General Purpose, High Stability and AC Line EMI Suppression

# SMW Series Unencapsulated Winding, Size 2220 – 2824, 50 – 400 VDC

The Capacitance Company
KEMET CHARGED.

## Overview

Polyphenylene sulphide (PPS) film capacitor for surface mounting.

## Applications

Typical applications include timing, filtering and use as a memory capacitor. The SMW Series is designed for high stability, accuracy and temperature.

## Benefits

- Rated voltage: 50 – 400 VDC
- Rated voltage: 30 – 200 VAC
- Capacitance range: 0.001 – 0.56 µF
- EIA size: 2220 – 2824
- Capacitance tolerance: ±2%, ±2.5%, ±5%, ±10%
- Climatic category: 55/125/56
- RoHS Compliant and lead-free terminations
- Operating temperature range of -55˚C to +125˚C


## Legacy Part Number System

| SMW | 5.7 | 102 | K | 50 | J91 | TR12 |
|---|---|---|---|---|---|---|
| Series | Chip Length (mm) | Capacitance Code (pF) | Capacitance Tolerance | Rated Voltage (VDC) | Size Code | Packaging Code |
| Metallized PPS | 5.7<br>7.3 | First two digits indicate the two most significant digits of the capacitance value in picofarads. The third digit is the number of following zeros. | G = ±2%<br>H = ±2.5%<br>J = ±5%<br>K = ±10% | 50<br>100<br>250<br>400 | See Dimension Table | See Ordering Options Table |

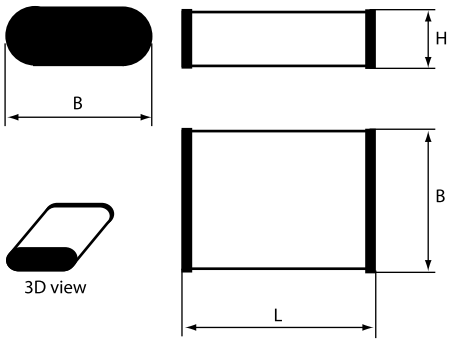
## New KEMET Part Number System

| F | 126 | P | H | 102 | K | 050 | V |
|---|---|---|---|---|---|---|---|
| Capacitor Class | Series | Chip Size | Size Code | Capacitance Code (pF) | Capacitance Tolerance | Rated Voltage (VDC) | Packaging Code |
| F = Film | Metallized PPS | P = 2220<br>S = 2824 | See Dimension Table | First two digits indicate the two most significant digits of the capacitance value in picofarads. The third digit is the number of following zeros. | G = ±2%<br>R = ±2.5%<br>J = ±5%<br>K = ±10% | 050 = 50<br>100 = 100<br>250 = 250<br>400 = 400 | See Ordering Options Table |

## Ordering Options Table

| Packaging Type | KEMET Packaging Code | Legacy Packaging Code |
|---|---|---|
| **Standard Lead and Packaging Options** | | |
| Tape & Reel (Standard Reel) | V | TR12 |
| Bulk (Bag) | A | BULK |

## Dimensions – Millimeters




| KEMET Size Code | Legacy Size Code | Chip Size (EIA) | B | | H | | L | |
|---|---|---|---|---|---|---|---|---|
| | | | Nominal | Tolerance | Nominal | Tolerance | Nominal | Tolerance |
| PH | J91 | 2220 | 5.0 | +/-0.4 | 2.0 | Maximum | 5.7 | +/-0.4 |
| PP | J93 | 2220 | 5.0 | +/-0.4 | 3.0 | Maximum | 5.7 | +/-0.4 |
| PU | J95 | 2220 | 5.0 | +/-0.4 | 4.0 | Maximum | 5.7 | +/-0.4 |
| SE | K91 | 2824 | 6.0 | +/-0.4 | 2.0 | Maximum | 7.3 | +/-0.4 |
| SH | K93 | 2824 | 6.0 | +/-0.4 | 2.7 | Maximum | 7.3 | +/-0.4 |
| SM | K95 | 2824 | 6.0 | +/-0.4 | 3.2 | Maximum | 7.3 | +/-0.4 |
| SS | K97 | 2824 | 6.0 | +/-0.4 | 4.2 | Maximum | 7.3 | +/-0.4 |

## Environmental Compliance

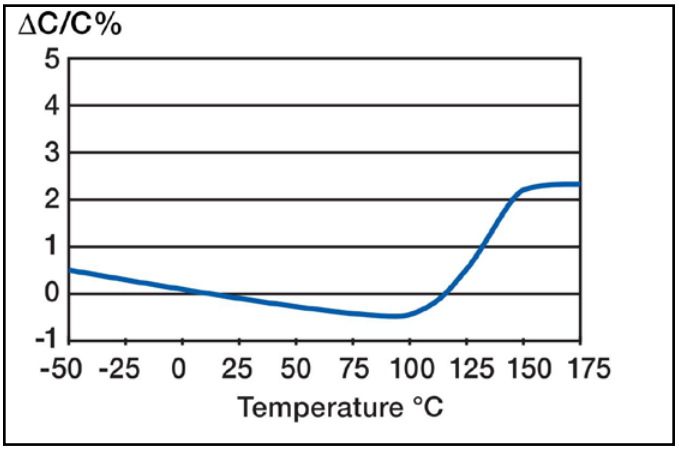
All KEMET surface mount capacitors are RoHS Compliant.

RoHS Compliant

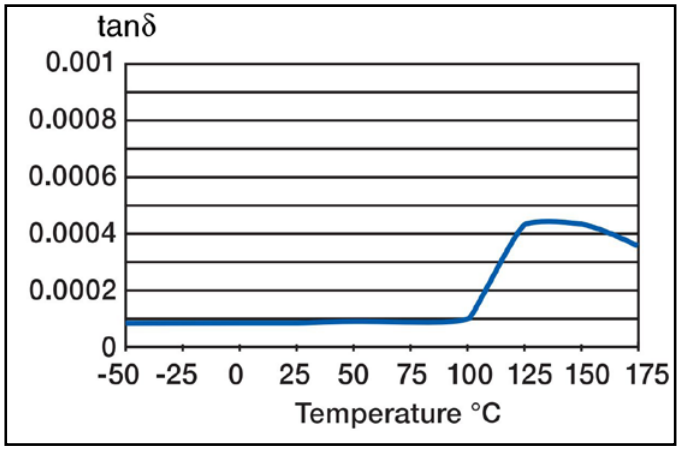
## Performance Characteristics

| | | | | |
|---|---|---|---|---|
| Rated Voltage (VDC) | 50 | 100 | 250 | 400 |
| Rated Voltage (VAC) | 30 | 63 | 160 | 200 |
| Capacitance Range (µF) | 0.001 – 0.56 | 0.001 – 0.18 | 0.001 – 0.068 | 0.001 – 0.022 |
| Chip Size (EIA) | 2220 – 2824 | | | |
| Capacitance Tolerance | ±2%, ±2.5%, ±5%, ±10% | | | |
| Category Temperature Range | -55°C to +125°C | | | |
| Rated Temperature | +100°C | | | |
| Voltage Derating | The rated voltage should be decreased with 1.25%/°C from +100°C to +125°C and 1.5%/°C from +125°C to 175°C | | | |
| Climatic Category | 55/125/56 | | | |
| Test Voltage | 1.6 x $V_R$, 60 seconds | | | |
| Insulation Resistance | Measured at +20°C According to IEC 60384–20 | | | |
| | Minimum Value Between Terminals | | | |
| | | | C ≤ 0.56 µF | |
| | $V_R$ ≤ 100 | | 15,000 MΩ | |
| | $V_R$ > 100 | | 30,000 MΩ | |
| Dissipation Factor | Maximum Values at +23°C | | | |
| | | C ≤ 0.1 µF | | 0.1 < C ≤ 0.56 µF |
| | 1 kHz | 0.15% | | 0.15% |
| | 10 kHz | 0.25% | | 0.25% |
| | 100 kHz | 0.50% | | 0.60% |
| Pulse Rise Time | The capacitors can withstand an unlimited number of pulses with a dV/dt according to Table 1. For voltages (V) lower than the rated voltage ($V_R$), the specified dV/dt can be multiplied by $V_R$/V. | | | |

## Capacitance vs. Temperature




## Dissipation Factor vs. Temperature



## Table 1 – Ratings & Part Number Reference

| VDC | VAC | Capacitance Value (µF) | Size Code (New/Legacy) | Dimensions in mm | | | Chip Size | dV/dt (V/µs) | New KEMET Part Number | Legacy Part Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | B | H | L | | | | |
| 50 | 30 | 0.0010 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH102(1)050(2) | SMW5.7102(1)50J91(2) |
| 50 | 30 | 0.0012 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH122(1)050(2) | SMW5.7122(1)50J91(2) |
| 50 | 30 | 0.0015 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH152(1)050(2) | SMW5.7152(1)50J91(2) |
| 50 | 30 | 0.0018 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH182(1)050(2) | SMW5.7182(1)50J91(2) |
| 50 | 30 | 0.0022 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH222(1)050(2) | SMW5.7222(1)50J91(2) |
| 50 | 30 | 0.0027 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH272(1)050(2) | SMW5.7272(1)50J91(2) |
| 50 | 30 | 0.0033 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH332(1)050(2) | SMW5.7332(1)50J91(2) |
| 50 | 30 | 0.0039 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH392(1)050(2) | SMW5.7392(1)50J91(2) |
| 50 | 30 | 0.0047 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH472(1)050(2) | SMW5.7472(1)50J91(2) |
| 50 | 30 | 0.0056 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH562(1)050(2) | SMW5.7562(1)50J91(2) |
| 50 | 30 | 0.0068 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH682(1)050(2) | SMW5.7682(1)50J91(2) |
| 50 | 30 | 0.0082 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH822(1)050(2) | SMW5.7822(1)50J91(2) |
| 50 | 30 | 0.010 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH103(1)050(2) | SMW5.7103(1)50J91(2) |
| 50 | 30 | 0.012 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH123(1)050(2) | SMW5.7123(1)50J91(2) |
| 50 | 30 | 0.015 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH153(1)050(2) | SMW5.7153(1)50J91(2) |
| 50 | 30 | 0.018 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 15 | F126PH183(1)050(2) | SMW5.7183(1)50J91(2) |
| 50 | 30 | 0.022 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 15 | F126PH223(1)050(2) | SMW5.7223(1)50J91(2) |
| 50 | 30 | 0.027 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 15 | F126PH273(1)050(2) | SMW5.7273(1)50J91(2) |
| 50 | 30 | 0.033 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 15 | F126PH333(1)050(2) | SMW5.7333(1)50J91(2) |
| 50 | 30 | 0.039 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 15 | F126PH393(1)050(2) | SMW5.7393(1)50J91(2) |
| 50 | 30 | 0.047 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 15 | F126PH473(1)050(2) | SMW5.7473(1)50J91(2) |
| 50 | 30 | 0.056 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 15 | F126PH563(1)050(2) | SMW5.7563(1)50J91(2) |
| 50 | 30 | 0.068 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 15 | F126PH683(1)050(2) | SMW5.7683(1)50J91(2) |
| 50 | 30 | 0.082 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 10 | F126PH823(1)050(2) | SMW5.7823(1)50J91(2) |
| 50 | 30 | 0.10 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 10 | F126PH104(1)050(2) | SMW5.7104(1)50J91(2) |
| 50 | 30 | 0.12 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 10 | F126PH124(1)050(2) | SMW5.7124(1)50J91(2) |
| 50 | 30 | 0.15 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 10 | F126PH154(1)050(2) | SMW5.7154(1)50J91(2) |
| 50 | 30 | 0.18 | PP/J93 | 5.0 | 3.0 | 5.7 | 2220 | 10 | F126PP184(1)050(2) | SMW5.7184(1)50J93(2) |
| 50 | 30 | 0.22 | PP/J93 | 5.0 | 3.0 | 5.7 | 2220 | 10 | F126PP224(1)050(2) | SMW5.7224(1)50J93(2) |
| 50 | 30 | 0.27 | PP/J93 | 5.0 | 3.0 | 5.7 | 2220 | 10 | F126PP274(1)050(2) | SMW5.7274(1)50J93(2) |
| 50 | 30 | 0.33 | PU/J95 | 5.0 | 4.0 | 5.7 | 2220 | 10 | F126PU334(1)050(2) | SMW5.7334(1)50J95(2) |
| 50 | 30 | 0.0022 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE222(1)050(2) | SMW7.3222(1)50K91(2) |
| 50 | 30 | 0.0027 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE272(1)050(2) | SMW7.3272(1)50K91(2) |
| 50 | 30 | 0.0033 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE332(1)050(2) | SMW7.3332(1)50K91(2) |
| 50 | 30 | 0.0039 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE392(1)050(2) | SMW7.3392(1)50K91(2) |
| 50 | 30 | 0.0047 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE472(1)050(2) | SMW7.3472(1)50K91(2) |
| 50 | 30 | 0.0056 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE562(1)050(2) | SMW7.3562(1)50K91(2) |
| 50 | 30 | 0.0068 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE682(1)050(2) | SMW7.3682(1)50K91(2) |
| 50 | 30 | 0.0082 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE822(1)050(2) | SMW7.3822(1)50K91(2) |
| 50 | 30 | 0.010 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE103(1)050(2) | SMW7.3103(1)50K91(2) |
| 50 | 30 | 0.012 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE123(1)050(2) | SMW7.3123(1)50K91(2) |
| 50 | 30 | 0.015 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE153(1)050(2) | SMW7.3153(1)50K91(2) |
| 50 | 30 | 0.018 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE183(1)050(2) | SMW7.3183(1)50K91(2) |
| 50 | 30 | 0.022 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE223(1)050(2) | SMW7.3223(1)50K91(2) |
| 50 | 30 | 0.027 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 15 | F126SE273(1)050(2) | SMW7.3273(1)50K91(2) |
| 50 | 30 | 0.033 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 15 | F126SE333(1)050(2) | SMW7.3333(1)50K91(2) |
| 50 | 30 | 0.039 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 15 | F126SE393(1)050(2) | SMW7.3393(1)50K91(2) |
| 50 | 30 | 0.047 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 15 | F126SE473(1)050(2) | SMW7.3473(1)50K91(2) |
| 50 | 30 | 0.056 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 15 | F126SE563(1)050(2) | SMW7.3563(1)50K91(2) |
| 50 | 30 | 0.068 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 15 | F126SE683(1)050(2) | SMW7.3683(1)50K91(2) |
| 50 | 30 | 0.082 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 8 | F126SE823(1)050(2) | SMW7.3823(1)50K91(2) |
| 50 | 30 | 0.10 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 8 | F126SE104(1)050(2) | SMW7.3104(1)50K91(2) |
| 50 | 30 | 0.12 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 8 | F126SE124(1)050(2) | SMW7.3124(1)50K91(2) |
| 50 | 30 | 0.15 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 8 | F126SE154(1)050(2) | SMW7.3154(1)50K91(2) |
| 50 | 30 | 0.18 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 8 | F126SE184(1)050(2) | SMW7.3184(1)50K91(2) |
| 50 | 30 | 0.22 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 8 | F126SE224(1)050(2) | SMW7.3224(1)50K91(2) |
| 50 | 30 | 0.27 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 8 | F126SE274(1)050(2) | SMW7.3274(1)50K91(2) |
| 50 | 30 | 0.33 | SH/K93 | 6.0 | 2.7 | 7.3 | 2824 | 8 | F126SH334(1)050(2) | SMW7.3334(1)50K93(2) |
| 50 | 30 | 0.39 | SM/K95 | 6.0 | 3.2 | 7.3 | 2824 | 8 | F126SM394(1)050(2) | SMW7.3394(1)50K95(2) |
| VDC | VAC | Capacitance Value (µF) | Size Code (New/Legacy) | B (mm) | H (mm) | L (mm) | Chip Size | dV/dt (V/µs) | New KEMET Part Number | Legacy Part Number |

*(1) G = ±2%, R = ±2.5% (Legacy code = H), J = ±5%, K = ±10%.*

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

## Table 1 – Ratings & Part Number Reference cont'd

| VDC | VAC | Capacitance Value (µF) | Size Code (New/Legacy) | Dimensions in mm | | | Chip Size | dV/dt (V/µs) | New KEMET Part Number | Legacy Part Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | B | H | L | | | | |
| 50 | 30 | 0.47 | SM/K95 | 6.0 | 3.2 | 7.3 | 2824 | 8 | F126SM474(1)050(2) | SMW7.3474(1)50K95(2) |
| 50 | 30 | 0.56 | SS/K97 | 6.0 | 4.2 | 7.3 | 2824 | 8 | F126SS564(1)050(2) | SMW7.3564(1)50K97(2) |
| 100 | 63 | 0.0010 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH102(1)100(2) | SMW5.7102(1)100J91(2) |
| 100 | 63 | 0.0012 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH122(1)100(2) | SMW5.7122(1)100J91(2) |
| 100 | 63 | 0.0015 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH152(1)100(2) | SMW5.7152(1)100J91(2) |
| 100 | 63 | 0.0018 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH182(1)100(2) | SMW5.7182(1)100J91(2) |
| 100 | 63 | 0.0022 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH222(1)100(2) | SMW5.7222(1)100J91(2) |
| 100 | 63 | 0.0027 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH272(1)100(2) | SMW5.7272(1)100J91(2) |
| 100 | 63 | 0.0033 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH332(1)100(2) | SMW5.7332(1)100J91(2) |
| 100 | 63 | 0.0039 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH392(1)100(2) | SMW5.7392(1)100J91(2) |
| 100 | 63 | 0.0047 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH472(1)100(2) | SMW5.7472(1)100J91(2) |
| 100 | 63 | 0.0056 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH562(1)100(2) | SMW5.7562(1)100J91(2) |
| 100 | 63 | 0.0068 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH682(1)100(2) | SMW5.7682(1)100J91(2) |
| 100 | 63 | 0.0082 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH822(1)100(2) | SMW5.7822(1)100J91(2) |
| 100 | 63 | 0.010 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH103(1)100(2) | SMW5.7103(1)100J91(2) |
| 100 | 63 | 0.012 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH123(1)100(2) | SMW5.7123(1)100J91(2) |
| 100 | 63 | 0.015 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH153(1)100(2) | SMW5.7153(1)100J91(2) |
| 100 | 63 | 0.018 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 15 | F126PH183(1)100(2) | SMW5.7183(1)100J91(2) |
| 100 | 63 | 0.022 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 15 | F126PH223(1)100(2) | SMW5.7223(1)100J91(2) |
| 100 | 63 | 0.027 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 15 | F126PH273(1)100(2) | SMW5.7273(1)100J91(2) |
| 100 | 63 | 0.033 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 15 | F126PH333(1)100(2) | SMW5.7333(1)100J91(2) |
| 100 | 63 | 0.039 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 15 | F126PH393(1)100(2) | SMW5.7393(1)100J91(2) |
| 100 | 63 | 0.047 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 15 | F126PH473(1)100(2) | SMW5.7473(1)100J91(2) |
| 100 | 63 | 0.056 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 15 | F126PH563(1)100(2) | SMW5.7563(1)100J91(2) |
| 100 | 63 | 0.068 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 15 | F126PH683(1)100(2) | SMW5.7683(1)100J91(2) |
| 100 | 63 | 0.082 | PP/J93 | 5.0 | 3.0 | 5.7 | 2220 | 15 | F126PP823(1)100(2) | SMW5.7823(1)100J93(2) |
| 100 | 63 | 0.10 | PP/J93 | 5.0 | 3.0 | 5.7 | 2220 | 15 | F126PP104(1)100(2) | SMW5.7104(1)100J93(2) |
| 100 | 63 | 0.12 | PU/J95 | 5.0 | 4.0 | 5.7 | 2220 | 15 | F126PU124(1)100(2) | SMW5.7124(1)100J95(2) |
| 100 | 63 | 0.15 | PU/J95 | 5.0 | 4.0 | 5.7 | 2220 | 15 | F126PU154(1)100(2) | SMW5.7154(1)100J95(2) |
| 100 | 63 | 0.0022 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE222(1)100(2) | SMW7.3222(1)100K91(2) |
| 100 | 63 | 0.0027 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE272(1)100(2) | SMW7.3272(1)100K91(2) |
| 100 | 63 | 0.0033 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE332(1)100(2) | SMW7.3332(1)100K91(2) |
| 100 | 63 | 0.0039 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE392(1)100(2) | SMW7.3392(1)100K91(2) |
| 100 | 63 | 0.0047 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE472(1)100(2) | SMW7.3472(1)100K91(2) |
| 100 | 63 | 0.0056 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE562(1)100(2) | SMW7.3562(1)100K91(2) |
| 100 | 63 | 0.0068 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE682(1)100(2) | SMW7.3682(1)100K91(2) |
| 100 | 63 | 0.0082 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE822(1)100(2) | SMW7.3822(1)100K91(2) |
| 100 | 63 | 0.010 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE103(1)100(2) | SMW7.3103(1)100K91(2) |
| 100 | 63 | 0.012 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE123(1)100(2) | SMW7.3123(1)100K91(2) |
| 100 | 63 | 0.015 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE153(1)100(2) | SMW7.3153(1)100K91(2) |
| 100 | 63 | 0.018 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE183(1)100(2) | SMW7.3183(1)100K91(2) |
| 100 | 63 | 0.022 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE223(1)100(2) | SMW7.3223(1)100K91(2) |
| 100 | 63 | 0.027 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 15 | F126SE273(1)100(2) | SMW7.3273(1)100K91(2) |
| 100 | 63 | 0.033 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 15 | F126SE333(1)100(2) | SMW7.3333(1)100K91(2) |
| 100 | 63 | 0.039 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 15 | F126SE393(1)100(2) | SMW7.3393(1)100K91(2) |
| 100 | 63 | 0.047 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 15 | F126SE473(1)100(2) | SMW7.3473(1)100K91(2) |
| 100 | 63 | 0.056 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 15 | F126SE563(1)100(2) | SMW7.3563(1)100K91(2) |
| 100 | 63 | 0.068 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 15 | F126SE683(1)100(2) | SMW7.3683(1)100K91(2) |
| 100 | 63 | 0.082 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 15 | F126SE823(1)100(2) | SMW7.3823(1)100K91(2) |
| 100 | 63 | 0.10 | SH/K93 | 6.0 | 2.7 | 7.3 | 2824 | 15 | F126SH104(1)100(2) | SMW7.3104(1)100K93(2) |
| 100 | 63 | 0.12 | SH/K93 | 6.0 | 2.7 | 7.3 | 2824 | 15 | F126SH124(1)100(2) | SMW7.3124(1)100K93(2) |
| 100 | 63 | 0.15 | SM/K95 | 6.0 | 3.2 | 7.3 | 2824 | 15 | F126SM154(1)100(2) | SMW7.3154(1)100K95(2) |
| 100 | 63 | 0.18 | SS/K97 | 6.0 | 4.2 | 7.3 | 2824 | 15 | F126SS184(1)100(2) | SMW7.3184(1)100K97(2) |
| 250 | 160 | 0.0010 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH102(1)250(2) | SMW5.7102(1)250J91(2) |
| 250 | 160 | 0.0012 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH122(1)250(2) | SMW5.7122(1)250J91(2) |
| 250 | 160 | 0.0015 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH152(1)250(2) | SMW5.7152(1)250J91(2) |
| 250 | 160 | 0.0018 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH182(1)250(2) | SMW5.7182(1)250J91(2) |
| 250 | 160 | 0.0022 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH222(1)250(2) | SMW5.7222(1)250J91(2) |
| 250 | 160 | 0.0027 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH272(1)250(2) | SMW5.7272(1)250J91(2) |
| VDC | VAC | Capacitance Value (µF) | Size Code (New/Legacy) | B (mm) | H (mm) | L (mm) | Chip Size | dV/dt (V/µs) | New KEMET Part Number | Legacy Part Number |

*(1) G = ±2%, R = ±2.5% (Legacy code = H), J = ±5%, K = ±10%.*

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



Roll Over for Order Info.

## Table 1 – Ratings & Part Number Reference cont'd

| VDC | VAC | Capacitance Value (µF) | Size Code (New/Legacy) | Dimensions in mm | | | Chip Size | dV/dt (V/µs) | New KEMET Part Number | Legacy Part Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | B | H | L | | | | |
| 250 | 160 | 0.0033 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH332(1)250(2) | SMW5.7332(1)250J91(2) |
| 250 | 160 | 0.0039 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH392(1)250(2) | SMW5.7392(1)250J91(2) |
| 250 | 160 | 0.0047 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH472(1)250(2) | SMW5.7472(1)250J91(2) |
| 250 | 160 | 0.0056 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH562(1)250(2) | SMW5.7562(1)250J91(2) |
| 250 | 160 | 0.0068 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH682(1)250(2) | SMW5.7682(1)250J91(2) |
| 250 | 160 | 0.0082 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH822(1)250(2) | SMW5.7822(1)250J91(2) |
| 250 | 160 | 0.010 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH103(1)250(2) | SMW5.7103(1)250J91(2) |
| 250 | 160 | 0.012 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH123(1)250(2) | SMW5.7123(1)250J91(2) |
| 250 | 160 | 0.015 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH153(1)250(2) | SMW5.7153(1)250J91(2) |
| 250 | 160 | 0.018 | PP/J93 | 5.0 | 3.0 | 5.7 | 2220 | 20 | F126PP183(1)250(2) | SMW5.7183(1)250J93(2) |
| 250 | 160 | 0.022 | PP/J93 | 5.0 | 3.0 | 5.7 | 2220 | 20 | F126PP223(1)250(2) | SMW5.7223(1)250J93(2) |
| 250 | 160 | 0.027 | PP/J93 | 5.0 | 3.0 | 5.7 | 2220 | 20 | F126PP273(1)250(2) | SMW5.7273(1)250J93(2) |
| 250 | 160 | 0.033 | PU/J95 | 5.0 | 4.0 | 5.7 | 2220 | 20 | F126PU333(1)250(2) | SMW5.7333(1)250J95(2) |
| 250 | 160 | 0.0022 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE222(1)250(2) | SMW7.3222(1)250K91(2) |
| 250 | 160 | 0.0027 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE272(1)250(2) | SMW7.3272(1)250K91(2) |
| 250 | 160 | 0.0033 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE332(1)250(2) | SMW7.3332(1)250K91(2) |
| 250 | 160 | 0.0039 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE392(1)250(2) | SMW7.3392(1)250K91(2) |
| 250 | 160 | 0.0047 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE472(1)250(2) | SMW7.3472(1)250K91(2) |
| 250 | 160 | 0.0056 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE562(1)250(2) | SMW7.3562(1)250K91(2) |
| 250 | 160 | 0.0068 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE682(1)250(2) | SMW7.3682(1)250K91(2) |
| 250 | 160 | 0.0082 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE822(1)250(2) | SMW7.3822(1)250K91(2) |
| 250 | 160 | 0.010 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE103(1)250(2) | SMW7.3103(1)250K91(2) |
| 250 | 160 | 0.012 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE123(1)250(2) | SMW7.3123(1)250K91(2) |
| 250 | 160 | 0.015 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE153(1)250(2) | SMW7.3153(1)250K91(2) |
| 250 | 160 | 0.018 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE183(1)250(2) | SMW7.3183(1)250K91(2) |
| 250 | 160 | 0.022 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE223(1)250(2) | SMW7.3223(1)250K91(2) |
| 250 | 160 | 0.027 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 15 | F126SE273(1)250(2) | SMW7.3273(1)250K91(2) |
| 250 | 160 | 0.033 | SH/K93 | 6.0 | 2.7 | 7.3 | 2824 | 15 | F126SH333(1)250(2) | SMW7.3333(1)250K93(2) |
| 250 | 160 | 0.039 | SH/K93 | 6.0 | 2.7 | 7.3 | 2824 | 15 | F126SH393(1)250(2) | SMW7.3393(1)250K93(2) |
| 250 | 160 | 0.047 | SM/K95 | 6.0 | 3.2 | 7.3 | 2824 | 15 | F126SM473(1)250(2) | SMW7.3473(1)250K95(2) |
| 250 | 160 | 0.056 | SS/K97 | 6.0 | 4.2 | 7.3 | 2824 | 15 | F126SS563(1)250(2) | SMW7.3563(1)250K97(2) |
| 250 | 160 | 0.068 | SS/K97 | 6.0 | 4.2 | 7.3 | 2824 | 15 | F126SS683(1)250(2) | SMW7.3683(1)250K97(2) |
| 400 | 200 | 0.0010 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH102(1)400(2) | SMW5.7102(1)400J91(2) |
| 400 | 200 | 0.0012 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH122(1)400(2) | SMW5.7122(1)400J91(2) |
| 400 | 200 | 0.0015 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH152(1)400(2) | SMW5.7152(1)400J91(2) |
| 400 | 200 | 0.0018 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH182(1)400(2) | SMW5.7182(1)400J91(2) |
| 400 | 200 | 0.0022 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH222(1)400(2) | SMW5.7222(1)400J91(2) |
| 400 | 200 | 0.0027 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH272(1)400(2) | SMW5.7272(1)400J91(2) |
| 400 | 200 | 0.0033 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH332(1)400(2) | SMW5.7332(1)400J91(2) |
| 400 | 200 | 0.0039 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH392(1)400(2) | SMW5.7392(1)400J91(2) |
| 400 | 200 | 0.0047 | PH/J91 | 5.0 | 2.0 | 5.7 | 2220 | 20 | F126PH472(1)400(2) | SMW5.7472(1)400J91(2) |
| 400 | 200 | 0.0056 | PP/J93 | 5.0 | 3.0 | 5.7 | 2220 | 20 | F126PP562(1)400(2) | SMW5.7562(1)400J93(2) |
| 400 | 200 | 0.0068 | PP/J93 | 5.0 | 3.0 | 5.7 | 2220 | 20 | F126PP682(1)400(2) | SMW5.7682(1)400J93(2) |
| 400 | 200 | 0.0082 | PP/J93 | 5.0 | 3.0 | 5.7 | 2220 | 20 | F126PP822(1)400(2) | SMW5.7822(1)400J93(2) |
| 400 | 200 | 0.010 | PP/J93 | 5.0 | 3.0 | 5.7 | 2220 | 20 | F126PP103(1)400(2) | SMW5.7103(1)400J93(2) |
| 400 | 200 | 0.012 | PU/J95 | 5.0 | 4.0 | 5.7 | 2220 | 20 | F126PU123(1)400(2) | SMW5.7123(1)400J95(2) |
| 400 | 200 | 0.015 | PU/J95 | 5.0 | 4.0 | 5.7 | 2220 | 20 | F126PU153(1)400(2) | SMW5.7153(1)400J95(2) |
| 400 | 200 | 0.0022 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE222(1)400(2) | SMW7.3222(1)400K91(2) |
| 400 | 200 | 0.0027 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE272(1)400(2) | SMW7.3272(1)400K91(2) |
| 400 | 200 | 0.0033 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE332(1)400(2) | SMW7.3332(1)400K91(2) |
| 400 | 200 | 0.0039 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE392(1)400(2) | SMW7.3392(1)400K91(2) |
| 400 | 200 | 0.0047 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE472(1)400(2) | SMW7.3472(1)400K91(2) |
| 400 | 200 | 0.0056 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE562(1)400(2) | SMW7.3562(1)400K91(2) |
| 400 | 200 | 0.0068 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE682(1)400(2) | SMW7.3682(1)400K91(2) |
| 400 | 200 | 0.0082 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE822(1)400(2) | SMW7.3822(1)400K91(2) |
| 400 | 200 | 0.010 | SE/K91 | 6.0 | 2.0 | 7.3 | 2824 | 20 | F126SE103(1)400(2) | SMW7.3103(1)400K91(2) |
| 400 | 200 | 0.012 | SH/K93 | 6.0 | 2.7 | 7.3 | 2824 | 20 | F126SH123(1)400(2) | SMW7.3123(1)400K93(2) |
| 400 | 200 | 0.015 | SH/K93 | 6.0 | 2.7 | 7.3 | 2824 | 20 | F126SH153(1)400(2) | SMW7.3153(1)400K93(2) |
| 400 | 200 | 0.018 | SM/K95 | 6.0 | 3.2 | 7.3 | 2824 | 20 | F126SM183(1)400(2) | SMW7.3183(1)400K95(2) |
| 400 | 200 | 0.022 | SM/K95 | 6.0 | 3.2 | 7.3 | 2824 | 20 | F126SM223(1)400(2) | SMW7.3223(1)400K95(2) |
| VDC | VAC | Capacitance Value (µF) | Size Code (New/Legacy) | B (mm) | H (mm) | L (mm) | Chip Size | dV/dt (V/µs) | New KEMET Part Number | Legacy Part Number |

*(1) G = ±2%, R = ±2.5% (Legacy code = H), J = ±5%, K = ±10%.*

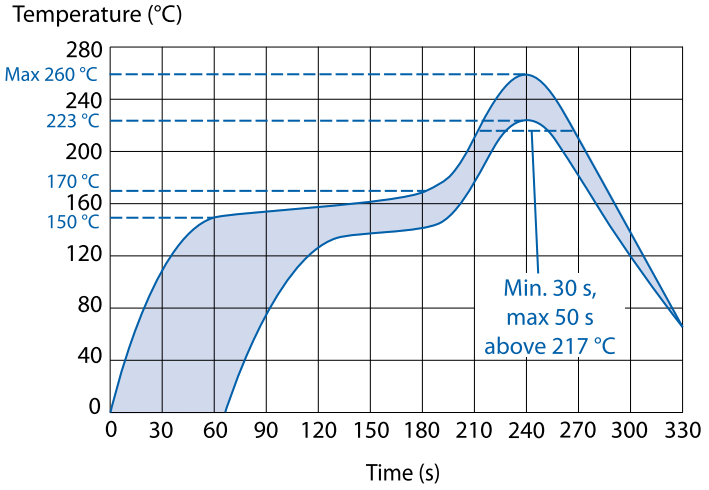
*(2) Insert ordering code for lead type and packaging. See Ordering Options Table for available options.*



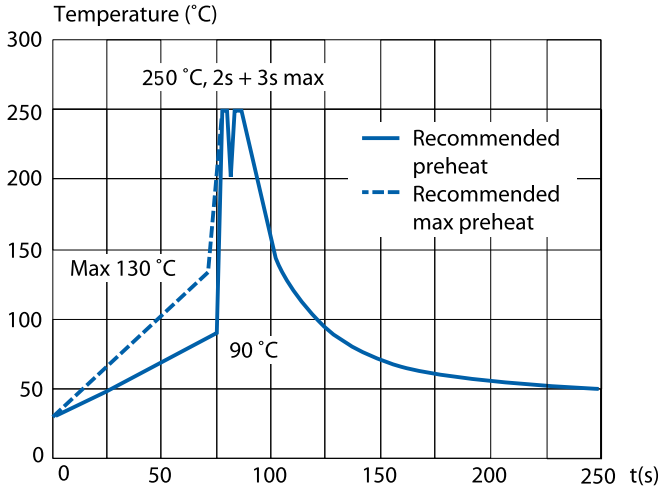
Roll Over for Order Info.

## Soldering Process

Reflow soldering temperature is measured on the top body surface of the component. Preheating temperature should be less than 170°C. The time above 217°C should be less than 50 seconds. The peak temperature must not exceed 260°C.




Wave soldering: The recommended preheating temperature is 90°C (130°C maximum). The peak temperature 250°C may be applied for 2 – 5 seconds maximum. KEMET recommends wave soldering for parts with up to 2 mm height.




## Marking

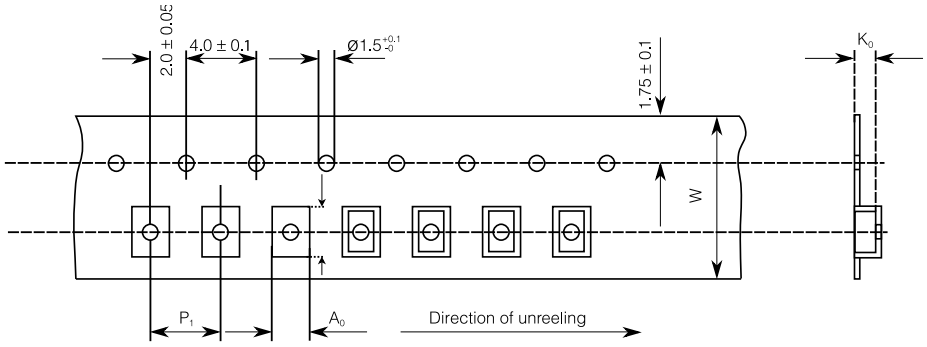
- Capacitance
- Capacitance tolerance code
- Rated voltage code
- Capacitor type S for SMW
- Manufacturing date code

## Packaging Quantities

| Chip Size (EIA) | Base (mm) | Height (mm) | Length (mm) | Bulk | Reel Horizontal Orientation |
|---|---|---|---|---|---|
| 2220 | 5.0 | 2.0 | 5.7 | 2000 | 3100 |
| 2220 | 5.0 | 3.0 | 5.7 | 2000 | 2400 |
| 2220 | 5.0 | 4.0 | 5.7 | 2000 | 2100 |
| 2824 | 6.0 | 2.0 | 7.3 | 2000 | 3100 |
| 2824 | 6.0 | 2.7 | 7.3 | 2000 | 2500 |
| 2824 | 6.0 | 3.2 | 7.3 | 2000 | 2300 |
| 2824 | 6.0 | 4.2 | 7.3 | 1000 | 1700 |

## Carrier Taping & Packaging (IEC 60286–2)

## Horizontal Taping Orientation




| Chip Size (EIA) Horizontal Mounting | Dimensions in mm | | | Taping Specification | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | B | H | L | W | $P_1$ | $A_0$ | $B_0$ | $K_0$ | D | $W_1$ | $W_2$ |
| | Nominal | Nominal | Nominal | -0/+0.3 | +/-0.1 | Nominal | Nominal | Nominal | -/+2.0 | -0/+2 | Maximum |
| 2220 | 5.0 | 2.0 | 5.7 | 12.0 | 8.0 | 5.5 | 6.0 | 2.8 | 330 | 12.4 | 22.0 |
| 2220 | 5.0 | 3.0 | 5.7 | 12.0 | 8.0 | 5.5 | 6.0 | 3.3 | 330 | 12.4 | 22.0 |
| 2220 | 5.0 | 4.0 | 5.7 | 12.0 | 8.0 | 5.5 | 6.0 | 4.3 | 330 | 12.4 | 22.0 |
| 2824 | 6.0 | 2.0 | 7.3 | 12.0 | 8.0 | 6.5 | 7.5 | 2.8 | 330 | 12.4 | 22.0 |
| 2824 | 6.0 | 2.7 | 7.3 | 12.0 | 8.0 | 6.5 | 7.5 | 3.3 | 330 | 12.4 | 22.0 |
| 2824 | 6.0 | 3.2 | 7.3 | 12.0 | 8.0 | 6.5 | 7.5 | 3.8 | 330 | 12.4 | 22.0 |
| 2824 | 6.0 | 4.2 | 7.3 | 12.0 | 8.0 | 6.5 | 7.5 | 4.8 | 330 | 12.4 | 22.0 |

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Tel: 49-8191-3350800

Kamen, Germany
Tel: 49-2307-438110

**Northern Europe**
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Tel: 44-1279-460122

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

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Tel: 86-10-5829-1711

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

Taipei, Taiwan
Tel: 886-2-27528585

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

Penang, Malaysia
Tel: 60-4-6430200

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

*Note: KEMET reserves the right to modify minor details of internal and external construction at any time in the interest of product improvement. KEMET does not assume any responsibility for infringement that might result from the use of KEMET Capacitors in potential circuit designs. KEMET is a registered trademark of KEMET Electronics Corporation.*

## Other KEMET Resources

| Tools | |
|---|---|
| Resource | Location |
| Configure A Part: CapEdge | http://capacitoredge.kemet.com |
| SPICE & FIT Software | http://www.kemet.com/spice |
| Search Our FAQs: KnowledgeEdge | http://www.kemet.com/keask |
| Electrolytic LifeCalculator | http://www.kemet.com:8080/elc |

| Product Information | |
|---|---|
| Resource | Location |
| Products | http://www.kemet.com/products |
| Technical Resources (Including Soldering Techniques) | http://www.kemet.com/technicalpapers |
| RoHS Statement | http://www.kemet.com/rohs |
| Quality Documents | http://www.kemet.com/qualitydocuments |

| Product Request | |
|---|---|
| Resource | Location |
| Sample Request | http://www.kemet.com/sample |
| Engineering Kit Request | http://www.kemet.com/kits |

| Contact | |
|---|---|
| Resource | Location |
| Website | www.kemet.com |
| Contact Us | http://www.kemet.com/contact |
| Investor Relations | http://www.kemet.com/ir |
| Call Us | 1-877-MyKEMET |
| Twitter | http://twitter.com/kemetcapacitors |

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Although all product–related warnings, cautions and notes must be observed, the customer should not assume that all safety measures are indicted or that other measures may not be required.

Digitally signed by Jeannette Calvo
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# OCEAN CHIPS
## Океан Электроники
## Поставка электронных компонентов

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

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «**JONHON**», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «**FORSTAR**».

AVIC JONHON

**«JONHON»** (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

**«FORSTAR»** (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).

FORSTAR®

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