,800                                 | 75PR4330(1)30(2)      | R75PR4330(1)30(2)  |
| 630   | 250 | 0.68                   | 11.0             | 22.0   | 41.5   | 37.5             | 90           | 113,400                                 | 75PW3680(1)30(2)      | R75PW3680(1)30(2)  |
| 630   | 250 | 0.82                   | 11.0             | 22.0   | 41.5   | 37.5             | 90           | 113,400                                 | 75PW3820(1)30(2)      | R75PW3820(1)30(2)  |
| 630   | 250 | 1.0                    | 11.0             | 22.0   | 41.5   | 37.5             | 90           | 113,400                                 | 75PW4100(1)30(2)      | R75PW4100(1)30(2)  |
| 630   | 250 | 1.2                    | 13.0             | 24.0   | 41.5   | 37.5             | 90           | 113,400                                 | 75PW4120(1)30(2)      | R75PW4120(1)30(2)  |
| 630   | 250 | 1.5                    | 13.0             | 24.0   | 41.5   | 37.5             | 90           | 113,400                                 | 75PW4150(1)30(2)      | R75PW4150(1)30(2)  |
| 630   | 250 | 1.8                    | 16.0             | 28.5   | 41.5   | 37.5             | 90           | 113,400                                 | 75PW4180(1)30(2)      | R75PW4180(1)30(2)  |
| 630   | 250 | 2.2                    | 16.0             | 28.5   | 41.5   | 37.5             | 90           | 113,400                                 | 75PW4220(1)30(2)      | R75PW4220(1)30(2)  |
| 630   | 250 | 2.7                    | 19.0             | 32.0   | 41.5   | 37.5             | 90           | 113,400                                 | 75PW4270(1)30(2)      | R75PW4270(1)30(2)  |
| 630   | 250 | 3.3                    | 19.0             | 32.0   | 41.5   | 37.5             | 90           | 113,400                                 | 75PW4330(1)30(2)      | R75PW4330(1)30(2)  |
| 630   | 250 | 3.9                    | 19.0             | 32.0   | 41.5   | 37.5             | 90           | 113,400                                 | 75PW4390(1)40(2)      | R75PW4390(1)40(2)  |
| 630   | 250 | 4.7                    | 20.0             | 40.0   | 41.5   | 37.5             | 90           | 113,400                                 | 75PW4470(1)30(2)      | R75PW4470(1)30(2)  |
| 630   | 250 | 5.6                    | 20.0             | 40.0   | 41.5   | 37.5             | 90           | 113,400                                 | 75PW4560(1)40(2)      | R75PW4560(1)40(2)  |
| 630   | 250 | 6.8                    | 24.0             | 44.0   | 41.5   | 37.5             | 90           | 113,400                                 | 75PW4680(1)30(2)      | R75PW4680(1)30(2)  |
| 630   | 250 | 8.2                    | 30.0             | 45.0   | 41.5   | 37.5             | 90           | 113,400                                 | 75PW4820(1)30(2)      | R75PW4820(1)30(2)  |
| 1,000 | 250 | 0.012                  | 5.0              | 11.0   | 18.0   | 15.0             | 2,000        | 4,000,000                               | 75QI2120(1)00(2)      | R75QI2120(1)00(2)  |
| 1,000 | 250 | 0.015                  | 5.0              | 11.0   | 18.0   | 15.0             | 2,000        | 4,000,000                               | 75QI2150(1)00(2)      | R75QI2150(1)00(2)  |
| 1,000 | 250 | 0.018                  | 5.0              | 11.0   | 18.0   | 15.0             | 2,000        | 4,000,000                               | 75QI2180(1)00(2)      | R75QI2180(1)00(2)  |
| 1,000 | 250 | 0.022                  | 5.0              | 11.0   | 18.0   | 15.0             | 2,000        | 4,000,000                               | 75QI2220(1)00(2)      | R75QI2220(1)00(2)  |
| 1,000 | 250 | 0.027                  | 6.0              | 12.0   | 18.0   | 15.0             | 2,000        | 4,000,000                               | 75QI2270(1)00(2)      | R75QI2270(1)00(2)  |
| 1,000 | 250 | 0.033                  | 6.0              | 12.0   | 18.0   | 15.0             | 2,000        | 4,000,000                               | 75QI2330(1)00(2)      | R75QI2330(1)00(2)  |
| 1,000 | 250 | 0.039                  | 7.5              | 13.5   | 18.0   | 15.0             | 2,000        | 4,000,000                               | 75QI2390(1)00(2)      | R75QI2390(1)00(2)  |
| 1,000 | 250 | 0.047                  | 7.5              | 13.5   | 18.0   | 15.0             | 2,000        | 4,000,000                               | 75QI2470(1)00(2)      | R75QI2470(1)00(2)  |
| 1,000 | 250 | 0.047                  | 9.0              | 12.5   | 18.0   | 15.0             | 2,000        | 4,000,000                               | 75QI2470(1)60(2)      | R75QI2470(1)60(2)  |
| 1,000 | 250 | 0.056                  | 8.5              | 14.5   | 18.0   | 15.0             | 2,000        | 4,000,000                               | 75QI2560(1)00(2)      | R75QI2560(1)00(2)  |
| 1,000 | 250 | 0.056                  | 9.0              | 12.5   | 18.0   | 15.0             | 2,000        | 4,000,000                               | 75QI2560(1)60(2)      | R75QI2560(1)60(2)  |
| 1,000 | 250 | 0.068                  | 8.5              | 14.5   | 18.0   | 15.0             | 2,000        | 4,000,000                               | 75QI2680(1)00(2)      | R75QI2680(1)00(2)  |
| 1,000 | 250 | 0.068                  | 13.0             | 12.0   | 18.0   | 15.0             | 2,000        | 4,000,000                               | 75QI2680(1)60(2)      | R75QI2680(1)60(2)  |
| 1,000 | 250 | 0.082                  | 10.0             | 16.0   | 18.0   | 15.0             | 2,000        | 4,000,000                               | 75QI2820(1)00(2)      | R75QI2820(1)00(2)  |
| 1,000 | 250 | 0.10                   | 11.0             | 19.0   | 18.0   | 15.0             | 2,000        | 4,000,000                               | 75QI3100(1)00(2)      | R75QI3100(1)00(2)  |
| 1,000 | 250 | 0.047                  | 6.0              | 15.0   | 26.5   | 22.5             | 600          | 1,200,000                               | 75QN2470(1)00(2)      | R75QN2470(1)00(2)  |
| 1,000 | 250 | 0.056                  | 6.0              | 15.0   | 26.5   | 22.5             | 600          | 1,200,000                               | 75QN2560(1)00(2)      | R75QN2560(1)00(2)  |
| 1,000 | 250 | 0.068                  | 6.0              | 15.0   | 26.5   | 22.5             | 600          | 1,200,000                               | 75QN2680(1)00(2)      | R75QN2680(1)00(2)  |
| 1,000 | 250 | 0.082                  | 7.0              | 16.0   | 26.5   | 22.5             | 600          | 1,200,000                               | 75QN2820(1)00(2)      | R75QN2820(1)00(2)  |
| 1,000 | 250 | 0.10                   | 7.0              | 16.0   | 26.5   | 22.5             | 600          | 1,200,000                               | 75QN3100(1)00(2)      | R75QN3100(1)00(2)  |
| 1,000 | 250 | 0.12                   | 8.5              | 17.0   | 26.5   | 22.5             | 600          | 1,200,000                               | 75QN3120(1)00(2)      | R75QN3120(1)00(2)  |
| 1,000 | 250 | 0.15                   | 10.0             | 18.5   | 26.5   | 22.5             | 600          | 1,200,000                               | 75QN3150(1)00(2)      | R75QN3150(1)00(2)  |
| 1,000 | 250 | 0.18                   | 10.0             | 18.5   | 26.5   | 22.5             | 600          | 1,200,000                               | 75QN3180(1)00(2)      | R75QN3180(1)00(2)  |
| 1,000 | 250 | 0.22                   | 11.0             | 20.0   | 26.5   | 22.5             | 600          | 1,200,000                               | 75QN3220(1)00(2)      | R75QN3220(1)00(2)  |
| 1,000 | 250 | 0.15                   | 9.0              | 17.0   | 32.0   | 27.5             | 200          | 400,000                                 | 75QR3150(1)00(2)      | R75QR3150(1)00(2)  |
| 1,000 | 250 | 0.18                   | 9.0              | 17.0   | 32.0   | 27.5             | 200          | 400,000                                 | 75QR3180(1)00(2)      | R75QR3180(1)00(2)  |
| 1,000 | 250 | 0.22                   | 11.0             | 20.0   | 32.0   | 27.5             | 200          | 400,000                                 | 75QR3220(1)10(2)      | R75QR3220(1)10(2)  |
| 1,000 | 250 | 0.27                   | 11.0             | 20.0   | 32.0   | 27.5             | 200          | 400,000                                 | 75QR3270(1)00(2)      | R75QR3270(1)00(2)  |
| 1,000 | 250 | 0.33                   | 13.0             | 22.0   | 32.0   | 27.5             | 200          | 400,000                                 | 75QR3330(1)00(2)      | R75QR3330(1)00(2)  |
| 1,000 | 250 | 0.39                   | 13.0             | 22.0   | 32.0   | 27.5             | 200          | 400,000                                 | 75QR3390(1)00(2)      | R75QR3390(1)00(2)  |
| 1,000 | 250 | 0.47                   | 13.0             | 25.0   | 32.0   | 27.5             | 200          | 400,000                                 | 75QR3470(1)10(2)      | R75QR3470(1)10(2)  |
| 1,000 | 250 | 0.56                   | 14.0             | 28.0   | 32.0   | 27.5             | 200          | 400,000                                 | 75QR3560(1)10(2)      | R75QR3560(1)10(2)  |
| 1,000 | 250 | 0.68                   | 18.0             | 33.0   | 32.0   | 27.5             | 200          | 400,000                                 | 75QR3680(1)00(2)      | R75QR3680(1)00(2)  |
| 1,000 | 250 | 0.82                   | 18.0             | 33.0   | 32.0   | 27.5             | 200          | 400,000                                 | 75QR3820(1)00(2)      | R75QR3820(1)00(2)  |
| 1,000 | 250 | 1.0                    | 18.0             | 33.0   | 32.0   | 27.5             | 200          | 400,000                                 | 75QR4100(1)00(2)      | R75QR4100(1)00(2)  |
| 1,000 | 250 | 1.2                    | 22.0             | 37.0   | 32.0   | 27.5             | 200          | 400,000                                 | 75QR4120(1)00(2)      | R75QR4120(1)00(2)  |
| 1,000 | 250 | 1.5                    | 22.0             | 37.0   | 32.0   | 27.5             | 200          | 400,000                                 | 75QR4150(1)00(2)      | R75QR4150(1)00(2)  |
| 1,000 | 250 | 0.27                   | 11.0             | 22.0   | 41.5   | 37.5             | 150          | 300,000                                 | 75QW3270(1)00(2)      | R75QW3270(1)00(2)  |
| 1,000 | 250 | 0.33                   | 11.0             | 22.0   | 41.5   | 37.5             | 150          | 300,000                                 | 75QW3330(1)00(2)      | R75QW3330(1)00(2)  |
| 1,000 | 250 | 0.39                   | 11.0             | 22.0   | 41.5   | 37.5             | 150          | 300,000                                 | 75QW3390(1)00(2)      | R75QW3390(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) J = 5%, K = 10%, M = 20%

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 | 250 | 0.47                   | 11.0             | 22.0   | 41.5   | 37.5             | 150          | 300,000                                 | 75QW3470(1)00(2)      | R75QW3470(1)00(2)  |
| 1,000 | 250 | 0.56                   | 13.0             | 24.0   | 41.5   | 37.5             | 150          | 300,000                                 | 75QW3560(1)00(2)      | R75QW3560(1)00(2)  |
| 1,000 | 250 | 0.68                   | 13.0             | 24.0   | 41.5   | 37.5             | 150          | 300,000                                 | 75QW3680(1)00(2)      | R75QW3680(1)00(2)  |
| 1,000 | 250 | 0.82                   | 16.0             | 28.5   | 41.5   | 37.5             | 150          | 300,000                                 | 75QW3820(1)00(2)      | R75QW3820(1)00(2)  |
| 1,000 | 250 | 1.0                    | 16.0             | 28.5   | 41.5   | 37.5             | 150          | 300,000                                 | 75QW4100(1)00(2)      | R75QW4100(1)00(2)  |
| 1,000 | 250 | 1.2                    | 19.0             | 32.0   | 41.5   | 37.5             | 150          | 300,000                                 | 75QW4120(1)00(2)      | R75QW4120(1)00(2)  |
| 1,000 | 250 | 1.5                    | 19.0             | 32.0   | 41.5   | 37.5             | 150          | 300,000                                 | 75QW4150(1)00(2)      | R75QW4150(1)00(2)  |
| 1,000 | 250 | 1.8                    | 20.0             | 40.0   | 41.5   | 37.5             | 150          | 300,000                                 | 75QW4180(1)00(2)      | R75QW4180(1)00(2)  |
| 1,000 | 250 | 2.2                    | 20.0             | 40.0   | 41.5   | 37.5             | 150          | 300,000                                 | 75QW4220(1)00(2)      | R75QW4220(1)00(2)  |
| 1,000 | 250 | 2.7                    | 24.0             | 44.0   | 41.5   | 37.5             | 150          | 300,000                                 | 75QW4270(1)00(2)      | R75QW4270(1)00(2)  |
| 1,000 | 250 | 3.3                    | 30.0             | 45.0   | 41.5   | 37.5             | 150          | 300,000                                 | 75QW4330(1)00(2)      | R75QW4330(1)00(2)  |
| 1,000 | 250 | 3.9                    | 30.0             | 45.0   | 41.5   | 37.5             | 150          | 300,000                                 | 75QW4390(1)00(2)      | R75QW4390(1)00(2)  |
| 1,000 | 400 | 0.00022                | 3.0              | 8.0    | 10.0   | 7.5              | 4,000        | 8,000,000                               | 75QD0220(1)30(2)      | R75QD0220(1)30(2)  |
| 1,000 | 400 | 0.00027                | 3.0              | 8.0    | 10.0   | 7.5              | 4,000        | 8,000,000                               | 75QD0270(1)30(2)      | R75QD0270(1)30(2)  |
| 1,000 | 400 | 0.00033                | 3.0              | 8.0    | 10.0   | 7.5              | 4,000        | 8,000,000                               | 75QD0330(1)30(2)      | R75QD0330(1)30(2)  |
| 1,000 | 400 | 0.00039                | 3.0              | 8.0    | 10.0   | 7.5              | 4,000        | 8,000,000                               | 75QD0390(1)30(2)      | R75QD0390(1)30(2)  |
| 1,000 | 400 | 0.00047                | 3.0              | 8.0    | 10.0   | 7.5              | 4,000        | 8,000,000                               | 75QD0470(1)30(2)      | R75QD0470(1)30(2)  |
| 1,000 | 400 | 0.00056                | 3.0              | 8.0    | 10.0   | 7.5              | 4,000        | 8,000,000                               | 75QD0560(1)30(2)      | R75QD0560(1)30(2)  |
| 1,000 | 400 | 0.00068                | 3.0              | 8.0    | 10.0   | 7.5              | 4,000        | 8,000,000                               | 75QD0680(1)30(2)      | R75QD0680(1)30(2)  |
| 1,000 | 400 | 0.00082                | 3.0              | 8.0    | 10.0   | 7.5              | 4,000        | 8,000,000                               | 75QD0820(1)30(2)      | R75QD0820(1)30(2)  |
| 1,000 | 400 | 0.0010                 | 3.0              | 8.0    | 10.0   | 7.5              | 4,000        | 8,000,000                               | 75QD1100(1)30(2)      | R75QD1100(1)30(2)  |
| 1,000 | 400 | 0.0012                 | 4.0              | 9.0    | 10.0   | 7.5              | 4,000        | 8,000,000                               | 75QD1120(1)30(2)      | R75QD1120(1)30(2)  |
| 1,000 | 400 | 0.0015                 | 4.0              | 9.0    | 10.0   | 7.5              | 4,000        | 8,000,000                               | 75QD1150(1)30(2)      | R75QD1150(1)30(2)  |
| 1,000 | 400 | 0.0018                 | 4.0              | 9.0    | 10.0   | 7.5              | 4,000        | 8,000,000                               | 75QD1180(1)30(2)      | R75QD1180(1)30(2)  |
| 1,000 | 400 | 0.0022                 | 4.0              | 9.0    | 10.0   | 7.5              | 4,000        | 8,000,000                               | 75QD1220(1)30(2)      | R75QD1220(1)30(2)  |
| 1,000 | 400 | 0.0027                 | 4.0              | 9.0    | 10.0   | 7.5              | 4,000        | 8,000,000                               | 75QD1270(1)30(2)      | R75QD1270(1)30(2)  |
| 1,000 | 400 | 0.0033                 | 4.0              | 9.0    | 10.0   | 7.5              | 4,000        | 8,000,000                               | 75QD1330(1)30(2)      | R75QD1330(1)30(2)  |
| 1,000 | 400 | 0.0039                 | 5.0              | 10.5   | 10.0   | 7.5              | 4,000        | 8,000,000                               | 75QD1390(1)30(2)      | R75QD1390(1)30(2)  |
| 1,000 | 400 | 0.0047                 | 5.0              | 10.5   | 10.0   | 7.5              | 4,000        | 8,000,000                               | 75QD1470(1)30(2)      | R75QD1470(1)30(2)  |
| 1,000 | 400 | 0.0056                 | 5.0              | 10.5   | 10.0   | 7.5              | 4,000        | 8,000,000                               | 75QD1560(1)30(2)      | R75QD1560(1)30(2)  |
| 1,000 | 400 | 0.0068                 | 6.0              | 12.0   | 10.5   | 7.5              | 4,000        | 8,000,000                               | 75QD1680(1)30(2)      | R75QD1680(1)30(2)  |
| 1,000 | 400 | 0.0082                 | 6.0              | 12.0   | 10.5   | 7.5              | 4,000        | 8,000,000                               | 75QD1820(1)30(2)      | R75QD1820(1)30(2)  |
| 1,250 | 600 | 0.0082                 | 5.0              | 11.0   | 18.0   | 15.0             | 3,300        | 8,250,000                               | 75RI1820(1)30(2)      | R75RI1820(1)30(2)  |
| 1,250 | 600 | 0.010                  | 5.0              | 11.0   | 18.0   | 15.0             | 3,300        | 8,250,000                               | 75RI2100(1)30(2)      | R75RI2100(1)30(2)  |
| 1,250 | 600 | 0.012                  | 6.0              | 12.0   | 18.0   | 15.0             | 3,300        | 8,250,000                               | 75RI2120(1)30(2)      | R75RI2120(1)30(2)  |
| 1,250 | 600 | 0.015                  | 6.0              | 12.0   | 18.0   | 15.0             | 3,300        | 8,250,000                               | 75RI2150(1)30(2)      | R75RI2150(1)30(2)  |
| 1,250 | 600 | 0.018                  | 7.5              | 13.5   | 18.0   | 15.0             | 3,300        | 8,250,000                               | 75RI2180(1)30(2)      | R75RI2180(1)30(2)  |
| 1,250 | 600 | 0.022                  | 7.5              | 13.5   | 18.0   | 15.0             | 3,300        | 8,250,000                               | 75RI2220(1)30(2)      | R75RI2220(1)30(2)  |
| 1,250 | 600 | 0.022                  | 9.0              | 12.5   | 18.0   | 15.0             | 3,300        | 8,250,000                               | 75RI2220(1)70(2)      | R75RI2220(1)70(2)  |
| 1,250 | 600 | 0.027                  | 8.5              | 14.5   | 18.0   | 15.0             | 3,300        | 8,250,000                               | 75RI2270(1)30(2)      | R75RI2270(1)30(2)  |
| 1,250 | 600 | 0.027                  | 13.0             | 12.0   | 18.0   | 15.0             | 3,300        | 8,250,000                               | 75RI2270(1)70(2)      | R75RI2270(1)70(2)  |
| 1,250 | 600 | 0.033                  | 10.0             | 16.0   | 18.0   | 15.0             | 3,300        | 8,250,000                               | 75RI2330(1)30(2)      | R75RI2330(1)30(2)  |
| 1,250 | 600 | 0.033                  | 13.0             | 12.0   | 18.0   | 15.0             | 3,300        | 8,250,000                               | 75RI2330(1)70(2)      | R75RI2330(1)70(2)  |
| 1,250 | 600 | 0.039                  | 10.0             | 16.0   | 18.0   | 15.0             | 3,300        | 8,250,000                               | 75RI2390(1)30(2)      | R75RI2390(1)30(2)  |
| 1,250 | 600 | 0.047                  | 11.0             | 19.0   | 18.0   | 15.0             | 3,300        | 8,250,000                               | 75RI2470(1)30(2)      | R75RI2470(1)30(2)  |
| 1,250 | 600 | 0.056                  | 11.0             | 19.0   | 18.0   | 15.0             | 3,300        | 8,250,000                               | 75RI2560(1)30(2)      | R75RI2560(1)30(2)  |
| 1,250 | 600 | 0.033                  | 6.0              | 15.0   | 26.5   | 22.5             | 2,100        | 5,250,000                               | 75RN2330(1)30(2)      | R75RN2330(1)30(2)  |
| 1,250 | 600 | 0.039                  | 6.0              | 15.0   | 26.5   | 22.5             | 2,100        | 5,250,000                               | 75RN2390(1)30(2)      | R75RN2390(1)30(2)  |
| 1,250 | 600 | 0.047                  | 7.0              | 16.0   | 26.5   | 22.5             | 2,100        | 5,250,000                               | 75RN2470(1)30(2)      | R75RN2470(1)30(2)  |
| 1,250 | 600 | 0.056                  | 7.0              | 16.0   | 26.5   | 22.5             | 2,100        | 5,250,000                               | 75RN2560(1)30(2)      | R75RN2560(1)30(2)  |
| 1,250 | 600 | 0.068                  | 8.5              | 17.0   | 26.5   | 22.5             | 2,100        | 5,250,000                               | 75RN2680(1)30(2)      | R75RN2680(1)30(2)  |
| 1,250 | 600 | 0.082                  | 10.0             | 18.5   | 26.5   | 22.5             | 2,100        | 5,250,000                               | 75RN2820(1)30(2)      | R75RN2820(1)30(2)  |
| 1,250 | 600 | 0.10                   | 10.0             | 18.5   | 26.5   | 22.5             | 2,100        | 5,250,000                               | 75RN3100(1)30(2)      | R75RN3100(1)30(2)  |
| 1,250 | 600 | 0.12                   | 11.0             | 20.0   | 26.5   | 22.5             | 2,100        | 5,250,000                               | 75RN3120(1)30(2)      | R75RN3120(1)30(2)  |
| 1,250 | 600 | 0.15                   | 13.0             | 22.0   | 26.5   | 22.5             | 2,100        | 5,250,000                               | 75RN3150(1)30(2)      | R75RN3150(1)30(2)  |
| 1,250 | 600 | 0.10                   | 9.0              | 17.0   | 32.0   | 27.5             | 500          | 1,250,000                               | 75RR3100(1)40(2)      | R75RR3100(1)40(2)  |
| 1,250 | 600 | 0.12                   | 9.0              | 17.0   | 32.0   | 27.5             | 500          | 1,250,000                               | 75RR3120(1)40(2)      | R75RR3120(1)40(2)  |
| 1,250 | 600 | 0.15                   | 11.0             | 20.0   | 32.0   | 27.5             | 500          | 1,250,000                               | 75RR3150(1)40(2)      | R75RR3150(1)40(2)  |
| 1,250 | 600 | 0.18                   | 11.0             | 20.0   | 32.0   | 27.5             | 500          | 1,250,000                               | 75RR3180(1)40(2)      | R75RR3180(1)40(2)  |
| 1,250 | 600 | 0.22                   | 13.0             | 22.0   | 32.0   | 27.5             | 500          | 1,250,000                               | 75RR3220(1)40(2)      | R75RR3220(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) J = 5%, K = 10%, M = 20%



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      |                  |              |                                         |                       |                    |
| 1,250 | 600 | 0.27                   | 13.0             | 25.0   | 32.0   | 27.5             | 500          | 1,250,000                               | 75RR3270(1)40(2)      | R75RR3270(1)40(2)  |
| 1,250 | 600 | 0.33                   | 13.0             | 25.0   | 32.0   | 27.5             | 500          | 1,250,000                               | 75RR3330(1)40(2)      | R75RR3330(1)40(2)  |
| 1,250 | 600 | 0.39                   | 18.0             | 33.0   | 32.0   | 27.5             | 500          | 1,250,000                               | 75RR3390(1)40(2)      | R75RR3390(1)40(2)  |
| 1,250 | 600 | 0.47                   | 18.0             | 33.0   | 32.0   | 27.5             | 500          | 1,250,000                               | 75RR3470(1)40(2)      | R75RR3470(1)40(2)  |
| 1,250 | 600 | 0.56                   | 18.0             | 33.0   | 32.0   | 27.5             | 500          | 1,250,000                               | 75RR3560(1)40(2)      | R75RR3560(1)40(2)  |
| 1,250 | 600 | 0.68                   | 22.0             | 37.0   | 32.0   | 27.5             | 500          | 1,250,000                               | 75RR3680(1)40(2)      | R75RR3680(1)40(2)  |
| 1,250 | 600 | 0.82                   | 22.0             | 37.0   | 32.0   | 27.5             | 500          | 1,250,000                               | 75RR3820(1)40(2)      | R75RR3820(1)40(2)  |
| 1,250 | 600 | 0.27                   | 11.0             | 22.0   | 41.5   | 37.5             | 360          | 900,000                                 | 75RW3270(1)30(2)      | R75RW3270(1)30(2)  |
| 1,250 | 600 | 0.33                   | 11.0             | 22.0   | 41.5   | 37.5             | 360          | 900,000                                 | 75RW3330(1)30(2)      | R75RW3330(1)30(2)  |
| 1,250 | 600 | 0.39                   | 13.0             | 24.0   | 41.5   | 37.5             | 360          | 900,000                                 | 75RW3390(1)30(2)      | R75RW3390(1)30(2)  |
| 1,250 | 600 | 0.47                   | 16.0             | 28.5   | 41.5   | 37.5             | 360          | 900,000                                 | 75RW3470(1)40(2)      | R75RW3470(1)40(2)  |
| 1,250 | 600 | 0.56                   | 16.0             | 28.5   | 41.5   | 37.5             | 360          | 900,000                                 | 75RW3560(1)40(2)      | R75RW3560(1)40(2)  |
| 1,250 | 600 | 0.68                   | 16.0             | 28.5   | 41.5   | 37.5             | 360          | 900,000                                 | 75RW3680(1)40(2)      | R75RW3680(1)40(2)  |
| 1,250 | 600 | 0.82                   | 19.0             | 32.0   | 41.5   | 37.5             | 360          | 900,000                                 | 75RW3820(1)40(2)      | R75RW3820(1)40(2)  |
| 1,250 | 600 | 1.0                    | 20.0             | 40.0   | 41.5   | 37.5             | 360          | 900,000                                 | 75RW4100(1)30(2)      | R75RW4100(1)30(2)  |
| 1,250 | 600 | 1.2                    | 20.0             | 40.0   | 41.5   | 37.5             | 360          | 900,000                                 | 75RW4120(1)40(2)      | R75RW4120(1)40(2)  |
| 1,250 | 600 | 1.5                    | 24.0             | 44.0   | 41.5   | 37.5             | 360          | 900,000                                 | 75RW4150(1)40(2)      | R75RW4150(1)40(2)  |
| 1,250 | 600 | 1.8                    | 24.0             | 44.0   | 41.5   | 37.5             | 360          | 900,000                                 | 75RW4180(1)30(2)      | R75RW4180(1)30(2)  |
| 1,250 | 600 | 2.2                    | 30.0             | 45.0   | 41.5   | 37.5             | 360          | 900,000                                 | 75RW4220(1)30(2)      | R75RW4220(1)30(2)  |
| 1,600 | 650 | 0.0039                 | 4.0              | 10.0   | 18.0   | 15.0             | 6,000        | 19,200,000                              | 75TI1390(1)30(2)      | R75TI1390(1)30(2)  |
| 1,600 | 650 | 0.0047                 | 4.0              | 10.0   | 18.0   | 15.0             | 6,000        | 19,200,000                              | 75TI1470(1)30(2)      | R75TI1470(1)30(2)  |
| 1,600 | 650 | 0.0056                 | 5.0              | 11.0   | 18.0   | 15.0             | 6,000        | 19,200,000                              | 75TI1560(1)30(2)      | R75TI1560(1)30(2)  |
| 1,600 | 650 | 0.0068                 | 5.0              | 11.0   | 18.0   | 15.0             | 6,000        | 19,200,000                              | 75TI1680(1)30(2)      | R75TI1680(1)30(2)  |
| 1,600 | 650 | 0.0082                 | 6.0              | 12.0   | 18.0   | 15.0             | 6,000        | 19,200,000                              | 75TI1820(1)30(2)      | R75TI1820(1)30(2)  |
| 1,600 | 650 | 0.010                  | 6.0              | 12.0   | 18.0   | 15.0             | 6,000        | 19,200,000                              | 75TI2100(1)30(2)      | R75TI2100(1)30(2)  |
| 1,600 | 650 | 0.012                  | 7.5              | 13.5   | 18.0   | 15.0             | 6,000        | 19,200,000                              | 75TI2120(1)30(2)      | R75TI2120(1)30(2)  |
| 1,600 | 650 | 0.015                  | 7.5              | 13.5   | 18.0   | 15.0             | 6,000        | 19,200,000                              | 75TI2150(1)30(2)      | R75TI2150(1)30(2)  |
| 1,600 | 650 | 0.018                  | 8.5              | 14.5   | 18.0   | 15.0             | 6,000        | 19,200,000                              | 75TI2180(1)30(2)      | R75TI2180(1)30(2)  |
| 1,600 | 650 | 0.018                  | 9.0              | 12.5   | 18.0   | 15.0             | 6,000        | 19,200,000                              | 75TI2180(1)70(2)      | R75TI2180(1)70(2)  |
| 1,600 | 650 | 0.022                  | 10.0             | 16.0   | 18.0   | 15.0             | 6,000        | 19,200,000                              | 75TI2220(1)30(2)      | R75TI2220(1)30(2)  |
| 1,600 | 650 | 0.022                  | 13.0             | 12.0   | 18.0   | 15.0             | 6,000        | 19,200,000                              | 75TI2220(1)70(2)      | R75TI2220(1)70(2)  |
| 1,600 | 650 | 0.027                  | 10.0             | 16.0   | 18.0   | 15.0             | 6,000        | 19,200,000                              | 75TI2270(1)30(2)      | R75TI2270(1)30(2)  |
| 1,600 | 650 | 0.033                  | 11.0             | 19.0   | 18.0   | 15.0             | 6,000        | 19,200,000                              | 75TI2330(1)30(2)      | R75TI2330(1)30(2)  |
| 1,600 | 650 | 0.027                  | 6.0              | 15.0   | 26.5   | 22.5             | 3,000        | 9,600,000                               | 75TN2270(1)30(2)      | R75TN2270(1)30(2)  |
| 1,600 | 650 | 0.033                  | 7.0              | 16.0   | 26.5   | 22.5             | 3,000        | 9,600,000                               | 75TN2330(1)30(2)      | R75TN2330(1)30(2)  |
| 1,600 | 650 | 0.039                  | 7.0              | 16.0   | 26.5   | 22.5             | 3,000        | 9,600,000                               | 75TN2390(1)30(2)      | R75TN2390(1)30(2)  |
| 1,600 | 650 | 0.047                  | 8.5              | 17.0   | 26.5   | 22.5             | 3,000        | 9,600,000                               | 75TN2470(1)30(2)      | R75TN2470(1)30(2)  |
| 1,600 | 650 | 0.056                  | 10.0             | 18.5   | 26.5   | 22.5             | 3,000        | 9,600,000                               | 75TN2560(1)30(2)      | R75TN2560(1)30(2)  |
| 1,600 | 650 | 0.068                  | 10.0             | 18.5   | 26.5   | 22.5             | 3,000        | 9,600,000                               | 75TN2680(1)30(2)      | R75TN2680(1)30(2)  |
| 1,600 | 650 | 0.082                  | 11.0             | 20.0   | 26.5   | 22.5             | 3,000        | 9,600,000                               | 75TN2820(1)30(2)      | R75TN2820(1)30(2)  |
| 1,600 | 650 | 0.10                   | 13.0             | 22.0   | 26.5   | 22.5             | 3,000        | 9,600,000                               | 75TN3100(1)30(2)      | R75TN3100(1)30(2)  |
| 1,600 | 650 | 0.12                   | 13.0             | 22.0   | 26.5   | 22.5             | 3,000        | 9,600,000                               | 75TN3120(1)30(2)      | R75TN3120(1)30(2)  |
| 1,600 | 650 | 0.068                  | 9.0              | 17.0   | 32.0   | 27.5             | 1,500        | 4,800,000                               | 75TR2680(1)30(2)      | R75TR2680(1)30(2)  |
| 1,600 | 650 | 0.082                  | 9.0              | 17.0   | 32.0   | 27.5             | 1,500        | 4,800,000                               | 75TR2820(1)30(2)      | R75TR2820(1)30(2)  |
| 1,600 | 650 | 0.10                   | 11.0             | 20.0   | 32.0   | 27.5             | 1,500        | 4,800,000                               | 75TR3100(1)40(2)      | R75TR3100(1)40(2)  |
| 1,600 | 650 | 0.12                   | 11.0             | 20.0   | 32.0   | 27.5             | 1,500        | 4,800,000                               | 75TR3120(1)30(2)      | R75TR3120(1)30(2)  |
| 1,600 | 650 | 0.15                   | 13.0             | 22.0   | 32.0   | 27.5             | 1,500        | 4,800,000                               | 75TR3150(1)30(2)      | R75TR3150(1)30(2)  |
| 1,600 | 650 | 0.18                   | 13.0             | 22.0   | 32.0   | 27.5             | 1,500        | 4,800,000                               | 75TR3180(1)30(2)      | R75TR3180(1)30(2)  |
| 1,600 | 650 | 0.22                   | 13.0             | 25.0   | 32.0   | 27.5             | 1,500        | 4,800,000                               | 75TR3220(1)40(2)      | R75TR3220(1)40(2)  |
| 1,600 | 650 | 0.27                   | 18.0             | 33.0   | 32.0   | 27.5             | 1,500        | 4,800,000                               | 75TR3270(1)30(2)      | R75TR3270(1)30(2)  |
| 1,600 | 650 | 0.33                   | 18.0             | 33.0   | 32.0   | 27.5             | 1,500        | 4,800,000                               | 75TR3330(1)30(2)      | R75TR3330(1)30(2)  |
| 1,600 | 650 | 0.39                   | 18.0             | 33.0   | 32.0   | 27.5             | 1,500        | 4,800,000                               | 75TR3390(1)30(2)      | R75TR3390(1)30(2)  |
| 1,600 | 650 | 0.47                   | 22.0             | 37.0   | 32.0   | 27.5             | 1,500        | 4,800,000                               | 75TR3470(1)30(2)      | R75TR3470(1)30(2)  |
| 1,600 | 650 | 0.56                   | 22.0             | 37.0   | 32.0   | 27.5             | 1,500        | 4,800,000                               | 75TR3560(1)30(2)      | R75TR3560(1)30(2)  |
| 1,600 | 650 | 0.18                   | 11.0             | 22.0   | 41.5   | 37.5             | 750          | 2,400,000                               | 75TW3180(1)30(2)      | R75TW3180(1)30(2)  |
| 1,600 | 650 | 0.22                   | 11.0             | 22.0   | 41.5   | 37.5             | 750          | 2,400,000                               | 75TW3220(1)30(2)      | R75TW3220(1)30(2)  |
| 1,600 | 650 | 0.27                   | 13.0             | 24.0   | 41.5   | 37.5             | 750          | 2,400,000                               | 75TW3270(1)30(2)      | R75TW3270(1)30(2)  |
| 1,600 | 650 | 0.33                   | 16.0             | 28.5   | 41.5   | 37.5             | 750          | 2,400,000                               | 75TW3330(1)30(2)      | R75TW3330(1)30(2)  |
| 1,600 | 650 | 0.39                   | 16.0             | 28.5   | 41.5   | 37.5             | 750          | 2,400,000                               | 75TW3390(1)30(2)      | R75TW3390(1)30(2)  |
| 1,600 | 650 | 0.47                   | 16.0             | 28.5   | 41.5   | 37.5             | 750          | 2,400,000                               | 75TW3470(1)30(2)      | R75TW3470(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%, M = 20%

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 | 0.56                   | 19.0             | 32.0   | 41.5   | 37.5             | 750          | 2,400,000                               | 75TW3560(1)30(2)      | R75TW3560(1)30(2)  |
| 1,600 | 650 | 0.68                   | 19.0             | 32.0   | 41.5   | 37.5             | 750          | 2,400,000                               | 75TW3680(1)30(2)      | R75TW3680(1)30(2)  |
| 1,600 | 650 | 0.82                   | 20.0             | 40.0   | 41.5   | 37.5             | 750          | 2,400,000                               | 75TW3820(1)30(2)      | R75TW3820(1)30(2)  |
| 1,600 | 650 | 1.0                    | 24.0             | 44.0   | 41.5   | 37.5             | 750          | 2,400,000                               | 75TW4100(1)30(2)      | R75TW4100(1)30(2)  |
| 1,600 | 650 | 1.2                    | 24.0             | 44.0   | 41.5   | 37.5             | 750          | 2,400,000                               | 75TW4120(1)30(2)      | R75TW4120(1)30(2)  |
| 1,600 | 650 | 1.5                    | 30.0             | 45.0   | 41.5   | 37.5             | 750          | 2,400,000                               | 75TW4150(1)30(2)      | R75TW4150(1)30(2)  |
| 2,000 | 700 | 0.0010                 | 4.0              | 10.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 75UI1100(1)40(2)      | R75UI1100(1)40(2)  |
| 2,000 | 700 | 0.0012                 | 4.0              | 10.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 75UI1120(1)40(2)      | R75UI1120(1)40(2)  |
| 2,000 | 700 | 0.0015                 | 4.0              | 10.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 75UI1150(1)40(2)      | R75UI1150(1)40(2)  |
| 2,000 | 700 | 0.0018                 | 4.0              | 10.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 75UI1180(1)40(2)      | R75UI1180(1)40(2)  |
| 2,000 | 700 | 0.0022                 | 4.0              | 10.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 75UI1220(1)40(2)      | R75UI1220(1)40(2)  |
| 2,000 | 700 | 0.0027                 | 4.0              | 10.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 75UI1270(1)40(2)      | R75UI1270(1)40(2)  |
| 2,000 | 700 | 0.0033                 | 4.0              | 10.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 75UI1330(1)40(2)      | R75UI1330(1)40(2)  |
| 2,000 | 700 | 0.0039                 | 5.0              | 11.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 75UI1390(1)30(2)      | R75UI1390(1)30(2)  |
| 2,000 | 700 | 0.0047                 | 5.0              | 11.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 75UI1470(1)30(2)      | R75UI1470(1)30(2)  |
| 2,000 | 700 | 0.0056                 | 6.0              | 12.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 75UI1560(1)30(2)      | R75UI1560(1)30(2)  |
| 2,000 | 700 | 0.0068                 | 6.0              | 12.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 75UI1680(1)30(2)      | R75UI1680(1)30(2)  |
| 2,000 | 700 | 0.0082                 | 7.5              | 13.5   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 75UI1820(1)30(2)      | R75UI1820(1)30(2)  |
| 2,000 | 700 | 0.010                  | 7.5              | 13.5   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 75UI2100(1)30(2)      | R75UI2100(1)30(2)  |
| 2,000 | 700 | 0.012                  | 8.5              | 14.5   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 75UI2120(1)30(2)      | R75UI2120(1)30(2)  |
| 2,000 | 700 | 0.012                  | 9.0              | 12.5   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 75UI2120(1)70(2)      | R75UI2120(1)70(2)  |
| 2,000 | 700 | 0.015                  | 8.5              | 14.5   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 75UI2150(1)30(2)      | R75UI2150(1)30(2)  |
| 2,000 | 700 | 0.015                  | 13.0             | 12.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 75UI2150(1)70(2)      | R75UI2150(1)70(2)  |
| 2,000 | 700 | 0.018                  | 10.0             | 16.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 75UI2180(1)30(2)      | R75UI2180(1)30(2)  |
| 2,000 | 700 | 0.018                  | 13.0             | 12.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 75UI2180(1)70(2)      | R75UI2180(1)70(2)  |
| 2,000 | 700 | 0.022                  | 11.0             | 19.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 75UI2220(1)30(2)      | R75UI2220(1)30(2)  |
| 2,000 | 700 | 0.027                  | 11.0             | 19.0   | 18.0   | 15.0             | 9,500        | 38,000,000                              | 75UI2270(1)30(2)      | R75UI2270(1)30(2)  |
| 2,000 | 700 | 0.0047                 | 6.0              | 15.0   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 75UN1470(1)30(2)      | R75UN1470(1)30(2)  |
| 2,000 | 700 | 0.0056                 | 6.0              | 15.0   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 75UN1560(1)30(2)      | R75UN1560(1)30(2)  |
| 2,000 | 700 | 0.0068                 | 6.0              | 15.0   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 75UN1680(1)30(2)      | R75UN1680(1)30(2)  |
| 2,000 | 700 | 0.0082                 | 6.0              | 15.0   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 75UN1820(1)30(2)      | R75UN1820(1)30(2)  |
| 2,000 | 700 | 0.010                  | 6.0              | 15.0   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 75UN2100(1)30(2)      | R75UN2100(1)30(2)  |
| 2,000 | 700 | 0.012                  | 6.0              | 15.0   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 75UN2120(1)30(2)      | R75UN2120(1)30(2)  |
| 2,000 | 700 | 0.015                  | 6.0              | 15.0   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 75UN2150(1)30(2)      | R75UN2150(1)30(2)  |
| 2,000 | 700 | 0.018                  | 6.0              | 15.0   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 75UN2180(1)30(2)      | R75UN2180(1)30(2)  |
| 2,000 | 700 | 0.022                  | 6.0              | 15.0   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 75UN2220(1)30(2)      | R75UN2220(1)30(2)  |
| 2,000 | 700 | 0.027                  | 7.0              | 16.0   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 75UN2270(1)30(2)      | R75UN2270(1)30(2)  |
| 2,000 | 700 | 0.033                  | 8.5              | 17.0   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 75UN2330(1)30(2)      | R75UN2330(1)30(2)  |
| 2,000 | 700 | 0.039                  | 10.0             | 18.5   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 75UN2390(1)30(2)      | R75UN2390(1)30(2)  |
| 2,000 | 700 | 0.047                  | 10.0             | 18.5   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 75UN2470(1)30(2)      | R75UN2470(1)30(2)  |
| 2,000 | 700 | 0.056                  | 11.0             | 20.0   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 75UN2560(1)30(2)      | R75UN2560(1)30(2)  |
| 2,000 | 700 | 0.068                  | 13.0             | 22.0   | 26.5   | 22.5             | 3,500        | 14,000,000                              | 75UN2680(1)30(2)      | R75UN2680(1)30(2)  |
| 2,000 | 700 | 0.047                  | 9.0              | 17.0   | 32.0   | 27.5             | 1,000        | 4,000,000                               | 75UR2470(1)30(2)      | R75UR2470(1)30(2)  |
| 2,000 | 700 | 0.056                  | 9.0              | 17.0   | 32.0   | 27.5             | 1,000        | 4,000,000                               | 75UR2560(1)30(2)      | R75UR2560(1)30(2)  |
| 2,000 | 700 | 0.068                  | 9.0              | 17.0   | 32.0   | 27.5             | 1,000        | 4,000,000                               | 75UR2680(1)40(2)      | R75UR2680(1)40(2)  |
| 2,000 | 700 | 0.082                  | 11.0             | 20.0   | 32.0   | 27.5             | 1,000        | 4,000,000                               | 75UR2820(1)40(2)      | R75UR2820(1)40(2)  |
| 2,000 | 700 | 0.10                   | 11.0             | 20.0   | 32.0   | 27.5             | 1,000        | 4,000,000                               | 75UR3100(1)30(2)      | R75UR3100(1)30(2)  |
| 2,000 | 700 | 0.12                   | 13.0             | 22.0   | 32.0   | 27.5             | 1,000        | 4,000,000                               | 75UR3120(1)30(2)      | R75UR3120(1)30(2)  |
| 2,000 | 700 | 0.15                   | 13.0             | 25.0   | 32.0   | 27.5             | 1,000        | 4,000,000                               | 75UR3150(1)40(2)      | R75UR3150(1)40(2)  |
| 2,000 | 700 | 0.18                   | 14.0             | 28.0   | 32.0   | 27.5             | 1,000        | 4,000,000                               | 75UR3180(1)30(2)      | R75UR3180(1)30(2)  |
| 2,000 | 700 | 0.22                   | 14.0             | 28.0   | 32.0   | 27.5             | 1,000        | 4,000,000                               | 75UR3220(1)40(2)      | R75UR3220(1)40(2)  |
| 2,000 | 700 | 0.27                   | 18.0             | 33.0   | 32.0   | 27.5             | 1,000        | 4,000,000                               | 75UR3270(1)30(2)      | R75UR3270(1)30(2)  |
| 2,000 | 700 | 0.33                   | 18.0             | 33.0   | 32.0   | 27.5             | 1,000        | 4,000,000                               | 75UR3330(1)40(2)      | R75UR3330(1)40(2)  |
| 2,000 | 700 | 0.39                   | 22.0             | 37.0   | 32.0   | 27.5             | 1,000        | 4,000,000                               | 75UR3390(1)30(2)      | R75UR3390(1)30(2)  |
| 2,000 | 700 | 0.47                   | 22.0             | 37.0   | 32.0   | 27.5             | 1,000        | 4,000,000                               | 75UR3470(1)40(2)      | R75UR3470(1)40(2)  |
| 2,000 | 700 | 0.15                   | 11.0             | 22.0   | 41.5   | 37.5             | 500          | 2,000,000                               | 75UW3150(1)30(2)      | R75UW3150(1)30(2)  |
| 2,000 | 700 | 0.18                   | 13.0             | 24.0   | 41.5   | 37.5             | 500          | 2,000,000                               | 75UW3180(1)30(2)      | R75UW3180(1)30(2)  |
| 2,000 | 700 | 0.22                   | 13.0             | 24.0   | 41.5   | 37.5             | 500          | 2,000,000                               | 75UW3220(1)30(2)      | R75UW3220(1)30(2)  |
| 2,000 | 700 | 0.27                   | 16.0             | 28.5   | 41.5   | 37.5             | 500          | 2,000,000                               | 75UW3270(1)30(2)      | R75UW3270(1)30(2)  |
| 2,000 | 700 | 0.33                   | 16.0             | 28.5   | 41.5   | 37.5             | 500          | 2,000,000                               | 75UW3330(1)30(2)      | R75UW3330(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%, M = 20%

**Table 1 – Ratings & 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 | 0.39                   | 19.0             | 32.0   | 41.5   | 37.5             | 500          | 2,000,000                               | 75UW3390(1)30(2)      | R75UW3390(1)30(2)  |
| 2,000 | 700 | 0.47                   | 19.0             | 32.0   | 41.5   | 37.5             | 500          | 2,000,000                               | 75UW3470(1)30(2)      | R75UW3470(1)30(2)  |
| 2,000 | 700 | 0.56                   | 20.0             | 40.0   | 41.5   | 37.5             | 500          | 2,000,000                               | 75UW3560(1)40(2)      | R75UW3560(1)40(2)  |
| 2,000 | 700 | 0.68                   | 20.0             | 40.0   | 41.5   | 37.5             | 500          | 2,000,000                               | 75UW3680(1)30(2)      | R75UW3680(1)30(2)  |
| 2,000 | 700 | 0.82                   | 24.0             | 44.0   | 41.5   | 37.5             | 500          | 2,000,000                               | 75UW3820(1)40(2)      | R75UW3820(1)40(2)  |
| 2,000 | 700 | 1.00                   | 24.0             | 44.0   | 41.5   | 37.5             | 500          | 2,000,000                               | 75UW4100(1)30(2)      | R75UW4100(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%, M = 20%

## 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.

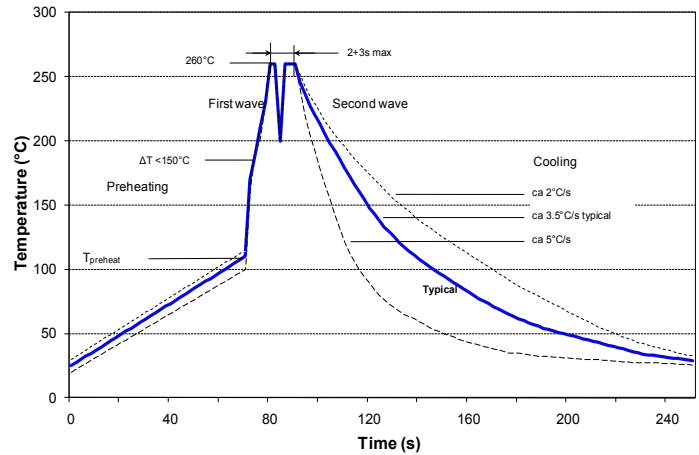
Reflow soldering is not recommended for through-hole film capacitors. Exposing capacitors to a soldering profile in excess of the above the recommended limits may result to degradation or permanent damage to the capacitors.

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**

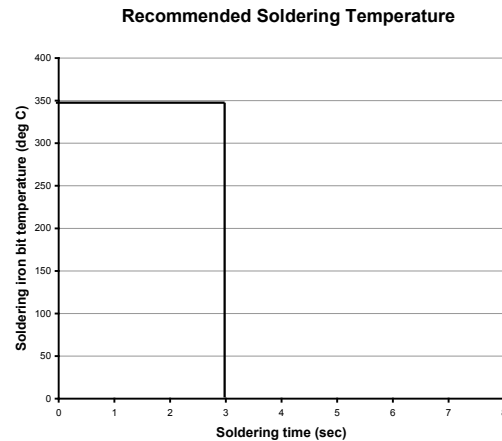
| Dielectric Film Material | Maximum Preheat Temperature   |                                |                               | Maximum Peak Soldering Temperature |                               |
|--------------------------|-------------------------------|--------------------------------|-------------------------------|------------------------------------|-------------------------------|
|                          | Capacitor Lead Spacing <10 mm | Capacitor Lead Spacing = 15 mm | Capacitor Lead Spacing >15 mm | Capacitor Lead Spacing <15 mm      | Capacitor Lead Spacing >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 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

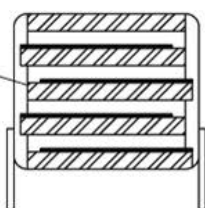
Selective dip soldering is a variation of reflow soldering. In this method, the printed circuit board with through-hole components to be soldered is preheated and transported over the solder bath as in normal flow soldering without touching the solder. When the board is over the bath, it is stopped and 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

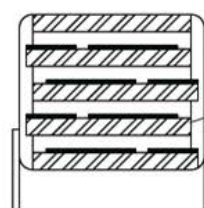
single sided metallized  
polypropylene film

1 section



single sided metallized  
polypropylene film

3 sections



## Marking

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

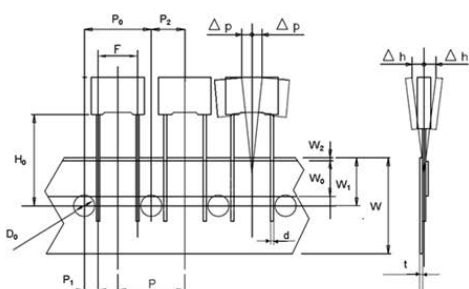
## Packaging Quantities

| 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        |
| 22.5         | 13.0           | 12.0        | 18.0        | 750              | 490             | 200                       | 480                    | 280        |
|              | 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        |
| 27.5         | 13.0           | 22.0        | 26.5        | 300              | 200             |                           | 300                    | -          |
|              | 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             |                           |                        |            |
| 37.5         | 22.0           | 37.0        | 32.0        | 168              | 112             |                           |                        |            |
|              | 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              |                           |                        |            |
| 37.5         | 30.0           | 45.0        | 41.5        | 90               | 60              |                           |                        |            |

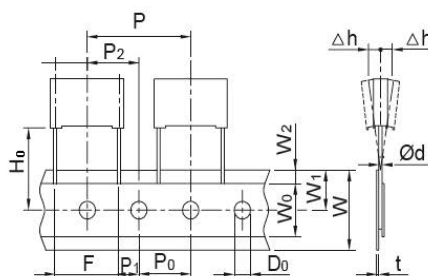


## Lead Taping & Packaging (IEC 60286-2)

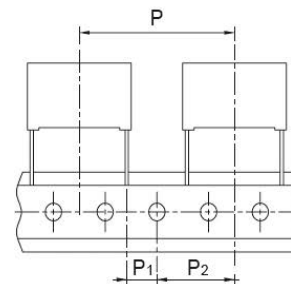
Lead Spacing 7.5 mm



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.

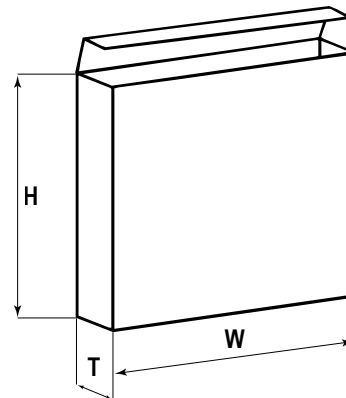
\*\*\* 15 mm and 10 mm taped to 7.5 mm (crimped leads) available upon request.

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

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

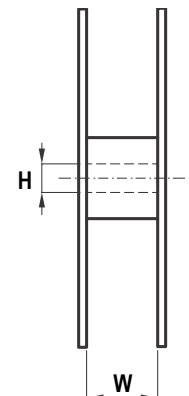
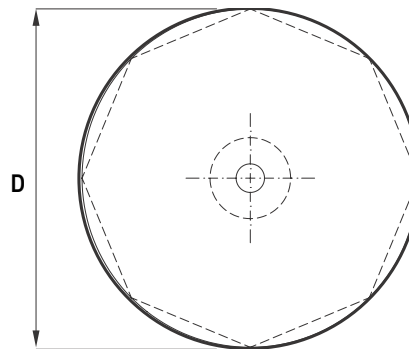
### Ammo Specifications

| 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    |           |      |

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