

## HIGH RELIABILITY — GR900

GR900 capacitors are intended for use in any application where the chance of failure must be reduced to the lowest possible level. While any well-made multilayer ceramic capacitor is an inherently reliable device, GR900 capacitors receive special attention in all phases of manufacture including:

- Raw Materials Selection
- Special Designs
- Clean Room Production
- Individual Batch Testing
- C-SAM (when applicable)
- Singular Batch Identity is Maintained
- Destructive Physical Analysis

These parts are well worth the added investment in comparison to the cost of a device or system failure.

Typical applications include:

Medical, Aerospace, Communication Satellites, Radar, Guidance Systems.

### SCREENING AND SAMPLE TESTS

Each batch receives the following testing/inspections:

#### Preliminary:

1. **Destructive Physical Analysis (DPA)** - A sample is pulled from each lot and examined per EIA-469 and KEMET's strict internal void and delamination criteria. Sampling plan is per MIL-PRF-123.

2. **C-SAM** - May be performed on batches failing to meet the DPA criteria for removal of marginal product. Not required on each lot.

#### Group A

1. **Thermal Shock** — Materials used in the construction of multilayer ceramic capacitors possess various thermal coefficients of expansion. To assure maximum uniformity, each part is temperature cycled in accordance to MIL-STD-202, Method 107, Condition A with Step 3 being 125°C. Number of cycles shall be 20 (100% of lot).

2. **Voltage Conditioning** — One of the most strenuous environments for any capacitor is the high temperature/high voltage test. All units are subject to twice-rated voltage to the units at the maximum rated temperature of 125°C for a minimum of 168 hours and a maximum of 264 hours. The voltage conditioning may be terminated at any time during 168 hours to 264 hours time interval that confirmed failures meet the requirements of the PDA during the last 48 hours of 1 unit or .4% (100% of lot).

**Optional Voltage Conditioning (Accelerated Voltage Conditioning)** — All conditions of the standard voltage conditioning apply with the exception of increased voltage and decreased test time. Refer to MIL-PRF-123 for the proper formula.

**\*Step 5 is performed on chips at this point (100% of lot).**

3. **Dielectric Withstanding Voltage** — 250% of the dc rated voltage at 25°C (100% of lot).

4. **Insulation Resistance** — The 25°C measurement with rated voltage applied shall be the lesser of 100 GΩ or 1000 megohm-microfarads (100% of lot).

\*5. **Insulation Resistance** — The 125°C measurement with rated voltage applied shall be the lesser of 10 GΩ or 100 megohm-microfarads (100% of lot). For chips, 125°C IR is performed prior to Step 3 above.

6. **Storage** at 150°C for 2 hours minimum without voltage applied followed by a 12-hour minimum stabilization period (temperature characteristic BX only).

7. **Capacitance** — Shall be within specified tolerance at 25°C (100% of lot). (Aging phenomenon is taken into account for BX dielectric to obtain capacitance.)

8. **Dissipation Factor** — Shall not exceed 2.5% for X7R (BX) dielectric, 0.15% for C0G (BP) dielectric at 25°C. (100% of lot.)

9. **Percent Defective Allowable (PDA)** — The overall PDA is 8% for parts outside the MIL-PRF-123 values. The PDA is per MIL-PRF-123 for all parts that are valid MIL-PRF-123 values. The PD includes steps 1 through 8 above with the following exceptions. Capacitance exclusion - capacitance values no more than 5% or .5pF, whichever is greater for BX characteristic or 1% or .3pF, whichever is greater for BP characteristic beyond specified tolerance limit, shall be removed from the lot but shall not be considered defective for determination of the PD.

Insulation Resistance at 25°C — Product which is not acceptable for twice the military limit but is acceptable per the military limit, is removed from the lot but shall not be considered defective for determination of the PD.

10. **Visual and Mechanical Examination** — Performed per MIL-PRF-123 criteria.

11. **Radiographic Examination (Leaded Devices Only)** — Radial devices receive a one-plane X-ray.

12. **Destructive Physical Analysis (DPA)** — A sample is examined on each lot per EIA-469. Sampling Plan is per MIL-PRF-123.

### STANDARD PACKAGING

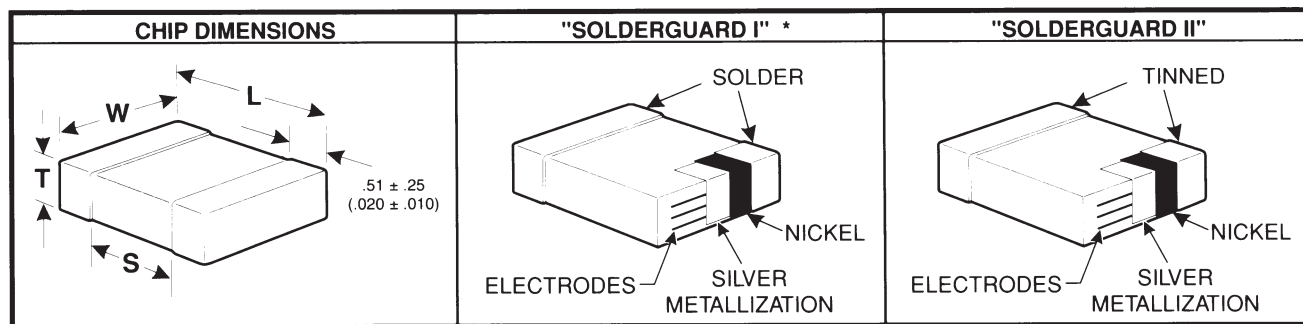
All products are packaged in trays except C512 capacitors which are packaged 1 piece per bag.

### DATA PACKAGE

A data package is sent with each shipment which contains:

1. Final Destructive Physical Analysis (DPA) report.
2. Certificate of Compliance stating that the parts meet all applicable requirements of the appropriate military specification to the best failure level to which KEMET is approved.
3. Summary of Group A Testing.

## CAPACITOR OUTLINE DRAWINGS



\* Add .38mm (.015") to the positive width and thickness tolerance dimensions and .64mm (.025") to the positive length tolerance dimension for Solderguard I.

## DIMENSIONS — MILLIMETERS (INCHES)

| Size Code | L<br>Length                 | W<br>Width                  | T<br>Thickness<br>Max. |
|-----------|-----------------------------|-----------------------------|------------------------|
| 0504      | 1.269 (.050) ± 0.254 (.010) | 1.015 (.040) ± 0.254 (.010) | 1.142 (.045)           |
| 0805      | 2.03 (.080) ± 0.38 (.015)   | 1.27 (.050) ± 0.38 (.015)   | 1.4 (.055)             |
| 1005      | 2.56 (.100) ± 0.38 (.015)   | 1.27 (.050) ± 0.38 (.015)   | 1.5 (.059)             |
| 1206      | 3.07 (.120) ± 0.38 (.015)   | 1.52 (.060) ± 0.38 (.015)   | 1.6 (.065)             |
| 1210      | 3.07 (.120) ± 0.38 (.015)   | 2.56 (.100) ± 0.38 (.015)   | 1.6 (.065)             |
| 1805      | 4.57 (.180) ± 0.38 (.015)   | 1.27 (.050) ± 0.38 (.015)   | 1.4 (.055)             |
| 1808      | 4.57 (.180) ± 0.38 (.015)   | 2.03 (.080) ± 0.38 (.015)   | 1.6 (.065)             |
| 1812      | 4.57 (.180) ± 0.38 (.015)   | 3.18 (.125) ± 0.38 (.015)   | 2.03 (.080)            |
| 1825      | 4.57 (.180) ± 0.38 (.015)   | 6.35 (.250) ± 0.38 (.015)   | 2.03 (.080)            |
| 2225      | 5.59 (.220) ± 0.38 (.015)   | 6.35 (.250) ± 0.38 (.015)   | 2.03 (.080)            |

## ORDERING INFORMATION

|                                                                                                                                                                                                                                                                                          |          |             |          |            |          |          |          |          |          |                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|----------|------------|----------|----------|----------|----------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CERAMIC SIZE CODE</b><br>See table above                                                                                                                                                                                                                                              | <b>C</b> | <b>0805</b> | <b>A</b> | <b>103</b> | <b>K</b> | <b>5</b> | <b>X</b> | <b>A</b> | <b>C</b> | <b>END METALLIZATION</b><br>C—Tin-Coated, Final (SolderGuard II)<br>H—Solder-Coated, Final (SolderGuard I)<br>L—70/30 Tin/Lead Plated (4Q2007)<br>G—Gold Plated |
| <b>SPECIFICATION</b><br>A — KEMET GR900 (CHIPS); Q — MIL-PRF-123 In Process & Group A                                                                                                                                                                                                    |          |             |          |            |          |          |          |          |          |                                                                                                                                                                 |
| <b>CAPACITANCE CODE</b><br>Expressed in Picofarads (pF)<br>First two digit-significant figures.<br>Third digit-number of zeros. (Use 9 for 1.0 thru 9.9 pF.<br>Example: 2.2 pF — 229).                                                                                                   |          |             |          |            |          |          |          |          |          |                                                                                                                                                                 |
| <b>CAPACITANCE TOLERANCE</b><br>M — ±20%    G — ±2% (G(BP) Temperature Characteristic Only)<br>K — ±10%    F — ±1% (G(BP) Temperature Characteristic Only)<br>J — ±5%      *D — ±0.5 pF (G(BP) Temperature Characteristic Only)<br>*C — ±0.25 pF (G(BP) Temperature Characteristic Only) |          |             |          |            |          |          |          |          |          |                                                                                                                                                                 |
| <b>VOLTAGE</b><br>1—100<br>2—200<br>5—50                                                                                                                                                                                                                                                 |          |             |          |            |          |          |          |          |          |                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                          |          |             |          |            |          |          |          |          |          | <b>FAILURE RATE LEVEL (%/1,000 HOURS)</b><br>A—Standard—Not applicable                                                                                          |
|                                                                                                                                                                                                                                                                                          |          |             |          |            |          |          |          |          |          | <b>TEMPERATURE CHARACTERISTIC</b><br>Designated by Capacitance Change over Temperature Range<br>G—BP (±30 PPM/°C)<br>X—BX (±15%, +15%, -25% with bias.)         |

## MARKING

Capacitors shall be legibly laser marked in contrasting color with the KEMET trademark and 2-digit capacitance symbol.

### RATINGS AND PART NUMBER REFERENCE

#### STYLE C0805

| CAPACITANCE<br>pF    | KEMET<br>PART NUMBER |
|----------------------|----------------------|
| <b>200 VOLT - BP</b> |                      |
| 1.0                  | C0504A109(1)2GA(2)   |
| 1.1                  | C0504A119(1)2GA(2)   |
| 1.2                  | C0504A129(1)2GA(2)   |
| 1.5                  | C0504A159(1)2GA(2)   |
| 1.6                  | C0504A169(1)2GA(2)   |
| 1.8                  | C0504A189(1)2GA(2)   |
| 2.0                  | C0504A209(1)2GA(2)   |
| 2.2                  | C0504A229(1)2GA(2)   |
| 2.4                  | C0504A249(1)2GA(2)   |
| 2.7                  | C0504A279(1)2GA(2)   |
| 3.0                  | C0504A309(1)2GA(2)   |
| 3.3                  | C0504A339(1)2GA(2)   |
| 3.6                  | C0504A369(1)2GA(2)   |
| 3.9                  | C0504A399(1)2GA(2)   |
| 4.3                  | C0504A439(1)2GA(2)   |
| 4.7                  | C0504A479(1)2GA(2)   |
| 5.1                  | C0504A519(1)2GA(2)   |
| 5.6                  | C0504A569(1)2GA(2)   |
| 6.2                  | C0504A629(1)2GA(2)   |
| 6.8                  | C0504A689(1)2GA(2)   |
| 7.5                  | C0504A759(1)2GA(2)   |
| 8.2                  | C0504A829(1)2GA(2)   |
| 9.1                  | C0504A919(1)2GA(2)   |
| 10.0                 | C0504A100(1)2GA(2)   |
| 11.0                 | C0504A110(1)2GA(2)   |
| 12.0                 | C0504A120(1)2GA(2)   |
| 13.0                 | C0504A130(1)2GA(2)   |
| 15.0                 | C0504A150(1)2GA(2)   |
| 16.0                 | C0504A160(1)2GA(2)   |
| 18.0                 | C0504A180(1)2GA(2)   |
| 20.0                 | C0504A200(1)2GA(2)   |
| 22.0                 | C0504A220(1)2GA(2)   |
| 24.0                 | C0504A240(1)2GA(2)   |
| 27.0                 | C0504A270(1)2GA(2)   |
| 30.0                 | C0504A300(1)2GA(2)   |
| 33.0                 | C0504A330(1)2GA(2)   |
| 36.0                 | C0504A360(1)2GA(2)   |
| 39.0                 | C0504A390(1)2GA(2)   |
| 43.0                 | C0504A430(1)2GA(2)   |
| 47.0                 | C0504A470(1)2GA(2)   |
| 51.0                 | C0504A510(1)2GA(2)   |
| 56.0                 | C0504A560(1)2GA(2)   |
| 62.0                 | C0504A620(1)2GA(2)   |
| 75.0                 | C0504A750(1)2GA(2)   |
| 82.0                 | C0504A820(1)2GA(2)   |
| <b>100 VOLT - BP</b> |                      |
| 91.0                 | C0504A910(1)1GA(2)   |
| 100                  | C0504A101(1)1GA(2)   |
| 110                  | C0504A111(1)1GA(2)   |
| 120                  | C0504A121(1)1GA(2)   |
| 130                  | C0504A131(1)1GA(2)   |
| <b>50 VOLT - BP</b>  |                      |
| 150                  | C0504A151(1)5GA(2)   |
| 160                  | C0504A161(1)5GA(2)   |
| 180                  | C0504A181(1)5GA(2)   |

| CAPACITANCE<br>pF    | KEMET<br>PART NUMBER |
|----------------------|----------------------|
| <b>200 VOLT - BX</b> |                      |
| 220                  | C0504A221(1)2XA(2)   |
| 270                  | C0504A271(1)2XA(2)   |
| 330                  | C0504A331(1)2XA(2)   |
| <b>100 VOLT - BX</b> |                      |
| 360                  | C0504A361(1)1XA(2)   |
| 390                  | C0504A391(1)1XA(2)   |
| 470                  | C0504A471(1)1XA(2)   |
| 560                  | C0504A561(1)1XA(2)   |
| 680                  | C0504A681(1)1XA(2)   |
| 820                  | C0504A821(1)1XA(2)   |
| 1000                 | C0504A102(1)1XA(2)   |
| 1200                 | C0504A122(1)1XA(2)   |

| CAPACITANCE<br>pF   | KEMET<br>PART NUMBER |
|---------------------|----------------------|
| <b>50 VOLT - BX</b> |                      |
| 1500                | C0504A152(1)5XA(2)   |
| 1800                | C0504A182(1)5XA(2)   |
| 2200                | C0504A222(1)5XA(2)   |
| 2700                | C0504A272(1)5XA(2)   |
| 3300                | C0504A332(1)5XA(2)   |
| 3900                | C0504A392(1)5XA(2)   |
| 4700                | C0504A472(1)5XA(2)   |
| 5600                | C0504A562(1)5XA(2)   |
| 6800                | C0504A682(1)5XA(2)   |

| CAPACITANCE<br>pF    | KEMET<br>PART NUMBER |
|----------------------|----------------------|
| <b>200 VOLT - BP</b> |                      |
| 1.0                  | C0805A109(1)2GA(2)   |
| 1.1                  | C0805A119(1)2GA(2)   |
| 1.2                  | C0805A129(1)2GA(2)   |
| 1.5                  | C0805A159(1)2GA(2)   |
| 1.6                  | C0805A169(1)2GA(2)   |
| 1.8                  | C0805A189(1)2GA(2)   |
| 2.0                  | C0805A209(1)2GA(2)   |
| 2.2                  | C0805A229(1)2GA(2)   |
| 2.4                  | C0805A249(1)2GA(2)   |
| 2.7                  | C0805A279(1)2GA(2)   |
| 3.0                  | C0805A309(1)2GA(2)   |
| 3.3                  | C0805A339(1)2GA(2)   |
| 3.6                  | C0805A369(1)2GA(2)   |
| 3.9                  | C0805A399(1)2GA(2)   |
| 4.3                  | C0805A439(1)2GA(2)   |
| 4.7                  | C0805A479(1)2GA(2)   |
| 5.1                  | C0805A519(1)2GA(2)   |
| 5.6                  | C0805A569(1)2GA(2)   |
| 6.2                  | C0805A629(1)2GA(2)   |
| 6.8                  | C0805A689(1)2GA(2)   |
| 7.5                  | C0805A759(1)2GA(2)   |
| 8.2                  | C0805A829(1)2GA(2)   |
| 9.1                  | C0805A919(1)2GA(2)   |
| 10.0                 | C0805A100(1)2GA(2)   |
| 11.0                 | C0805A110(1)2GA(2)   |
| 12.0                 | C0805A120(1)2GA(2)   |
| 13.0                 | C0805A130(1)2GA(2)   |
| 15.0                 | C0805A150(1)2GA(2)   |
| 16.0                 | C0805A160(1)2GA(2)   |
| 18.0                 | C0805A180(1)2GA(2)   |
| 20.0                 | C0805A200(1)2GA(2)   |
| 22.0                 | C0805A220(1)2GA(2)   |
| 24.0                 | C0805A240(1)2GA(2)   |
| 27.0                 | C0805A270(1)2GA(2)   |
| 30.0                 | C0805A300(1)2GA(2)   |
| 33.0                 | C0805A330(1)2GA(2)   |
| 36.0                 | C0805A360(1)2GA(2)   |
| 39.0                 | C0805A390(1)2GA(2)   |
| 43.0                 | C0805A430(1)2GA(2)   |
| 47.0                 | C0805A470(1)2GA(2)   |
| 51.0                 | C0805A510(1)2GA(2)   |
| 56.0                 | C0805A560(1)2GA(2)   |
| 62.0                 | C0805A620(1)2GA(2)   |
| 75.0                 | C0805A750(1)2GA(2)   |
| 82.0                 | C0805A820(1)2GA(2)   |
| 91.0                 | C0805A910(1)2GA(2)   |
| 100                  | C0805A101(1)2GA(2)   |
| 110                  | C0805A111(1)2GA(2)   |
| 120                  | C0805A121(1)2GA(2)   |
| 130                  | C0805A131(1)2GA(2)   |
| 150                  | C0805A151(1)2GA(2)   |
| 160                  | C0805A161(1)2GA(2)   |
| 180                  | C0805A181(1)2GA(2)   |
| 200                  | C0805A201(1)2GA(2)   |
| 220                  | C0805A221(1)2GA(2)   |

| CAPACITANCE<br>pF    | KEMET<br>PART NUMBER |
|----------------------|----------------------|
| <b>100 VOLT - BP</b> |                      |
| 240                  | C0805A241(1)1GA(2)   |
| 270                  | C0805A271(1)1GA(2)   |
| 300                  | C0805A301(1)1GA(2)   |
| 330                  | C0805A331(1)1GA(2)   |
| 360                  | C0805A361(1)1GA(2)   |
| 390                  | C0805A391(1)1GA(2)   |
| 430                  | C0805A431(1)1GA(2)   |
| 470                  | C0805A471(1)1GA(2)   |
| <b>50 VOLT - BP</b>  |                      |
| 510                  | C0805A511(1)5GA(2)   |
| 560                  | C0805A561(1)5GA(2)   |

| CAPACITANCE<br>pF    | KEMET<br>PART NUMBER |
|----------------------|----------------------|
| <b>200 VOLT - BX</b> |                      |
| 180                  | C0805A181(1)2XA(2)   |
| 220                  | C0805A221(1)2XA(2)   |
| 270                  | C0805A271(1)2XA(2)   |
| 330                  | C0805A331(1)2XA(2)   |
| 390                  | C0805A391(1)2XA(2)   |
| 470                  | C0805A471(1)2XA(2)   |
| 560                  | C0805A561(1)2XA(2)   |
| 680                  | C0805A681(1)2XA(2)   |
| 820                  | C0805A821(1)2XA(2)   |
| <b>100 VOLT - BX</b> |                      |
| 1000                 | C0805A102(1)1XA(2)   |
| 1200                 | C0805A122(1)1XA(2)   |
| 1500                 | C0805A152(1)1XA(2)   |
| 1800                 | C0805A182(1)1XA(2)   |
| 2200                 | C0805A222(1)1XA(2)   |
| 3300                 | C0805A332(1)1XA(2)   |
| 3900                 | C0805A392(1)1XA(2)   |
| 4700                 | C0805A472(1)1XA(2)   |
| <b>50 VOLT - BX</b>  |                      |
| 6800                 | C0805A562(1)5XA(2)   |
| 8200                 | C0805A682(1)5XA(2)   |
| 10000                | C0805A103(1)5XA(2)   |

(1) Complete KEMET part number by inserting capacitance tolerance, as applicable as shown in ordering information on page 17.

**BP CAPACITANCE TOLERANCE:** ±1%, ±2%, ±5%, ±10%, ±20% (±0.5pF & ±0.25pF tolerances available 1.0 thru 10pF only) TEMPERATURE CHARACTERISTIC "G"

**BX CAPACITANCE TOLERANCE:** ±5%, ±10%, ±20% TEMPERATURE CHARACTERISTIC "X"

(2) Complete part number by inserting end Metallization, as applicable as shown in ordering information on page 17.

C—Tin-Coated, Final (SolderGuard II)  
H—Solder-Coated, Final (SolderGuard I)  
L—70/30 Tin/Lead Plated  
G—Gold Plated

## RATINGS AND PART NUMBER REFERENCE STYLE C1005

| CAPACITANCE<br>pF    | KEMET<br>PART NUMBER |
|----------------------|----------------------|
| <b>200 VOLT - BP</b> |                      |
| 1.0                  | C1005A109(1)2GA(2)   |
| 1.1                  | C1005A119(1)2GA(2)   |
| 1.2                  | C1005A129(1)2GA(2)   |
| 1.5                  | C1005A159(1)2GA(2)   |
| 1.6                  | C1005A169(1)2GA(2)   |
| 1.8                  | C1005A189(1)2GA(2)   |
| 2.0                  | C1005A209(1)2GA(2)   |
| 2.2                  | C1005A229(1)2GA(2)   |
| 2.4                  | C1005A249(1)2GA(2)   |
| 2.7                  | C1005A279(1)2GA(2)   |
| 3.0                  | C1005A309(1)2GA(2)   |
| 3.3                  | C1005A339(1)2GA(2)   |
| 3.6                  | C1005A369(1)2GA(2)   |
| 3.9                  | C1005A399(1)2GA(2)   |
| 4.3                  | C1005A439(1)2GA(2)   |
| 4.7                  | C1005A479(1)2GA(2)   |
| 5.1                  | C1005A519(1)2GA(2)   |
| 5.6                  | C1005A569(1)2GA(2)   |
| 6.8                  | C1005A689(1)2GA(2)   |
| 7.5                  | C1005A759(1)2GA(2)   |
| 8.2                  | C1005A829(1)2GA(2)   |
| 9.1                  | C1005A919(1)2GA(2)   |
| 10.0                 | C1005A100(1)2GA(2)   |
| 11.0                 | C1005A110(1)2GA(2)   |
| 12.0                 | C1005A120(1)2GA(2)   |
| 13.0                 | C1005A130(1)2GA(2)   |
| 15.0                 | C1005A150(1)2GA(2)   |
| 16.0                 | C1005A160(1)2GA(2)   |
| 18.0                 | C1005A180(1)2GA(2)   |
| 20.0                 | C1005A200(1)2GA(2)   |
| 22.0                 | C1005A220(1)2GA(2)   |
| 24.0                 | C1005A240(1)2GA(2)   |
| 27.0                 | C1005A270(1)2GA(2)   |
| 30.0                 | C1005A300(1)2GA(2)   |
| 33.0                 | C1005A330(1)2GA(2)   |
| 36.0                 | C1005A360(1)2GA(2)   |
| 39.0                 | C1005A390(1)2GA(2)   |
| 43.0                 | C1005A430(1)2GA(2)   |
| 47.0                 | C1005A470(1)2GA(2)   |
| 51.0                 | C1005A510(1)2GA(2)   |
| 56.0                 | C1005A560(1)2GA(2)   |
| 62.0                 | C1005A620(1)2GA(2)   |
| 75.0                 | C1005A750(1)2GA(2)   |
| 82.0                 | C1005A820(1)2GA(2)   |
| 91.0                 | C1005A910(1)2GA(2)   |
| 100                  | C1005A101(1)2GA(2)   |
| 110                  | C1005A111(1)2GA(2)   |
| 120                  | C1005A121(1)2GA(2)   |
| 130                  | C1005A131(1)2GA(2)   |
| 150                  | C1005A151(1)2GA(2)   |
| 160                  | C1005A161(1)2GA(2)   |

| CAPACITANCE<br>pF    | KEMET<br>PART NUMBER |
|----------------------|----------------------|
| <b>200 VOLT - BP</b> |                      |
| 180                  | C1005A181(1)2GA(2)   |
| 200                  | C1005A201(1)2GA(2)   |
| 220                  | C1005A221(1)2GA(2)   |
| 240                  | C1005A241(1)2GA(2)   |
| 270                  | C1005A271(1)2GA(2)   |
| 300                  | C1005A301(1)2GA(2)   |
| 330                  | C1005A331(1)2GA(2)   |
| 360                  | C1005A361(1)2GA(2)   |
| 390                  | C1005A391(1)2GA(2)   |
| 430                  | C1005A431(1)2GA(2)   |
| 470                  | C1005A471(1)2GA(2)   |
| <b>100 VOLT - BP</b> |                      |
| 510                  | C1005A511(1)1GA(2)   |
| 560                  | C1005A561(1)1GA(2)   |
| 620                  | C1005A621(1)1GA(2)   |
| 680                  | C1005A681(1)1GA(2)   |
| 750                  | C1005A751(1)1GA(2)   |
| 820                  | C1005A821(1)1GA(2)   |
| <b>50 VOLT - BP</b>  |                      |
| 910                  | C1005A911(1)5GA(2)   |
| 1000                 | C1005A102(1)5GA(2)   |
| 1100                 | C1005A112(1)5GA(2)   |
| 1200                 | C1005A122(1)5GA(2)   |
| <b>200 VOLT - BX</b> |                      |
| 330                  | C1005A331(1)2XA(2)   |
| 390                  | C1005A391(1)2XA(2)   |
| 470                  | C1005A471(1)2XA(2)   |
| 560                  | C1005A561(1)2XA(2)   |
| 680                  | C1005A681(1)2XA(2)   |
| 820                  | C1005A821(1)2XA(2)   |
| 1000                 | C1005A102(1)2XA(2)   |
| 1200                 | C1005A122(1)2XA(2)   |
| 1500                 | C1005A152(1)2XA(2)   |
| 1800                 | C1005A182(1)2XA(2)   |
| <b>100 VOLT - BX</b> |                      |
| 2200                 | C1005A222(1)1XA(2)   |
| 2700                 | C1005A272(1)1XA(2)   |
| 3300                 | C1005A332(1)1XA(2)   |
| 3900                 | C1005A392(1)1XA(2)   |
| 4700                 | C1005A472(1)1XA(2)   |
| 5600                 | C1005A562(1)1XA(2)   |
| 6800                 | C1005A682(1)1XA(2)   |
| 8200                 | C1005A822(1)1XA(2)   |
| 10,000               | C1005A103(1)1XA(2)   |
| <b>50 VOLT - BX</b>  |                      |
| 12,000               | C1005A123(1)5XA(2)   |
| 15,000               | C1005A153(1)5XA(2)   |
| 18,000               | C1005A183(1)5XA(2)   |
| 22,000               | C1005A223(1)5XA(2)   |

## RATINGS AND PART NUMBER REFERENCE STYLE C1206

| CAPACITANCE<br>pF    | KEMET<br>PART NUMBER |
|----------------------|----------------------|
| <b>200 VOLT - BP</b> |                      |
| 10.0                 | C1206A100(1)2GA(2)   |
| 11.0                 | C1206A110(1)2GA(2)   |
| 12.0                 | C1206A120(1)2GA(2)   |
| 13.0                 | C1206A130(1)2GA(2)   |
| 15.0                 | C1206A150(1)2GA(2)   |
| 16.0                 | C1206A160(1)2GA(2)   |
| 18.0                 | C1206A180(1)2GA(2)   |
| 20.0                 | C1206A200(1)2GA(2)   |
| 22.0                 | C1206A220(1)2GA(2)   |
| 24.0                 | C1206A240(1)2GA(2)   |

| CAPACITANCE<br>pF    | KEMET<br>PART NUMBER |
|----------------------|----------------------|
| <b>200 VOLT - BP</b> |                      |
| 27.0                 | C1206A270(1)2GA(2)   |
| 30.0                 | C1206A300(1)2GA(2)   |
| 33.0                 | C1206A330(1)2GA(2)   |
| 36.0                 | C1206A360(1)2GA(2)   |
| 39.0                 | C1206A390(1)2GA(2)   |
| 43.0                 | C1206A430(1)2GA(2)   |
| 47.0                 | C1206A470(1)2GA(2)   |
| 51.0                 | C1206A510(1)2GA(2)   |
| 56.0                 | C1206A560(1)2GA(2)   |
| 62.0                 | C1206A620(1)2GA(2)   |

(1) Complete KEMET part number by inserting capacitance tolerance, as applicable as shown in ordering information on page 17.  
**BP CAPACITANCE TOLERANCE:** ±1%, ±2%, ±5%, ±10%, ±20% (±0.5pF & ±0.25pF tolerances available 1.0 thru 10pF only) **TEMPERATURE CHARACTERISTIC "G"**  
**BX CAPACITANCE TOLERANCE:** ±5%, ±10%, ±20% **TEMPERATURE CHARACTERISTIC "X"**  
 (2) Complete part number by inserting end Metallization, as applicable as shown in ordering information on page 17.  
 C—Tin-Coated, Final (SolderGuard II) H—Solder-Coated, Final (SolderGuard II) L—70/30 Tin Lead Plated G—Gold Plated



### RATINGS AND PART NUMBER REFERENCE

#### STYLE C1206 (continued)

| CAPACITANCE<br>pF    | KEMET<br>PART NUMBER |
|----------------------|----------------------|
| <b>200 VOLT - BP</b> |                      |
| 68.0                 | C1206A680(1)2GA(2)   |
| 75.0                 | C1206A750(1)2GA(2)   |
| 82.0                 | C1206A820(1)2GA(2)   |
| 91.0                 | C1206A910(1)2GA(2)   |
| 100                  | C1206A101(1)2GA(2)   |
| 110                  | C1206A111(1)2GA(2)   |
| 120                  | C1206A121(1)2GA(2)   |
| 130                  | C1206A131(1)2GA(2)   |
| 150                  | C1206A151(1)2GA(2)   |
| 160                  | C1206A161(1)2GA(2)   |
| 180                  | C1206A181(1)2GA(2)   |
| 200                  | C1206A201(1)2GA(2)   |
| 220                  | C1206A221(1)2GA(2)   |
| 240                  | C1206A241(1)2GA(2)   |
| 270                  | C1206A271(1)2GA(2)   |
| 300                  | C1206A301(1)2GA(2)   |
| 330                  | C1206A331(1)2GA(2)   |
| 360                  | C1206A361(1)2GA(2)   |
| 390                  | C1206A391(1)2GA(2)   |
| 430                  | C1206A431(1)2GA(2)   |
| 470                  | C1206A471(1)2GA(2)   |
| <b>100 VOLT - BP</b> |                      |
| 510                  | C1206A511(1)1GA(2)   |
| 560                  | C1206A561(1)1GA(2)   |
| 620                  | C1206A621(1)1GA(2)   |
| 680                  | C1206A681(1)1GA(2)   |
| 750                  | C1206A751(1)1GA(2)   |
| 820                  | C1206A821(1)1GA(2)   |
| 910                  | C1206A911(1)1GA(2)   |
| 1000                 | C1206A102(1)1GA(2)   |
| 1100                 | C1206A112(1)1GA(2)   |
| 1200                 | C1206A122(1)1GA(2)   |
| 1300                 | C1206A132(1)1GA(2)   |
| 1500                 | C1206A152(1)1GA(2)   |
| 1600                 | C1206A162(1)1GA(2)   |

| CAPACITANCE<br>pF    | KEMET<br>PART NUMBER |
|----------------------|----------------------|
| <b>50 VOLT - BP</b>  |                      |
| 1800                 | C1206A182(1)5GA(2)   |
| 2000                 | C1206A202(1)5GA(2)   |
| <b>200 VOLT - BX</b> |                      |
| 470                  | C1206A471(1)2XA(2)   |
| 560                  | C1206A561(1)2XA(2)   |
| 680                  | C1206A681(1)2XA(2)   |
| 820                  | C1206A821(1)2XA(2)   |
| 1000                 | C1206A102(1)2XA(2)   |
| 1200                 | C1206A122(1)2XA(2)   |
| 1500                 | C1206A152(1)2XA(2)   |
| 1800                 | C1206A182(1)2XA(2)   |
| 2200                 | C1206A222(1)2XA(2)   |
| 2700                 | C1206A272(1)2XA(2)   |
| 3300                 | C1206A332(1)2XA(2)   |
| 3900                 | C1206A392(1)2XA(2)   |
| 4700                 | C1206A472(1)2XA(2)   |
| <b>100 VOLT - BX</b> |                      |
| 5600                 | C1206A562(1)1XA(2)   |
| 6800                 | C1206A682(1)1XA(2)   |
| 8200                 | C1206A822(1)1XA(2)   |
| 10,000               | C1206A103(1)1XA(2)   |
| 12,000               | C1206A123(1)1XA(2)   |
| 15,000               | C1206A153(1)1XA(2)   |
| <b>50 VOLT - BX</b>  |                      |
| 18,000               | C1206A183(1)5XA(2)   |
| 22,000               | C1206A223(1)5XA(2)   |
| 27,000               | C1206A273(1)5XA(2)   |
| 33,000               | C1206A333(1)5XA(2)   |
| 39,000               | C1206A393(1)5XA(2)   |
| 47,000               | C1206A473(1)5XA(2)   |

### RATINGS AND PART NUMBER REFERENCE

#### STYLE C1210

| CAPACITANCE<br>pF    | KEMET<br>PART NUMBER |
|----------------------|----------------------|
| <b>200 VOLT - BP</b> |                      |
| 10.0                 | C1210A100(1)2GA(2)   |
| 11.0                 | C1210A110(1)2GA(2)   |
| 12.0                 | C1210A120(1)2GA(2)   |
| 13.0                 | C1210A130(1)2GA(2)   |
| 15.0                 | C1210A150(1)2GA(2)   |
| 16.0                 | C1210A160(1)2GA(2)   |
| 18.0                 | C1210A180(1)2GA(2)   |
| 20.0                 | C1210A200(1)2GA(2)   |
| 22.0                 | C1210A220(1)2GA(2)   |
| 24.0                 | C1210A240(1)2GA(2)   |
| 27.0                 | C1210A270(1)2GA(2)   |
| 30.0                 | C1210A300(1)2GA(2)   |
| 33.0                 | C1210A330(1)2GA(2)   |
| 36.0                 | C1210A360(1)2GA(2)   |
| 39.0                 | C1210A390(1)2GA(2)   |
| 43.0                 | C1210A430(1)2GA(2)   |
| 47.0                 | C1210A470(1)2GA(2)   |
| 51.0                 | C1210A510(1)2GA(2)   |
| 56.0                 | C1210A560(1)2GA(2)   |
| 62.0                 | C1210A620(1)2GA(2)   |
| 68.0                 | C1210A680(1)2GA(2)   |
| 75.0                 | C1210A750(1)2GA(2)   |
| 82.0                 | C1210A820(1)2GA(2)   |
| 91.0                 | C1210A910(1)2GA(2)   |
| 100                  | C1210A101(1)2GA(2)   |
| 110                  | C1210A111(1)2GA(2)   |
| 120                  | C1210A121(1)2GA(2)   |

| CAPACITANCE<br>pF    | KEMET<br>PART NUMBER |
|----------------------|----------------------|
| <b>200 VOLT - BP</b> |                      |
| 130                  | C1210A131(1)2GA(2)   |
| 150                  | C1210A151(1)2GA(2)   |
| 160                  | C1210A161(1)2GA(2)   |
| 180                  | C1210A181(1)2GA(2)   |
| 200                  | C1210A201(1)2GA(2)   |
| 220                  | C1210A221(1)2GA(2)   |
| 240                  | C1210A241(1)2GA(2)   |
| 270                  | C1210A271(1)2GA(2)   |
| 300                  | C1210A301(1)2GA(2)   |
| 330                  | C1210A331(1)2GA(2)   |
| 360                  | C1210A361(1)2GA(2)   |
| 390                  | C1210A391(1)2GA(2)   |
| 430                  | C1210A431(1)2GA(2)   |
| 470                  | C1210A471(1)2GA(2)   |
| 510                  | C1210A511(1)2GA(2)   |
| 560                  | C1210A561(1)2GA(2)   |
| 620                  | C1210A621(1)2GA(2)   |
| 680                  | C1210A681(1)2GA(2)   |
| 750                  | C1210A751(1)2GA(2)   |
| 820                  | C1210A821(1)2GA(2)   |
| 910                  | C1210A911(1)2GA(2)   |
| 1000                 | C1210A102(1)2GA(2)   |

(1) Complete KEMET part number by inserting capacitance tolerance, as applicable as shown in ordering information on page 17.  
**BP CAPACITANCE TOLERANCE:** ±1%, ±2%, ±5%, ±10%, ±20% (±0.5pF & ±0.25pF tolerances available 1.0 thru 10pF only) **TEMPERATURE CHARACTERISTIC "G"**  
**BX CAPACITANCE TOLERANCE:** ±5%, ±10%, ±20% **TEMPERATURE CHARACTERISTIC "X"**  
 (2) Complete part number by inserting end Metallization, as applicable as shown in ordering information on page 17.  
 C—Tin-Coated, Final (SolderGuard II) H—Solder-Coated, Final (SolderGuard II)  
 L—70/30 Tin/Lead Plated G—Gold Plated

## RATINGS AND PART NUMBER REFERENCE STYLE C1210 (continued)

| CAPACITANCE<br>pF    | KEMET<br>PART NUMBER |
|----------------------|----------------------|
| <b>100 VOLT - BP</b> |                      |
| 1100                 | C1210A112(1)1GA(2)   |
| 1200                 | C1210A122(1)1GA(2)   |
| 1300                 | C1210A132(1)1GA(2)   |
| 1500                 | C1210A152(1)1GA(2)   |
| 1600                 | C1210A162(1)1GA(2)   |
| 1800                 | C1210A182(1)1GA(2)   |
| 2000                 | C1210A202(1)1GA(2)   |
| 2200                 | C1210A222(1)1GA(2)   |
| 2400                 | C1210A242(1)1GA(2)   |
| 2700                 | C1210A272(1)1GA(2)   |
| 3000                 | C1210A302(1)1GA(2)   |
| 3300                 | C1210A332(1)1GA(2)   |
| <b>50 VOLT - BP</b>  |                      |
| 3600                 | C1210A362(1)5GA(2)   |
| 3900                 | C1210A392(1)5GA(2)   |
| <b>200 VOLT - BX</b> |                      |
| 470                  | C1210A471(1)2XA(2)   |
| 560                  | C1210A561(1)2XA(2)   |
| 680                  | C1210A681(1)2XA(2)   |
| 820                  | C1210A821(1)2XA(2)   |
| 1000                 | C1210A102(1)2XA(2)   |
| 1200                 | C1210A122(1)2XA(2)   |
| 1500                 | C1210A152(1)2XA(2)   |
| 1800                 | C1210A182(1)2XA(2)   |

| CAPACITANCE<br>pF    | KEMET<br>PART NUMBER |
|----------------------|----------------------|
| <b>200 VOLT - BX</b> |                      |
| 2200                 | C1210A222(1)2XA(2)   |
| 2700                 | C1210A272(1)2XA(2)   |
| 3300                 | C1210A332(1)2XA(2)   |
| 3900                 | C1210A392(1)2XA(2)   |
| 4700                 | C1210A472(1)2XA(2)   |
| 5600                 | C1210A562(1)2XA(2)   |
| 6800                 | C1210A682(1)2XA(2)   |
| 8200                 | C1210A822(1)2XA(2)   |
| 10,000               | C1210A103(1)2XA(2)   |
| <b>100 VOLT - BX</b> |                      |
| 12,000               | C1210A123(1)1XA(2)   |
| 15,000               | C1210A153(1)1XA(2)   |
| 18,000               | C1210A183(1)1XA(2)   |
| 22,000               | C1210A223(1)1XA(2)   |
| 27,000               | C1210A273(1)1XA(2)   |
| 33,000               | C1210A333(1)1XA(2)   |
| <b>50 VOLT - BX</b>  |                      |
| 39,000               | C1210A393(1)5XA(2)   |
| 47,000               | C1210A473(1)5XA(2)   |
| 56,000               | C1210A563(1)5XA(2)   |
| 68,000               | C1210A683(1)5XA(2)   |
| 82,000               | C1210A823(1)5XA(2)   |
| 100,000              | C1210A104(1)5XA(2)   |

## RATINGS AND PART NUMBER REFERENCE STYLE C1805

| CAPACITANCE<br>pF    | KEMET<br>PART NUMBER |
|----------------------|----------------------|
| <b>200 VOLT - BP</b> |                      |
| 220                  | C1805A221(1)2GA(2)   |
| 240                  | C1805A241(1)2GA(2)   |
| 270                  | C1805A271(1)2GA(2)   |
| 300                  | C1805A301(1)2GA(2)   |
| 330                  | C1805A331(1)2GA(2)   |
| 360                  | C1805A361(1)2GA(2)   |
| 390                  | C1805A391(1)2GA(2)   |
| 430                  | C1805A431(1)2GA(2)   |
| 470                  | C1805A471(1)2GA(2)   |
| <b>100 VOLT - BP</b> |                      |
| 510                  | C1805A511(1)1GA(2)   |
| 560                  | C1805A561(1)1GA(2)   |
| 620                  | C1805A621(1)1GA(2)   |
| 680                  | C1805A681(1)1GA(2)   |
| 750                  | C1805A751(1)1GA(2)   |
| 820                  | C1805A821(1)1GA(2)   |
| 910                  | C1805A911(1)1GA(2)   |
| 1000                 | C1805A102(1)1GA(2)   |
| 1100                 | C1805A112(1)1GA(2)   |
| 1200                 | C1805A122(1)1GA(2)   |
| 1300                 | C1805A132(1)1GA(2)   |
| 1500                 | C1805A152(1)1GA(2)   |
| <b>50 VOLT - BP</b>  |                      |
| 1600                 | C1805A162(1)5GA(2)   |
| 1800                 | C1805A182(1)5GA(2)   |
| 2000                 | C1805A202(1)5GA(2)   |
| 2200                 | C1805A222(1)5GA(2)   |

| CAPACITANCE<br>pF    | KEMET<br>PART NUMBER |
|----------------------|----------------------|
| <b>200 VOLT - BX</b> |                      |
| 1200                 | C1805A122(1)2XA(2)   |
| 1500                 | C1805A152(1)2XA(2)   |
| 1800                 | C1805A182(1)2XA(2)   |
| 2200                 | C1805A222(1)2XA(2)   |
| 2700                 | C1805A272(1)2XA(2)   |
| 3300                 | C1805A332(1)2XA(2)   |
| 3900                 | C1805A392(1)2XA(2)   |
| <b>100 VOLT - BX</b> |                      |
| 4700                 | C1805A472(1)1XA(2)   |
| 5600                 | C1805A562(1)1XA(2)   |
| 6800                 | C1805A682(1)1XA(2)   |
| 8200                 | C1805A822(1)1XA(2)   |
| 10,000               | C1805A103(1)1XA(2)   |
| 12,000               | C1805A123(1)1XA(2)   |
| 15,000               | C1805A153(1)1XA(2)   |
| 18,000               | C1805A183(1)1XA(2)   |
| <b>50 VOLT - BX</b>  |                      |
| 18,000               | C1805A183(1)5XA(2)   |
| 22,000               | C1805A223(1)5XA(2)   |
| 27,000               | C1805A273(1)5XA(2)   |
| 33,000               | C1805A333(1)5XA(2)   |
| 39,000               | C1805A393(1)5XA(2)   |
| 47,000               | C1805A473(1)5XA(2)   |

(1) Complete KEMET part number by inserting capacitance tolerance, as applicable as shown in ordering information on page 17.

**BP CAPACITANCE TOLERANCE:** ±1%, ±2%, ±5%, ±10%, ±20% (±0.5pF & ±0.25pF tolerances available 1.0 thru 10pF only) **TEMPERATURE CHARACTERISTIC "G"**

**BX CAPACITANCE TOLERANCE:** ±5%, ±10%, ±20% **TEMPERATURE CHARACTERISTIC "X"**

(2) Complete part number by inserting end Metallization, as applicable as shown in ordering information on page 17.

C—Tin-Coated, Final (SolderGuard II) H—Solder-Coated, Final (SolderGuard I)

L—70/30 Tin/Lead Plated G—Gold Plated

### RATINGS AND PART NUMBER REFERENCE

#### STYLE C1808

| CAPACITANCE<br>pF    | KEMET<br>PART NUMBER |
|----------------------|----------------------|
| <b>200 VOLT - BP</b> |                      |
| 330                  | C1808A331(1)2GA(2)   |
| 360                  | C1808A361(1)2GA(2)   |
| 390                  | C1808A391(1)2GA(2)   |
| 430                  | C1808A431(1)2GA(2)   |
| 470                  | C1808A471(1)2GA(2)   |
| 510                  | C1808A511(1)2GA(2)   |
| 560                  | C1808A561(1)2GA(2)   |
| 620                  | C1808A621(1)2GA(2)   |
| 680                  | C1808A681(1)2GA(2)   |
| 750                  | C1808A751(1)2GA(2)   |
| 820                  | C1808A821(1)2GA(2)   |
| 910                  | C1808A911(1)2GA(2)   |
| 1000                 | C1808A102(1)2GA(2)   |
| 1100                 | C1808A112(1)2GA(2)   |
| 1200                 | C1808A122(1)2GA(2)   |
| 1300                 | C1808A132(1)2GA(2)   |
| 1500                 | C1808A152(1)2GA(2)   |
| <b>100 VOLT - BP</b> |                      |
| 1600                 | C1808A162(1)1GA(2)   |
| 1800                 | C1808A182(1)1GA(2)   |
| 2000                 | C1808A202(1)1GA(2)   |
| 2200                 | C1808A222(1)1GA(2)   |
| 2400                 | C1808A242(1)1GA(2)   |
| 2700                 | C1808A272(1)1GA(2)   |
| 3000                 | C1808A302(1)1GA(2)   |
| 3300                 | C1808A332(1)1GA(2)   |
| 3600                 | C1808A362(1)1GA(2)   |
| 3900                 | C1808A392(1)1GA(2)   |
| 4300                 | C1808A432(1)1GA(2)   |
| 4700                 | C1808A472(1)1GA(2)   |

| CAPACITANCE<br>pF    | KEMET<br>PART NUMBER |
|----------------------|----------------------|
| <b>50 VOLT - BP</b>  |                      |
| 5100                 | C1808A512(1)5GA(2)   |
| 5600                 | C1808A562(1)5GA(2)   |
| <b>200 VOLT - BX</b> |                      |
| 2200                 | C1808A222(1)2XA(2)   |
| 2700                 | C1808A272(1)2XA(2)   |
| 3300                 | C1808A332(1)2XA(2)   |
| 3900                 | C1808A392(1)2XA(2)   |
| 4700                 | C1808A472(1)2XA(2)   |
| 5600                 | C1808A562(1)2XA(2)   |
| 6800                 | C1808A682(1)2XA(2)   |
| 8200                 | C1808A822(1)2XA(2)   |
| 10,000               | C1808A103(1)2XA(2)   |
| <b>100 VOLT - BX</b> |                      |
| 12,000               | C1808A123(1)1XA(2)   |
| 15,000               | C1808A153(1)1XA(2)   |
| 18,000               | C1808A183(1)1XA(2)   |
| 22,000               | C1808A223(1)1XA(2)   |
| 27,000               | C1808A273(1)1XA(2)   |
| 33,000               | C1808A333(1)1XA(2)   |
| 39,000               | C1808A393(1)1XA(2)   |
| 47,000               | C1808A473(1)1XA(2)   |
| <b>50 VOLT - BX</b>  |                      |
| 39,000               | C1808A393(1)5XA(2)   |
| 47,000               | C1808A473(1)5XA(2)   |
| 56,000               | C1808A563(1)5XA(2)   |
| 68,000               | C1808A683(1)5XA(2)   |
| 82,000               | C1808A823(1)5XA(2)   |
| 100,000              | C1808A104(1)5XA(2)   |

### RATINGS AND PART NUMBER REFERENCE

#### STYLE C1812

| CAPACITANCE<br>pF    | KEMET<br>PART NUMBER |
|----------------------|----------------------|
| <b>200 VOLT - BP</b> |                      |
| 330                  | C1812A331(1)2GA(2)   |
| 360                  | C1812A361(1)2GA(2)   |
| 390                  | C1812A391(1)2GA(2)   |
| 430                  | C1812A431(1)2GA(2)   |
| 470                  | C1812A471(1)2GA(2)   |
| 510                  | C1812A511(1)2GA(2)   |
| 560                  | C1812A561(1)2GA(2)   |
| 620                  | C1812A621(1)2GA(2)   |
| 680                  | C1812A681(1)2GA(2)   |
| 750                  | C1812A751(1)2GA(2)   |
| 820                  | C1812A821(1)2GA(2)   |
| 910                  | C1812A911(1)2GA(2)   |
| 1000                 | C1812A102(1)2GA(2)   |
| 1100                 | C1812A112(1)2GA(2)   |
| 1200                 | C1812A122(1)2GA(2)   |
| 1300                 | C1812A132(1)2GA(2)   |
| 1500                 | C1812A152(1)2GA(2)   |
| 1600                 | C1812A162(1)2GA(2)   |
| 1800                 | C1812A182(1)2GA(2)   |
| 2000                 | C1812A202(1)2GA(2)   |
| 2200                 | C1812A222(1)2GA(2)   |
| 2400                 | C1812A242(1)2GA(2)   |
| 2700                 | C1812A272(1)2GA(2)   |
| <b>100 VOLT - BP</b> |                      |
| 3000                 | C1812A302(1)1GA(2)   |
| 3300                 | C1812A332(1)1GA(2)   |
| 3600                 | C1812A362(1)1GA(2)   |
| 3900                 | C1812A392(1)1GA(2)   |
| 4300                 | C1812A432(1)1GA(2)   |
| 4700                 | C1812A472(1)1GA(2)   |
| 5100                 | C1812A512(1)1GA(2)   |

| CAPACITANCE<br>pF    | KEMET<br>PART NUMBER |
|----------------------|----------------------|
| <b>100 VOLT - BP</b> |                      |
| 5600                 | C1812A562(1)1GA(2)   |
| 6200                 | C1812A622(1)1GA(2)   |
| 6800                 | C1812A682(1)1GA(2)   |
| <b>50 VOLT - BP</b>  |                      |
| 7500                 | C1812A752(1)5GA(2)   |
| 8200                 | C1812A822(1)5GA(2)   |
| 9100                 | C1812A912(1)5GA(2)   |
| 10,000               | C1812A103(1)5GA(2)   |
| <b>200 VOLT - BX</b> |                      |
| 6800                 | C1812A682(1)2XA(2)   |
| 8200                 | C1812A822(1)2XA(2)   |
| 10,000               | C1812A103(1)2XA(2)   |
| 12,000               | C1812A123(1)2XA(2)   |
| 15,000               | C1812A153(1)2XA(2)   |
| 18,000               | C1812A183(1)2XA(2)   |
| <b>100 VOLT - BX</b> |                      |
| 22,000               | C1812A223(1)1XA(2)   |
| 27,000               | C1812A273(1)1XA(2)   |
| 33,000               | C1812A333(1)1XA(2)   |
| 39,000               | C1812A393(1)1XA(2)   |
| 47,000               | C1812A473(1)1XA(2)   |
| 56,000               | C1812A563(1)1XA(2)   |
| 68,000               | C1812A683(1)1XA(2)   |
| 82,000               | C1812A823(1)1XA(2)   |
| <b>50 VOLT - BX</b>  |                      |
| 82,000               | C1812A823(1)5XA(2)   |
| 100,000              | C1812A104(1)5XA(2)   |
| 120,000              | C1812A124(1)5XA(2)   |
| 150,000              | C1812A154(1)5XA(2)   |
| 180,000              | C1812A184(1)5XA(2)   |

(1) Complete KEMET part number by inserting capacitance tolerance, as applicable as shown in ordering information on page 17. **BP CAPACITANCE TOLERANCE:**  $\pm 1\%$ ,  $\pm 2\%$ ,  $\pm 5\%$ ,  $\pm 10\%$ ,  $\pm 20\%$  ( $\pm 0.5\text{pF}$  &  $\pm 0.25\text{pF}$  tolerances available 1.0 thru 10pF only) **TEMPERATURE CHARACTERISTIC "G" BX CAPACITANCE TOLERANCE:**  $\pm 5\%$ ,  $\pm 10\%$ ,  $\pm 20\%$  **TEMPERATURE CHARACTERISTIC "X"** (2) Complete part number by inserting end Metallization, as applicable as shown in ordering information on page 17.

C—Tin-Coated, Final (SolderGuard II) H—Solder-Coated, Final (SolderGuard I)  
L—70/30 Tin/Lead Plated G—Gold Plated

## RATINGS AND PART NUMBER REFERENCE STYLE C1825

| CAPACITANCE<br>pF    | KEMET<br>PART NUMBER |
|----------------------|----------------------|
| <b>200 VOLT - BP</b> |                      |
| 2700                 | C1825A272(1)2GA(2)   |
| 3000                 | C1825A302(1)2GA(2)   |
| 3300                 | C1825A332(1)2GA(2)   |
| 3600                 | C1825A362(1)2GA(2)   |
| 3900                 | C1825A392(1)2GA(2)   |
| 4300                 | C1825A432(1)2GA(2)   |
| 4700                 | C1825A472(1)2GA(2)   |
| 5100                 | C1825A512(1)2GA(2)   |
| 5600                 | C1825A562(1)2GA(2)   |
| <b>100 VOLT - BP</b> |                      |
| 6200                 | C1825A622(1)1GA(2)   |
| 6800                 | C1825A682(1)1GA(2)   |
| 7500                 | C1825A752(1)1GA(2)   |
| 8200                 | C1825A822(1)1GA(2)   |
| 9100                 | C1825A912(1)1GA(2)   |
| 10,000               | C1825A103(1)1GA(2)   |
| 11,000               | C1825A113(1)1GA(2)   |
| 12,000               | C1825A123(1)1GA(2)   |
| 13,000               | C1825A133(1)1GA(2)   |
| 15,000               | C1825A153(1)1GA(2)   |
| 16,000               | C1825A163(1)1GA(2)   |
| 18,000               | C1825A183(1)1GA(2)   |
| <b>50 VOLT - BP</b>  |                      |
| 20,000               | C1825A203(1)5GA(2)   |
| 22,000               | C1825A223(1)5GA(2)   |

| CAPACITANCE<br>pF    | KEMET<br>PART NUMBER |
|----------------------|----------------------|
| <b>200 VOLT - BX</b> |                      |
| 10,000               | C1825A103(1)2XA(2)   |
| 12,000               | C1825A123(1)2XA(2)   |
| 15,000               | C1825A153(1)2XA(2)   |
| 18,000               | C1825A183(1)2XA(2)   |
| 22,000               | C1825A223(1)2XA(2)   |
| 33,000               | C1825A333(1)2XA(2)   |
| 39,000               | C1825A393(1)2XA(2)   |
| 47,000               | C1825A473(1)2XA(2)   |
| <b>100 VOLT - BX</b> |                      |
| 56,000               | C1825A563(1)1XA(2)   |
| 68,000               | C1825A683(1)1XA(2)   |
| 82,000               | C1825A823(1)1XA(2)   |
| 100,000              | C1825A104(1)1XA(2)   |
| 120,000              | C1825A124(1)1XA(2)   |
| 150,000              | C1825A154(1)1XA(2)   |
| 180,000              | C1825A184(1)1XA(2)   |
| <b>50 VOLT - BX</b>  |                      |
| 180,000              | C1825A184(1)5XA(2)   |
| 220,000              | C1825A224(1)5XA(2)   |
| 270,000              | C1825A274(1)5XA(2)   |
| 330,000              | C1825A334(1)5XA(2)   |
| 390,000              | C1825A394(1)5XA(2)   |
| 470,000              | C1825A474(1)5XA(2)   |

## RATINGS AND PART NUMBER REFERENCE STYLE C2225

| CAPACITANCE<br>pF    | KEMET<br>PART NUMBER |
|----------------------|----------------------|
| <b>200 VOLT - BP</b> |                      |
| 2700                 | C2225A272(1)2GA(2)   |
| 3000                 | C2225A302(1)2GA(2)   |
| 3300                 | C2225A332(1)2GA(2)   |
| 3600                 | C2225A362(1)2GA(2)   |
| 3900                 | C2225A392(1)2GA(2)   |
| 4300                 | C2225A432(1)2GA(2)   |
| 4700                 | C2225A472(1)2GA(2)   |
| 5100                 | C2225A512(1)2GA(2)   |
| 5600                 | C2225A562(1)2GA(2)   |
| 6200                 | C2225A622(1)2GA(2)   |
| 6800                 | C2225A682(1)2GA(2)   |
| 7500                 | C2225A752(1)2GA(2)   |
| 8200                 | C2225A822(1)2GA(2)   |
| <b>100 VOLT - BP</b> |                      |
| 9100                 | C2225A912(1)1GA(2)   |
| 10,000               | C2225A103(1)1GA(2)   |
| 11,000               | C2225A113(1)1GA(2)   |
| 12,000               | C2225A123(1)1GA(2)   |
| 13,000               | C2225A133(1)1GA(2)   |
| 15,000               | C2225A153(1)1GA(2)   |
| 16,000               | C2225A163(1)1GA(2)   |
| 18,000               | C2225A183(1)1GA(2)   |
| 20,000               | C2225A203(1)1GA(2)   |
| 22,000               | C2225A223(1)1GA(2)   |
| <b>50 VOLT - BP</b>  |                      |
| 24,000               | C2225A243(1)5GA(2)   |
| 27,000               | C2225A273(1)5GA(2)   |
| 33,000               | C2225A333(1)5GA(2)   |

| CAPACITANCE<br>pF    | KEMET<br>PART NUMBER |
|----------------------|----------------------|
| <b>200 VOLT - BX</b> |                      |
| 18,000               | C2225A183(1)2XA(2)   |
| 22,000               | C2225A223(1)2XA(2)   |
| 27,000               | C2225A273(1)2XA(2)   |
| 33,000               | C2225A333(1)2XA(2)   |
| 39,000               | C2225A393(1)2XA(2)   |
| 47,000               | C2225A473(1)2XA(2)   |
| <b>100 VOLT - BX</b> |                      |
| 56,000               | C2225A563(1)1XA(2)   |
| 68,000               | C2225A683(1)1XA(2)   |
| 82,000               | C2225A823(1)1XA(2)   |
| 100,000              | C2225A104(1)1XA(2)   |
| 120,000              | C2225A124(1)1XA(2)   |
| 150,000              | C2225A154(1)1XA(2)   |
| 180,000              | C2225A184(1)1XA(2)   |
| <b>50 VOLT - BX</b>  |                      |
| 220,000              | C2225A224(1)5XA(2)   |
| 270,000              | C2225A274(1)5XA(2)   |
| 330,000              | C2225A334(1)5XA(2)   |
| 390,000              | C2225A394(1)5XA(2)   |
| 470,000              | C2225A474(1)5XA(2)   |
| 560,000              | C2225A564(1)5XA(2)   |
| 680,000              | C2225A684(1)5XA(2)   |
| 820,000              | C2225A824(1)5XA(2)   |
| 1,000,000            | C2225A105(1)5XA(2)   |

(1) Complete KEMET part number by inserting capacitance tolerance, as applicable as shown in ordering information on page 17. **BP CAPACITANCE TOLERANCE:**  $\pm 1\%$ ,  $\pm 2\%$ ,  $\pm 5\%$ ,  $\pm 10\%$ ,  $\pm 20\%$  ( $\pm 0.5\text{pF}$  &  $\pm 0.25\text{pF}$  tolerances available 1.0 thru 10pF only) **TEMPERATURE CHARACTERISTIC "G"** **BX CAPACITANCE TOLERANCE:**  $\pm 5\%$ ,  $\pm 10\%$ ,  $\pm 20\%$  **TEMPERATURE CHARACTERISTIC "X"**

(2) Complete part number by inserting end Metallization, as applicable as shown in ordering information on page 17.

C—Tin-Coated, Final (SolderGuard II) H—Solder-Coated, Final (SolderGuard I)

L—70/30 Tin/Lead Plated G—Gold Plated