

Safety Standard Recognized, 900 Series, Radial Disc, Encapsulated, AH Type, X1 400 VAC/Y1 250 VAC (Industrial Grade)

Overview

KEMET's 900 series encapsulated radial through-hole ceramic disc capacitors are specifically designed for interference-suppression AC line filtering applications. Having internationally recognized safety certifications, these capacitors are well-suited for applications that require keeping potentially disruptive or damaging line transients and EMI out of susceptible equipment. They are also an ideal solution when needing to suppress line disturbances at the source.

Safety Certified Capacitors are classified as either X and/or Y capacitors. Class X capacitors are primarily used in line-to-line (across-the-line) applications. In this application there is no danger of electric shock to humans should the capacitor fail, but could result in a risk of fire. The class Y capacitor is primarily used in line-to-ground (line by-pass) applications. In this application, failure of the capacitor could lead to danger of electric shock.

With a working voltage of 400 VAC in line-to-line (Class X) and 250 VAC in line-to-ground (Class Y) applications, these safety capacitors meet the impulse test criteria outlined in IEC Standard 60384. Meeting subclass X1 and Y1 requirements, these devices are certified to withstand impulses up to 4 KV (X1) and 8 KV (Y1) respectively. These encapsulated devices also meet the flame test requirements outlined in UL Standard 94V-0.



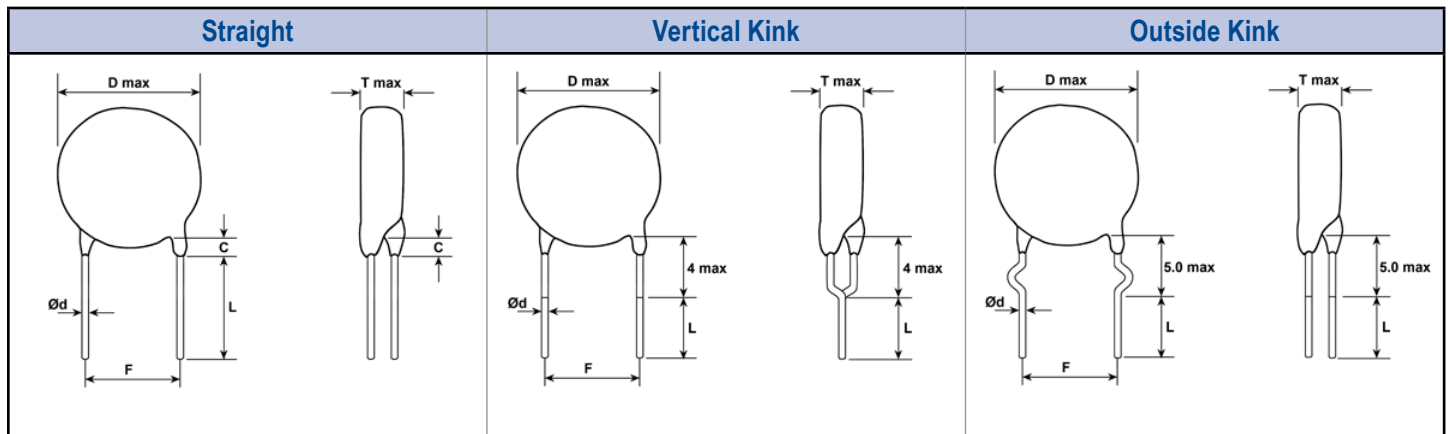
Ordering Information

| C9 | 1 | 1 | U | 620 | J | U | S | D | A | A | 7317 |
|-------------------------|--|---------------------------|------------|---|--|-----------------------------|---|----------|--|--------------|---|
| Ceramic Series | Body Diameter | Lead Spacing ¹ | Spec. | Capacitance Code (pF) | Capacitance Tolerance | Rated Voltage | Dielectric/Temp. Char. | Design | Lead Config. ² | Failure Rate | Packaging (C-Spec) ^{1,2} |
| C9 = Ceramic 900 Series | 0 = 7.0 mm 1 = 8.0 mm 2 = 9.0 mm 3 = 10.0 mm 4 = 11.0 mm 5 = 12.0 mm 7 = 14.0 mm | 1 = 10.0 mm | U = Safety | 2 significant digits + Number of zeroes Use 9 for 1.0 - 9.9pF e.g., 2.2pF = 229 | C = ±0.25pF D = ±0.5pF J = ±5% K = ±10% M = ±10% | U = X1 400 VAC / Y1 250 VAC | N = CH (NP0) S = SL Y = Y5P W = Y5U V = Y5V | D = Disc | A = Straight B = Vertical C = Kink Outside Kink | A = N/A | 7317 = Ammo Pack WL30 = Bulk/3.0 mm Lead length WL35 = Bulk/3.5 mm Lead length WL40 = Bulk/4.0 mm Lead length WL45 = Bulk/4.5 mm Lead length WL50 = Bulk/5.0 mm Lead length WL20 = Bulk/20 mm Lead length |

¹ "Vertical Kink" and "Outside Kink" lead configurations cannot be combined with the bulk/20 mm lead length option (WL20). 20 mm lead length is only available on capacitors ordered with straight leads (lead configuration ordering code "A"). For nonstandard lead length inquiries, please contact KEMET.

² Bulk packaging lead length availability is dependent upon "Lead Configuration." See "Dimensions" section of this document to verify availability of a specific lead length option. For nonstandard lead length inquiries, please contact KEMET.

Lead Configurations



Dimensions – Millimeters

| Lead Config. | Lead Config. Ordering Code ¹ | F | Lead Spacing Tolerance | Packaging Type | L | Packaging C-Spec Ordering Code ² | D | T | e | Ød |
|---------------------------|---|--------------|------------------------|----------------|----------------|---|--|----------------|---------------|-----------|
| | | Lead Spacing | | | Lead Length | | Body Diameter | Body Thickness | Lead Meniscus | Lead Dia. |
| Straight | A | 10.0 | ±1.0 | Ammo Pack | 20.0 +1.5/-1.0 | 7317 | See Table 1 - "Product Ordering Codes and Ratings" | | 3.0 maximum | 0.5 ±0.1 |
| | | | | Bulk | 3.0 ±1.0 | WL30 | | | | |
| | | | | | 4.5 ±1.0 | WL45 | | | | |
| | | | | | 5.0 ±1.0 | WL50 | | | | |
| 20.0 minimum | WL20 | | | | | | | | | |
| Vertical Kink (Preformed) | B | 10.0 | ±1.0 | Ammo Pack | 18.0 +2.0/-0 | 7317 | | | | |
| | | | | Bulk | 3.5 ±1.0 | WL35 | | | | |
| Outside Kink (Preformed) | C | 10.0 | ±1.0 | | Ammo Pack | 18.0 +2.0/-0 | | | | |
| | | | | Bulk | 3.5 ±1.0 | WL35 | | | | |
| | | | | | 4.0 ±1.0 | WL40 | | | | |
| | | 5.0 ±1.0 | WL50 | | | | | | | |

¹ Lead Configuration is identified in the 13th character of the ordering code. See "Lead Configuration" and "Ordering Information" sections of this document for further details.

² The "Packaging C-Spec" is a 4-digit numeric or alphanumeric code which identifies both the packaging type and lead length requirement. When ordering, this code must be included in the 15th through 18th character positions of the ordering code. See "Ordering Information" section of this document for further details.

Benefits

- Safety Standard Recognized (IEC 60384-14)
- Reliable operation up to 125°C
- Class X1/Y1
- 10 mm lead spacing
- Lead (Pb)-free and RoHS Compliant
- Halogen Free
- Capacitance offerings ranging from 2.0 pF up to 4,700 pF
- Available capacitance tolerances of ± 0.25 pF, ± 0.5 pF, $\pm 5\%$, $\pm 10\%$, and $\pm 20\%$
- High reliability
- Preformed (crimped) or straight lead configurations
- Non-polar device, minimizing installation concerns
- 100% pure matte tin-plated lead finish allowing for excellent solderability
- Encapsulation meets flammability standard UL 94V-0

Applications

Typical applications include:

- Line-to-line (Class X) filtering
- Line-to-ground (Class Y) filtering
- Antenna coupling
- Primary and secondary coupling (switching power supplies)
- Line disturbances suppression (motors and motor controls, relays, switching power supplies, and inverters)

Approval Standard and Certification No.

| Safety Standard | Standard No. | Subclass | Working Voltage | Certificate No. |
|-----------------|--------------|----------|-----------------|-----------------|
| VDE (ENEC) | IEC 60384-14 | X1 | 400 VAC | 40036417 |
| | | Y1 | 250 VAC | |

These devices are VDE/ENEC recognized for antenna coupling and AC line-to-line (Class X) and line-to-ground (Class Y) applications per IEC60384-14.

Environmental Compliance

These devices are Halogen Free and RoHS Compliant. They meet all requirements set forth by both EU and China RoHS directives.



RoHS Compliant



Halogen Free

General Specifications/Performance Characteristics

| Dielectric/Temperature Characteristic: | CH(NP0) | SL | Y5P | Y5U | Y5V |
|---|---|----------------------|--------------------------|-----------|-------------|
| Operating Temperature Range: | -25°C to +125°C | | | | |
| Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC): | ±60 ppm/°C | -1,000 ~ +350 ppm/°C | ±10% | +20%/-55% | ~ +30%/-80% |
| Dielectric Withstanding Voltage | 4,000 VAC (60 ±5 seconds at 25°C) | | | | |
| Quality Factor (Q) | 30 pF and above: ≥ 1,000 Below 30 pF: ≥ 400 +(20xC)* | | See "Dissipation Factor" | | |
| Dissipation Factor (tanδ) at +25°C ¹ | See "Quality Factor" | | 2.50% | 2.50% | 5.0% |
| Insulation Resistance (IR) Limit at +25°C | 10,000 MΩ Minimum (500 VDC applied for 60 ±5 seconds @ 25°C) | | | | |

* C = Nominal capacitance

¹ Capacitance and Dissipation Factor (DF) measured under the following conditions:

CH(NP0) and SL: 1 MHz ±100 kHz and 1.0 ±0.2 Vrms

X5P, Y5U and Y5V: 1 kHz ±50 Hz and 1.0 ±0.2 Vrms

Note: When measuring capacitance, it is important to ensure the set voltage level is held constant. The HP4284 & Agilent E4980 have a feature known as Automatic Level Control (ALC). The ALC feature should be switched to "ON."

Table 1 – Product Ordering Codes and Ratings

| Dielectric/ Temp. Char. | KEMET Part Number | Capacitance | Capacitance Tolerance | Dimensions (mm) | | | Lead Spacing | |
|-------------------------------|----------------------|-------------|--------------------------|-------------------------------|--------------------------------|------------------|-------------------|-------------------|
| | | | | Body Diameter (Maximum) | Body Thickness (Maximum) | Lead Diameter | Bulk Packaging | Ammo Packaging |
| CH (NP0) | C901U209CUND(1)A(2) | 2.0 pF | ±0.25 pF | 7.0 | 5.0 | 0.5 ±0.1 | 10 mm | |
| | C901U309CUND(1)A(2) | 3.0 pF | | | | | | |
| | C901U409CUND(1)A(2) | 4.0 pF | | | | | | |
| | C901U509CUND(1)A(2) | 5.0 pF | | | | | | |
| | C901U609DUND(1)A(2) | 6.0 pF | | | | | | |
| | C901U709DUND(1)A(2) | 7.0 pF | ±0.5 pF | 8.0 | 5.0 | 0.5 ±0.1 | 10 mm | |
| | C901U809DUND(1)A(2) | 8.0 pF | | | | | | |
| | C901U909DUND(1)A(2) | 9.0 pF | | | | | | |
| | C901U100DUND(1)A(2) | 10 pF | | | | | | |
| | C901U120JUND(1)A(2) | 12 pF | | | | | | |
| | C911U150JUND(1)A(2) | 15 pF | ±5% | 8.0 | 5.0 | 0.5 ±0.1 | 10 mm | |
| | C911U180JUND(1)A(2) | 18 pF | | | | | | |
| | C911U200JUND(1)A(2) | 20 pF | | | | | | |
| | C911U220JUND(1)A(2) | 22 pF | | | | | | |
| | C911U240JUND(1)A(2) | 24 pF | | | | | | |
| C911U270JUND(1)A(2) | 27 pF | | | | | | | |
| | KEMET Part Number | Capacitance | Capacitance Tolerance | Body Diameter (Maximum) | Body Thickness (Maximum) | Lead Diameter | Lead Spacing | |

(1) To properly complete ordering code, insert the one-digit character code to reflect the required lead configuration: (See "Lead Configuration" section of this document, page 2, for further details.)

A = Straight

B = Vertical Kink

C = Outside Kink

(2) To properly complete ordering code, enter the four-digit numeric or alphanumeric "Packaging C-Spec Ordering Code." See "Dimensions" section of this document, page 2, for available options.

Table 1 – Product Ordering Codes and Ratings cont'd

| Dielectric/ Temp. Char. | KEMET Part Number | Capacitance | Capacitance Tolerance | Dimensions (mm) | | | Lead Spacing | |
|-------------------------------|--------------------------|--------------------|----------------------------------|------------------------------------|-------------------------------------|----------------------|---------------------|-------------------|
| | | | | Body Diameter (Maximum) | Body Thickness (Maximum) | Lead Diameter | Bulk Packaging | Ammo Packaging |
| SL | C901U150JUSD(1)A(2) | 15 pF | ±5% | 7.0 | 5.0 | 0.5 ±0.1 | 10 mm | |
| | C901U180JUSD(1)A(2) | 18 pF | | | | | | |
| | C901U200JUSD(1)A(2) | 20 pF | | | | | | |
| | C901U220JUSD(1)A(2) | 22 pF | | | | | | |
| | C901U240JUSD(1)A(2) | 24 pF | | | | | | |
| | C901U270JUSD(1)A(2) | 27 pF | | | | | | |
| | C901U300JUSD(1)A(2) | 30 pF | | | | | | |
| | C901U330JUSD(1)A(2) | 33 pF | | | | | | |
| | C901U360JUSD(1)A(2) | 36 pF | | | | | | |
| | C901U390JUSD(1)A(2) | 39 pF | | | | | | |
| | C911U470JUSD(1)A(2) | 47 pF | | | | | | |
| | C911U500JUSD(1)A(2) | 50 pF | | | | | | |
| | C911U510JUSD(1)A(2) | 51 pF | | | | | | |
| | C911U560JUSD(1)A(2) | 56 pF | | | | | | |
| | C911U620JUSD(1)A(2) | 62 pF | | | | | | |
| | C921U680JUSD(1)A(2) | 68 pF | | | | | | |
| C921U750JUSD(1)A(2) | 75 pF | | | | | | | |
| C921U820JUSD(1)A(2) | 82 pF | | | | | | | |
| C931U101JUSD(1)A(2) | 100 pF | | | | | | | |
| Y5P | C901U101KUYD(1)A(2) | 100 pF | ±10% | 7.0 | 5.0 | 0.5 ±0.1 | 10 mm | |
| | C901U151KUYD(1)A(2) | 150 pF | | | | | | |
| | C901U221KUYD(1)A(2) | 220 pF | | | | | | |
| | C901U331KUYD(1)A(2) | 330 pF | | | | | | |
| | C911U471KUYD(1)A(2) | 470 pF | | | | | | |
| | C921U561KUYD(1)A(2) | 560 pF | | | | | | |
| | C921U681KUYD(1)A(2) | 680 pF | | | | | | |
| C941U102KUYD(1)A(2) | 1,000 pF | | | | | | | |
| Y5U | C911U102MUWD(1)A(2) | 1,000 pF | ±20% | 8.0 | 5.0 | 0.5 ±0.1 | 10 mm | |
| | C921U152MUWD(1)A(2) | 1,500 pF | | | | | | |
| | C931U222MUWD(1)A(2) | 2,200 pF | | | | | | |
| | C951U332MUWD(1)A(2) | 3,300 pF | | | | | | |
| | C961U392MUWD(1)A(2) | 3,900 pF | | | | | | |
| | C971U472MUWD(1)A(2) | 4,700 pF | | | | | | |
| Y5V | C901U102MUVD(1)A(2) | 1,000 pF | ±20% | 7.0 | 5.5 | 0.5 ±0.1 | 10 mm | |
| | C911U152MUVD(1)A(2) | 1,500 pF | | | | | | |
| | C921U222MUVD(1)A(2) | 2,200 pF | | | | | | |
| | C941U332MUVD(1)A(2) | 3,300 pF | | | | | | |
| | C951U472MUVD(1)A(2) | 4,700 pF | | | | | | |
| | KEMET Part Number | Capacitance | Capacitance Tolerance | Body Diameter (Maximum) | Body Thickness (Maximum) | Lead Diameter | Lead Spacing | |

(1) To properly complete ordering code, insert the one-digit character code to reflect the required lead configuration: (See "Lead Configuration" section of this document, page 2, for further details.)

A = Straight

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C = Outside Kink

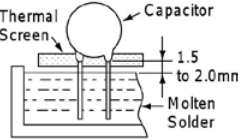
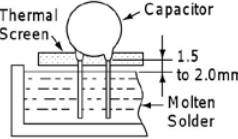
(2) To properly complete ordering code, enter the four-digit numeric or alphanumeric "Packaging C-Spec Ordering Code." See "Dimensions" section of this document, page 2, for available options.

Table 2 – Performance & Reliability: Test Methods and Conditions

| Item | | Specification | Test Method | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|--|---------------|-------------|-----------|------------------|-----------|-------------------|--|---|----|--------------------------------------|---|------|-------------|---|----------|---|----------|---|----------|---|----------|---|----------|
| Operating Temperature Range | | -25°C to +125°C | | | | | | | | | | | | | | | | | | | | | | | | |
| Dielectric Strength | Between lead wires | No failures | The capacitor shall not be damaged when 4,000 VAC(rms) is applied between the lead wires for 60 seconds. | | | | | | | | | | | | | | | | | | | | | | | |
| | Body Insulation | No failures | The terminals (leads) of the capacitor shall be connected together. A metal foil is tightly wrapped around the body of the capacitor at a distance of about 3 to 4 mm from each terminal. The capacitor is then inserted into a container filled with metal balls approximately 1 mm in diameter. 4,000 VAC(rms) is applied for 60 seconds between the capacitor lead wires and metal balls.  | | | | | | | | | | | | | | | | | | | | | | | |
| Insulation Resistance (IR) | | 10,000 MΩ minimum | The insulation resistance shall be measured with 500 ±50 VDC applied after 60 ±5 seconds of charging. | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance | | Within specified tolerance | | | | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor (DF) or Q | <table border="1"> <thead> <tr> <th>Temperature Characteristics</th> <th>Specification</th> </tr> </thead> <tbody> <tr> <td>Y5P, Y5U</td> <td>DF ≤ 2.5%</td> </tr> <tr> <td>Y5V</td> <td>DF ≤ 5.0%</td> </tr> <tr> <td>NP0,SL</td> <td>≥ 30 pF: Q ≥ 1,000 < 30 pF: Q ≥ 400 + (20 x C) C = Nominal capacitance</td> </tr> </tbody> </table> | | Temperature Characteristics | Specification | Y5P, Y5U | DF ≤ 2.5% | Y5V | DF ≤ 5.0% | NP0,SL | ≥ 30 pF: Q ≥ 1,000 < 30 pF: Q ≥ 400 + (20 x C) C = Nominal capacitance | Y5P, Y5U and Y5V: Capacitance is measured at 1 kHz ±20% and 5 Vrms or less. (20 ±2°C) NP0 and SL: Capacitance is measured at 1 MHz ±20% and 1.0 ±0.2 Vrms (25°C) | | | | | | | | | | | | | | | |
| | Temperature Characteristics | Specification | | | | | | | | | | | | | | | | | | | | | | | | |
| | Y5P, Y5U | DF ≤ 2.5% | | | | | | | | | | | | | | | | | | | | | | | | |
| | Y5V | DF ≤ 5.0% | | | | | | | | | | | | | | | | | | | | | | | | |
| NP0,SL | ≥ 30 pF: Q ≥ 1,000 < 30 pF: Q ≥ 400 + (20 x C) C = Nominal capacitance | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Temperature Characteristics</th> <th>Capacitance Change</th> </tr> </thead> <tbody> <tr> <td>Y5P</td> <td>Within ±10%</td> </tr> <tr> <td>Y5U</td> <td>Within +22%/-56%</td> </tr> <tr> <td>Y5V</td> <td>Within ~+30%/-80%</td> </tr> <tr> <td>CH</td> <td>0 ±60 ppm/°C</td> </tr> <tr> <td>SL</td> <td>-1,000 ~+350 ppm°C (+20°C ~+85°C)</td> </tr> </tbody> </table> | | Temperature Characteristics | Capacitance Change | Y5P | Within ±10% | Y5U | Within +22%/-56% | Y5V | Within ~+30%/-80% | CH | 0 ±60 ppm/°C | SL | -1,000 ~+350 ppm°C (+20°C ~+85°C) | A capacitance measurement is made at each step specified: <table border="1"> <thead> <tr> <th>Step</th> <th>Temperature</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>+20 ±2°C</td> </tr> <tr> <td>2</td> <td>-25 ±2°C</td> </tr> <tr> <td>3</td> <td>+20 ±2°C</td> </tr> <tr> <td>4</td> <td>+85 ±2°C</td> </tr> <tr> <td>5</td> <td>+20 ±2°C</td> </tr> </tbody> </table> | Step | Temperature | 1 | +20 ±2°C | 2 | -25 ±2°C | 3 | +20 ±2°C | 4 | +85 ±2°C | 5 | +20 ±2°C |
| Temperature Characteristics | Capacitance Change | | | | | | | | | | | | | | | | | | | | | | | | | |
| Y5P | Within ±10% | | | | | | | | | | | | | | | | | | | | | | | | | |
| Y5U | Within +22%/-56% | | | | | | | | | | | | | | | | | | | | | | | | | |
| Y5V | Within ~+30%/-80% | | | | | | | | | | | | | | | | | | | | | | | | | |
| CH | 0 ±60 ppm/°C | | | | | | | | | | | | | | | | | | | | | | | | | |
| SL | -1,000 ~+350 ppm°C (+20°C ~+85°C) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Step | Temperature | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | +20 ±2°C | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | -25 ±2°C | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | +20 ±2°C | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | +85 ±2°C | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | +20 ±2°C | | | | | | | | | | | | | | | | | | | | | | | | | |
| Temperature Characteristics | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminal Strength | Tensile | Lead wire or capacitor body shall not break. | With the termination in its normal position, the specimen is held by its body in such a manner that the axis of the termination is vertical; a tensile force of 10 N is applied to the termination in the direction of its axis and acting in a direction away from the body of the specimen. | | | | | | | | | | | | | | | | | | | | | | | |
| | Bending | Lead wire or capacitor body shall not break. | With the termination in its normal position, the specimen is held by its body in such a manner that the axis of the termination is vertical; a mass force of 5 N is then suspended from the end of the termination. The body of the specimen is then inclined within a period of 2 to 3 seconds, through an angle of approximately 90° in the vertical plane and then resumed to its initial position over the same period of time; this operation constitutes one bend. One bend immediately followed by a second bend in the opposite direction. | | | | | | | | | | | | | | | | | | | | | | | |
| Solderability | | Lead wire should have a uniform coating of solder in the axial direction and over 3/4 of its circumference. | The lead wire of the capacitor is dipped into molten solder for 2 ±0.5 seconds. The depth of immersion is up to 1.5 mm (+5/-0 mm) from the root of lead wires. Solder Temperature: Lead free solder (Sn-3Ag - 0.5Cu) 245°C ±5°C. | | | | | | | | | | | | | | | | | | | | | | | |

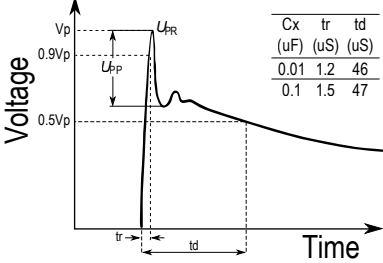
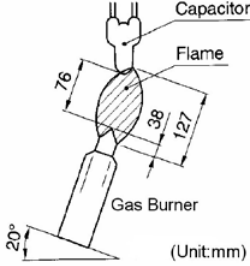
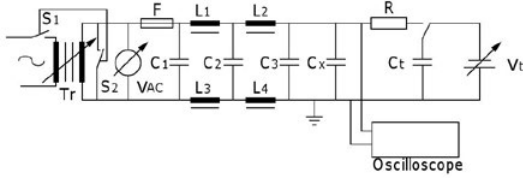
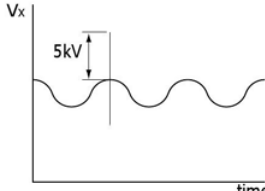
¹ "Room Condition" is defined as follows: Temperature: 15 ~ 35°C/Humidity: 45 ~ 75%/Atmospheric Pressure: 86 ~ 106 kPa.

Table 2 – Performance & Reliability: Test Methods and Conditions cont'd

| Item | | Specification | | Test Method | | | | | | | | | | | |
|--------------------------------|--|--|---|--|--------------------|-----|-------------|-----|-------------|-----|-------------|-------------|--|--|--|
| Soldering Effect (Non-Preheat) | Appearance | No visual defect | | <p>As shown in the figure below, the lead wires are immersed in molten solder up to 1.5 mm (+5/-0 mm) from the end of the epoxy meniscus (root of lead wire). Duration/Solder Temperature: 3.5 ±0.5 seconds/350°C ±10°C or 10 ±1 seconds/260°C ±5°C</p>  <p>Pre-treatment: Capacitor is stored at 85°C ±2°C for 1 hour and then placed at room condition¹ for 24 ±2 hours before initial measurements. Post-treatment: Capacitor is stored for 1 to 2 hours at room condition¹.</p> | | | | | | | | | | | |
| | IR | 1,000 MΩ | | | | | | | | | | | | | |
| | Dielectric Strength | Per item 1 | | | | | | | | | | | | | |
| | Capacitance | Y5P, Y5U and Y5V: Within ±10% SL, CH (NP0): Within ±2.5% or ±0.25 pF, whichever is larger. | | | | | | | | | | | | | |
| Soldering Effect (Preheat) | Appearance | No visual defect | | <p>Capacitor is stored at 120°C +0/-5°C for 60 +0/-5 seconds. Then, as shown in the figure below, the lead wires are immersed in molten solder up to 1.5 mm (+5/-0mm) from the end of the epoxy meniscus (root of lead wire). Duration/Solder Temperature: 7.5 +0/-1 seconds/260°C ±5°C</p>  <p>Pre-treatment: Capacitor is stored at 85°C ±2°C for 1 hour and then placed at room condition¹ for 24 ±2 hours before initial measurements. Post-treatment: Capacitor is stored for 1 to 2 hours at room condition¹.</p> | | | | | | | | | | | |
| | IR | 1,000 MΩ | | | | | | | | | | | | | |
| | Dielectric Strength | Per item 1 | | | | | | | | | | | | | |
| | Capacitance | Y5P, Y5U and Y5V: Within ±10% SL, CH (NP0): Within ±2.5% or ±0.25 pF, whichever is larger. | | | | | | | | | | | | | |
| Biased Humidity | Appearance | No visual defect | | Steady State Humidity: | Load Humidity: | | | | | | | | | | |
| | Capacitance | <table border="1"> <thead> <tr> <th>Temperature Characteristics</th> <th>Capacitance Change</th> </tr> </thead> <tbody> <tr> <td>Y5P</td> <td>Within ±10%</td> </tr> <tr> <td>Y5U</td> <td>Within ±20%</td> </tr> <tr> <td>Y5V</td> <td>Within ±30%</td> </tr> <tr> <td>SL CH (NP0)</td> <td>Within ±2.5% or ±0.25 pF, whichever is larger.</td> </tr> </tbody> </table> | | Temperature Characteristics | Capacitance Change | Y5P | Within ±10% | Y5U | Within ±20% | Y5V | Within ±30% | SL CH (NP0) | Within ±2.5% or ±0.25 pF, whichever is larger. | 90 to 95% humidity at 40°C ±2°C for 500 ±12 hours. | 90 to 95% humidity at 40°C ±2°C for 500 ±12 hours with full rated voltage applied. |
| | | Temperature Characteristics | Capacitance Change | | | | | | | | | | | | |
| | | Y5P | Within ±10% | | | | | | | | | | | | |
| | | Y5U | Within ±20% | | | | | | | | | | | | |
| | Y5V | Within ±30% | | | | | | | | | | | | | |
| | SL CH (NP0) | Within ±2.5% or ±0.25 pF, whichever is larger. | | | | | | | | | | | | | |
| | DF | Y5P and Y5U: 5.0% maximum Y5V: 7.5% maximum | | | | | | | | | | | | | |
| Q | SL&CH(NP0): Less than 30 pF: Q ≥ 100+10×C/3 More than 30 pF: Q ≥ 200 C = Nominal capacitance | | | | | | | | | | | | | | |
| IR | Y5P, Y5V and Y5U: 3,000 MΩ minimum SL and CH (NP0): 1,000 MΩ minimum | | | | | | | | | | | | | | |
| Dielectric Strength | No failures | | <p>Post Treatment: Capacitor is stored for 1 to 2 hours at room condition¹.</p> | <p>Post Treatment: Capacitor is stored for 1 to 2 hours at room condition¹.</p> | | | | | | | | | | | |

¹ "Room Condition" is defined as follows: Temperature: 15 ~ 35°C/Humidity: 45 ~ 75%/Atmospheric Pressure: 86 ~ 106 kPa.

Table 2 – Performance & Reliability: Test Methods and Conditions cont'd

| Item | | Specification | Test Method | | | | | | | | | | | | | | | | | | | |
|-----------------------|--|--|--|----------------------|--------------------|-------------------------------|--------------------|---|------|----------------|-----|---------------|-----------------|--------------|----|---------------------------|----------------|---------------|---|-----------------|----|-----------------------|
| High Temperature Life | Appearance | No visual defect | <p>Impulse Voltage: Each individual capacitor is subjected to three 8 kv impulses prior to life testing.</p>  <table border="1" data-bbox="1136 409 1247 499"> <tr> <td>Cx</td> <td>tr</td> <td>td</td> </tr> <tr> <td>(uF)</td> <td>(uS)</td> <td>(uS)</td> </tr> <tr> <td>0.01</td> <td>1.2</td> <td>46</td> </tr> <tr> <td>0.1</td> <td>1.5</td> <td>47</td> </tr> </table> | Cx | tr | td | (uF) | (uS) | (uS) | 0.01 | 1.2 | 46 | 0.1 | 1.5 | 47 | | | | | | | |
| | Cx | tr | | td | | | | | | | | | | | | | | | | | | |
| | (uF) | (uS) | | (uS) | | | | | | | | | | | | | | | | | | |
| | 0.01 | 1.2 | | 46 | | | | | | | | | | | | | | | | | | |
| 0.1 | 1.5 | 47 | | | | | | | | | | | | | | | | | | | | |
| Capacitance Change | Y5P, Y5V and Y5U: Within $\pm 20\%$ SL and CH (NPO): Within ± 3 or ± 0.3 pF, whichever is larger. | | | | | | | | | | | | | | | | | | | | | |
| IR | 3,000 M Ω minimum SL and CH (NPO): 1,000 M Ω minimum | | | | | | | | | | | | | | | | | | | | | |
| Dielectric Strength | No failures | | | | | | | | | | | | | | | | | | | | | |
| Flame Test | <p>The capacitor flame extinguishes as follows:</p> <table border="1" data-bbox="457 934 805 1062"> <thead> <tr> <th>Cycle</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>1 ~ 4</td> <td>30 seconds maximum</td> </tr> <tr> <td>5</td> <td>60 seconds maximum</td> </tr> </tbody> </table> | Cycle | Time | 1 ~ 4 | 30 seconds maximum | 5 | 60 seconds maximum | <p>The capacitor is exposed to a flame for 15 seconds and then removed for 15 seconds. This test is repeated for 5 cycles.</p>  <p>(Unit:mm)</p> | | | | | | | | | | | | | | |
| Cycle | Time | | | | | | | | | | | | | | | | | | | | | |
| 1 ~ 4 | 30 seconds maximum | | | | | | | | | | | | | | | | | | | | | |
| 5 | 60 seconds maximum | | | | | | | | | | | | | | | | | | | | | |
| Active Flammability | The cheesecloth should not ignite. | <p>The capacitors are individually wrapped in at least one, but not more than two, complete layers of cheesecloth. They are then subjected to 20 discharges. The interval between successive discharges is 5 seconds. The VAC is maintained for 2 minutes after the last discharge.</p>  <table border="1" data-bbox="852 1459 1523 1663"> <tbody> <tr> <td>C_{1,2}</td> <td>1 μF $\pm 10\%$</td> <td>C₃</td> <td>0.033 μF $\pm 5\%$ 10 kV</td> </tr> <tr> <td>L₁₋₄</td> <td>1.5 Mh $\pm 20\%$ 16A Rod core choke</td> <td>Cx</td> <td>Test capacitor</td> </tr> <tr> <td>R</td> <td>100 $\pm 2\%$</td> <td>V_{AC}</td> <td>VR $\pm 5\%$</td> </tr> <tr> <td>Ct</td> <td>3 μF $\pm 5\%$ 10 kV</td> <td>V_R</td> <td>Rated Voltage</td> </tr> <tr> <td>F</td> <td>Fuse, Rated 10A</td> <td>Vt</td> <td>Voltage applied to Ct</td> </tr> </tbody> </table>  | C _{1,2} | 1 μ F $\pm 10\%$ | C ₃ | 0.033 μ F $\pm 5\%$ 10 kV | L ₁₋₄ | 1.5 Mh $\pm 20\%$ 16A Rod core choke | Cx | Test capacitor | R | 100 $\pm 2\%$ | V _{AC} | VR $\pm 5\%$ | Ct | 3 μ F $\pm 5\%$ 10 kV | V _R | Rated Voltage | F | Fuse, Rated 10A | Vt | Voltage applied to Ct |
| C _{1,2} | 1 μ F $\pm 10\%$ | C ₃ | 0.033 μ F $\pm 5\%$ 10 kV | | | | | | | | | | | | | | | | | | | |
| L ₁₋₄ | 1.5 Mh $\pm 20\%$ 16A Rod core choke | Cx | Test capacitor | | | | | | | | | | | | | | | | | | | |
| R | 100 $\pm 2\%$ | V _{AC} | VR $\pm 5\%$ | | | | | | | | | | | | | | | | | | | |
| Ct | 3 μ F $\pm 5\%$ 10 kV | V _R | Rated Voltage | | | | | | | | | | | | | | | | | | | |
| F | Fuse, Rated 10A | Vt | Voltage applied to Ct | | | | | | | | | | | | | | | | | | | |

¹ "Room Condition" is defined as follows: Temperature: 15 ~ 35°C/Humidity: 45 ~ 75%/Atmospheric Pressure: 86 ~ 106 kPa.

Table 2 – Performance & Reliability: Test Methods and Conditions cont'd

| Item | | Specification | | Test Method | | | | | | | | | | | | | | | |
|----------------------|---|---|---------------------------|---|------|------------------|----------------|---|-----------|----|---|------------------|---|---|-----------|----|---|------------------|---|
| Passive Flammability | | The burning time should not exceed 30 seconds. The tissue paper should not ignite. | | <p>The capacitor under test is held into a flame and in a position which best promotes burning. Each specimen is exposed to the flame one time.</p> | | | | | | | | | | | | | | | |
| | | | | <p>Time of exposure to flame: 30 seconds Length of flame: 12 ±1 mm Gas burner length: 35 mm minimum Inside diameter: 0.5 ±0.1 mm Outside diameter: 0.9 mm maximum Gas butane gas purity: 95% minimum</p> | | | | | | | | | | | | | | | |
| Temperature Cycle | Appearance | No visual defect | | <p>The capacitor is subjected to 5 temperature cycles.</p> <p style="text-align: center;">(Temperature Cycle)</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Step</th> <th>Temperature (°C)</th> <th>Time (minutes)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-25 +0/-3</td> <td>30</td> </tr> <tr> <td>2</td> <td>Room temperature</td> <td>3</td> </tr> <tr> <td>3</td> <td>125 +3/-0</td> <td>30</td> </tr> <tr> <td>4</td> <td>Room temperature</td> <td>3</td> </tr> </tbody> </table> <p>Pre-treatment: Capacitor shall be stored at 85 ±2 for 1 hour then placed at room condition¹ for 24 ±2 hours. Post-treatment: Capacitor is stored for 1 to 2 hours at room condition¹.</p> | Step | Temperature (°C) | Time (minutes) | 1 | -25 +0/-3 | 30 | 2 | Room temperature | 3 | 3 | 125 +3/-0 | 30 | 4 | Room temperature | 3 |
| | Step | Temperature (°C) | Time (minutes) | | | | | | | | | | | | | | | | |
| | 1 | -25 +0/-3 | 30 | | | | | | | | | | | | | | | | |
| | 2 | Room temperature | 3 | | | | | | | | | | | | | | | | |
| | 3 | 125 +3/-0 | 30 | | | | | | | | | | | | | | | | |
| | 4 | Room temperature | 3 | | | | | | | | | | | | | | | | |
| Capacitance | Temperature Characteristics | | Capacitance Change | | | | | | | | | | | | | | | | |
| | SL, CH (NP0) | Within ±5% | | | | | | | | | | | | | | | | | |
| | Y5P | Within ±10% | | | | | | | | | | | | | | | | | |
| Y5U, Y5V | Within ±20% | | | | | | | | | | | | | | | | | | |
| DF/Q | SL, CH (NP0) | ≥30 pF: Q ≥ 350 <30 pF: Q ≥ 275 +5/2C C = Nominal capacitance | | | | | | | | | | | | | | | | | |
| | Y5P | DF ≤ 5% | | | | | | | | | | | | | | | | | |
| | Y5U, Y5V | DF ≤ 7.5% | | | | | | | | | | | | | | | | | |
| IR | 3,000 MΩ minimum SL and CH (NPO): 1,000 MΩ minimum | | | | | | | | | | | | | | | | | | |
| Dielectric Strength | No failures | | | | | | | | | | | | | | | | | | |

¹ "Room Condition" is defined as follows: Temperature: 15 ~ 35°C/Humidity: 45 ~ 75%/Atmospheric Pressure: 86 ~ 106 kPa.

Soldering and Mounting Information

Soldering:

When soldering this product to a PCB/PWB, do not exceed the solder heat resistance specification of the capacitor. Subjecting this product to excessive heating could reflow the solder joint between the lead and ceramic element and/or may result in thermal shocks that can crack the ceramic element.

When soldering these capacitors with a soldering iron, it should be performed under the following conditions:

- Temperature of iron-tip: 400°C maximum
- Soldering iron wattage: 50 W maximum
- Soldering time: 3.5 seconds maximum

Cleaning (ultrasonic cleaning):

To perform ultrasonic cleaning, observe the following conditions:

- Rinse bath capacity: Output of 20 watts per liter or less
- Rinsing time: 5 minute maximum
- Do not vibrate the PCB/PWB directly
- Excessive ultrasonic cleaning may lead to fatigue destruction of the lead wires

Construction

| Reference | Item | Material |
|-----------|----------------------------|---|
| 1 | Encapsulation ¹ | Epoxy resin, Pigment (Blue/UL 94 V-0) |
| 2 | Dielectric Material | BaTiO ₃ |
| 3 | Solder | Sn 96.5, Ag 3, Cu 0.5 |
| 4 | Electrodes | Ag (Glass frit) |
| 5 | Lead Wires | Tinned copper clad steel wire (Sn Plating 100% 3-7 μm) |

¹ The minimum thickness of the insulation coating (encapsulation) is 0.4 mm

Note: Image is exaggerated in order to clearly identify all components of construction.



Capacitor Marking

These capacitors shall be stamped or laser marked with KEMET's trademark, type designation, capacitor class, rated voltage, rated capacitance, and capacitance tolerance codes. In addition, all devices are marked with the recognized approval mark and a date/lot code for traceability. Marking will be supplied either on one side or both sides of the encapsulated capacitor body. All marking shall be legible to allow for clear identification of the component. Marking appears in legible contrast. Illustrated below is an example of the marking format and content. (Two sided marking is limited to capacitors with body diameters ≤ 8.0 mm.)



| Location # | Description | Detail | | | | | | | | |
|--|---|--|-----------------------------|---|---|------|--|--------------------------------|---|-----------------------------|
| 1 | KEMET Trademark | | | | | | | | | |
| 2 ¹ | Type Designation (2 characters) | AH | | | | | | | | |
| 3 ¹ | Rated Capacitance (3 numeric characters) | First two digits are the significant figures of capacitance. Third digit indicates the additional number of zeros. For example, 2,200 pF is identified as 222. (For values below 10 pF an "R" is used in place of the decimal point, e.g., 2R0 = 2.0 pF.) | | | | | | | | |
| 4 | Capacitance Tolerance Code (1 character) | C = 0.25 pF, D = 0.5 pF, J = $\pm 5\%$, K = $\pm 10\%$, M = $\pm 20\%$ | | | | | | | | |
| 5 | VDE & ENEC approval mark IEC 60384-14 3rd (2005) | | | | | | | | | |
| 6 | Capacitor Class and Rated Voltage | X1: 400 V~ Y1: 250 V~ | | | | | | | | |
| 7 | Date/Lot Code | Date/Lot Code, e.g., 3C12345 <table border="1"> <thead> <tr> <th>3</th> <th>C</th> <th>1</th> <th>2345</th> </tr> </thead> <tbody> <tr> <td>Last digit of year, e.g., 3 = 2013</td> <td>Manufacturing Location Code</td> <td>Manufacturing Month: 1-9 = Jan - Sept A = October N = November D = December</td> <td>Last 4 digits of lot no.</td> </tr> </tbody> </table> | 3 | C | 1 | 2345 | Last digit of year, e.g., 3 = 2013 | Manufacturing Location Code | Manufacturing Month: 1-9 = Jan - Sept A = October N = November D = December | Last 4 digits of lot no. |
| 3 | C | 1 | 2345 | | | | | | | |
| Last digit of year, e.g., 3 = 2013 | Manufacturing Location Code | Manufacturing Month: 1-9 = Jan - Sept A = October N = November D = December | Last 4 digits of lot no. | | | | | | | |

Packaging Quantities

| Packaging Type | Loose (Bulk Bag) | Carrier Tape Quantity |
|----------------|------------------|-------------------------------|
| | | (25.4 mm Pitch ¹) |
| Ammo Pack | N/A | 500 pieces/box |
| Bulk | 500 pieces/bag | N/A |

¹ For details regarding component pitch on carrier tape, see "Ammo Pack Taping Format" and "Ammo Pack Taping Specifications" sections of this document.

Figure 1 - Ammo Pack Taping Format (10 mm Lead Spacing)**Table 3 – Ammo Pack Taping Specifications**

| Lead Spacing | | 10 mm | |
|--|-----------------|---|------------------------|
| Lead Style | | Straight | Preformed ¹ |
| Item | Symbol | Dimensions (mm) | |
| Lead Spacing | F | 10.0 ±1.0 | |
| Component Pitch | P | 25.4 ±2 | |
| Sprocket Hole Pitch | P ₀ | 12.7 ±0.3 | |
| Sprocket Hole Center to Component Center | P ₂ | 12.7 ±1.5 | |
| Sprocket Hole Center to Lead Center | P ₁ | 7.7 ±1.5 | |
| Body Diameter | D | See "Product Ordering Codes and Ratings" section of this document. | |
| Component Alignment (side/side) | ΔS | 0 ±2.0 | |
| Carrier Tape Width | W | 18.0 +1.0/-0.5 | |
| Sprocket Hole Position | W ₁ | 9.0 ±0.5 | |
| Height to Seating Plane ² (preformed leads ¹) | H ₀ | N/A | 18.0 +2.0/-0 |
| Height to Seating Plane ² (straight leads) | H | 20.0 +1.5/-1.0 | N/A |
| Lead Protrusion | ℓ | 2.0 maximum | |
| Diameter of Sprocket Hole | D ₀ | 4.0 ±0.2 | |
| Lead Diameter | φd | 0.5 ±0.1 | |
| Carrier Tape Thickness | t ₁ | 0.6 ±0.3 | |
| Total Thickness (Carrier Tape, Hold-Down Tape and Lead) | t ₂ | 1.5 maximum | |
| Component Alignment (front/back) | Δh ₁ | 2.0 maximum | |
| | Δh ₂ | 2.0 maximum | |
| Cut Out Length | L | 11.0 maximum | |
| Hold-Down Tape Width | W ₀ | 11.0 minimum | |
| Hold-Down Tape Position | W ₂ | 1.5 ±1.5 | |
| Coating Extension on Leads (meniscus) | e | 3.0 maximum for straight lead; not to exceed the bend for preformed ¹ lead configurations. | |
| Body Thickness | T | See "Product Ordering Codes and Ratings" section of this document. | |

¹Preformed (crimped) lead configurations include vertical kink and outside kink. See "Lead Configurations" and "Ordering Information" sections of this document for further details.

²Also referred to as "lead length" in this document.

Application Notes:

Storage and Operating Conditions:

The insulating coating of these devices does not form an air and moisture-tight seal. Avoid exposure to moisture and do not use or store these devices in a corrosive atmosphere, especially where chloride gas, sulfide gas, acid, alkali, salt, or the like are present. Before cleaning, bonding or molding these devices, it is important to verify that your process does not affect product quality and performance. KEMET recommends testing and evaluating the performance of a cleaned, bonded or molded product prior to implementing and/or qualifying any of these processes. Store the capacitors where the temperature and relative humidity do not exceed 40 degrees Centigrade and 70% respectively. For optimum solderability, capacitor stock should be used promptly, preferably within 6 months of receipt.

Working Voltage:

Application voltage (V_{p-p} or V_{o-p}) must not exceed the voltage rating of the capacitor. Irregular voltages can be generated for a transient period of time when voltage is initially applied and/or removed from a circuit. It is important to choose a capacitor with a voltage rating greater than or equal to these irregular voltages.

| Voltage | DC Voltage | DC +AC Voltage | AC Voltage | Pulse Voltage (1) | Pulse Voltage (2) |
|------------------------|---|---|---|---|---|
| Positional Measurement |  |  |  |  |  |

Operating Temperature and Self-Generating Heat:

The surface temperature of a capacitor should be kept below the upper limit of its rated operating temperature range. Be sure to take into account the heat generated by the capacitor itself. When the capacitor is used in a high-frequency current, pulse current or similar current, it may self-generate heat due to dielectric loss. Temperature rise due to self-generated heating should not exceed 20°C (while operated at an atmosphere temperature of 25°C).

Handling - Vibration and Impact:

Do not expose these devices or their leads to excessive shock or vibration during use.

FAILURE TO FOLLOW THE ABOVE CAUTIONS MAY RESULT, WORST CASE, IN A SHORT CIRCUIT AND CAUSE FUMING OR PARTIAL DISPERSION WHEN THE PRODUCT IS USED.

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Kamen, Germany
Tel: 49-2307-438110

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

Asia

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Hong Kong
Tel: 852-2305-1168

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

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

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

Taipei, Taiwan
Tel: 886-2-27528585

Southeast Asia
Singapore
Tel: 65-6586-1900

Penang, Malaysia
Tel: 60-4-6430200

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

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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 indicated or that other measures may not be required.



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

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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