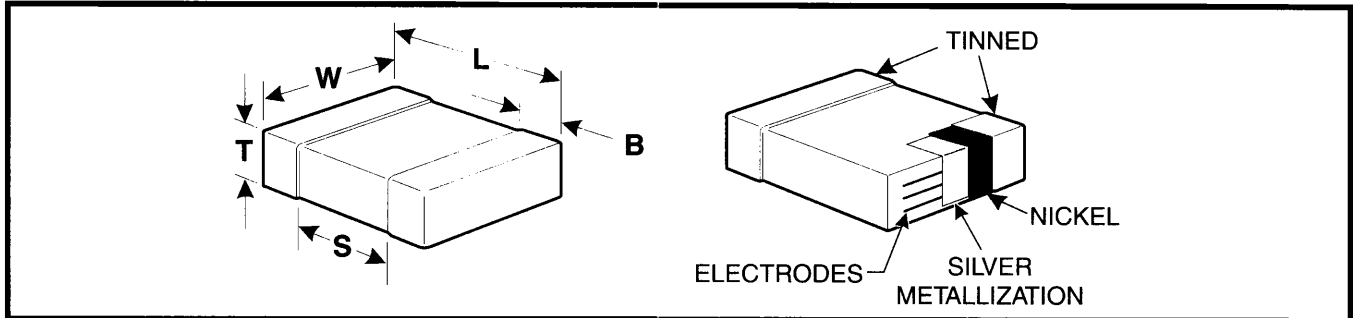


FEATURES

- Twelve chip sizes
- COG (NP0), X7R, Z5U and Y5V Dielectrics
- 10, 16, 25, 50, 100 and 200 Volts
- Standard End Metallization-tin-plated nickel barrier
- Available Capacitance Tolerance: ± 0.10 pF; ± 0.25 pF; ± 0.5 pF; $\pm 1\%$; $\pm 2\%$; $\pm 3\%$; $\pm 5\%$; $\pm 10\%$; $\pm 20\%$; and $+80\%$ - 20%
- Tape and reel packaging per EIA481-1. (See page 43 for specific tape and reel information.) Bulk Cassette packaging (0402 & 0603 only) per IEC286-6 and EIAJ 7201.

CAPACITOR OUTLINE DRAWINGS



DIMENSIONS—MILLIMETERS AND (INCHES)

| METRIC SIZE CODE | EIA SIZE CODE | L LENGTH | W WIDTH | T (EIA) THICKNESS MAX. | B BANDWIDTH | S MIN. SEPARATION | MOUNTING TECHNIQUE |
|------------------|---------------|------------------------------|------------------------------|------------------------|-------------------------------|-------------------|------------------------------------|
| 1005 | 0402* | 1.0 (.04) \pm .05 (.002) | 0.5 (.02) \pm .05 (.002) | 0.55 (.022) | 0.20 (0.008)-0.40 (0.016) | 0.3 (.012) | Solder Reflow |
| 1608 | 0603* | 1.6 (.063) \pm 0.15 (.006) | 0.8 (.032) \pm 0.15 (.006) | 0.9 (.035) | 0.35 (.014) \pm 0.15 (.006) | 0.7 (.028) | Solder Wave or Solder Reflow |
| 2012 | 0805* | 2.0 (.079) \pm 0.2 (.008) | 1.25 (.049) \pm 0.2 (.008) | 1.3 (.051)* | 0.5 (.02) \pm .25 (.010) | 0.75 (.030) | |
| 2520 | @ 1005 | 2.5 (.098) \pm 0.2 (.008) | 1.25 (.049) \pm 0.2 (.008) | 1.5 (.059) | 0.5 (.02) \pm .25 (.010) | N/A | |
| 3216 | 1206* | 3.2 (.126) \pm 0.2 (.008) | 1.6 (.063) \pm 0.2 (.008) | 1.5 (.059) | 0.5 (.02) \pm .25 (.010) | N/A | |
| 3225 | 1210* | 3.2 (.126) \pm 0.2 (.008) | 2.5 (.098) \pm 0.2 (.008) | 1.7 (.067) | 0.5 (.02) \pm .25 (.010) | N/A | Solder Reflow |
| 4512 | @ 1805 | 4.5 (.177) \pm 0.3 (.012) | 1.25 (.049) \pm 0.3 (.012) | 1.7 (.067) | 0.6 (.024) \pm .35 (.014) | N/A | |
| 4520 | @ 1808 | 4.5 (.177) \pm 0.3 (.012) | 2.0 (.079) \pm 0.3 (.012) | 1.7 (.067) | 0.6 (.024) \pm .35 (.014) | N/A | |
| 4532 | 1812* | 4.5 (.177) \pm 0.3 (.012) | 3.2 (.126) \pm 0.3 (.012) | 1.7 (.067) | 0.6 (.024) \pm .35 (.014) | N/A | |
| 4564 | 1825* | 4.5 (.177) \pm 0.3 (.012) | 6.4 (.252) \pm 0.4 (.016) | 1.7 (.067) | 0.6 (.024) \pm .35 (.014) | N/A | |
| 5650 | 2220 | 5.6 (.220) \pm 0.4 (.016) | 5.0 (.197) \pm 0.4 (.016) | 1.8 (.071) | 0.6 (.024) \pm .35 (.014) | N/A | |
| 5664 | 2225 | 5.6 (.220) \pm 0.4 (.016) | 6.3 (.248) \pm 0.4 (.016) | 2.0 (.079) | 0.6 (.024) \pm .35 (.014) | N/A | |

Extended value maximum thickness 1.3 (.051).
Metric size code given for reference only.

* Indicates EIA Preferred Case Sizes
@ Indicates 1005, 1805, 1808 not recommended for new designs.

CAPACITOR ORDERING INFORMATION

C 0805 C 103 K 5 R A C*

CERAMIC ———— C

EIA SIZE CODE ———— 0805

SPECIFICATION ———— C

C - Standard

CAPACITANCE CODE ———— 103

Expressed in Picofarads (pF)
First two digits represent significant figures.
Third digit specifies number of zeros. (Use 9 for 1.0 thru 9.9pF. Use 8 for 0.5 through 0.99pF)
(Example: 2.2pF = 229 or 0.50 pF = 508)

CAPACITANCE TOLERANCE ———— K

B - ± 0.10 pF J - $\pm 5\%$
C - ± 0.25 pF K - $\pm 10\%$
D - ± 0.5 pF M - $\pm 20\%$
F - $\pm 1\%$ P - (GMV)
G - $\pm 2\%$ Z - $+80\%$, -20%

END METALLIZATION ———— A

C-Standard
(Tin-plated nickel barrier)

FAILURE RATE LEVEL ———— C*

A- Not Applicable
(Military Product Only, see page 46.)

TEMPERATURE CHARACTERISTIC ———— R

Designated by Capacitance
Change Over Temperature Range
G - COG (NPO) (± 30 PPM/ $^{\circ}$ C)
R - X7R ($\pm 15\%$)
U - Z5U ($+22\%$, -56%)
V - Y5V ($+22\%$, -82%)

VOLTAGE ———— 5

1 - 100V 3 - 25V
2 - 200V 4 - 16V
5 - 50V 8 - 10V

* Part Number Example: C0805C103K5RAC (14 digits - no spaces)

X7R CAPACITANCE RANGE – C0402, C0603, C0805, C1005, C1206 & C1210

| CAP. PF | KEMET PART NUMBER | CAP. TOL. | C0402* | | | C0603* | | | C0805* | | | C1005@ | | | C1206* | | | C1210* | | |
|-----------|------------------------|-----------|-----------|------|------|--------|-----|------|--------|------|------|--------|------|------|--------|------|------|--------|------|------|
| | | | 10V - 50V | 10V | 16V | 25V | 50V | 100V | 50V | 100V | 200V | 50V | 100V | 200V | 50V | 100V | 200V | 50V | 100V | 200V |
| 180.0 | C (1) C181 (2) (3) RAC | K,M,J | 181 | 181 | 181 | 181 | 181 | | | | | | | | | | | | | |
| 220.0 | C (1) C221 (2) (3) RAC | K,M,J | 221 | 221 | 221 | 221 | 221 | 221 | 221 | 221 | | | | | | | | | | |
| 270.0 | C (1) C271 (2) (3) RAC | K,M,J | 271 | 271 | 271 | 271 | 271 | 271 | 271 | 271 | | | | | | | | | | |
| 330.0 | C (1) C331 (2) (3) RAC | K,M,J | 331 | 331 | 331 | 331 | 331 | 331 | 331 | 331 | | | | | | | | | | |
| 390.0 | C (1) C391 (2) (3) RAC | K,M,J | 391 | 391 | 391 | 391 | 391 | 391 | 391 | 391 | | | | | | | | | | |
| 470.0 | C (1) C471 (2) (3) RAC | K,M,J | 471 | 471 | 471 | 471 | 471 | 471 | 471 | 471 | | | | | | | | | | |
| 560.0 | C (1) C561 (2) (3) RAC | K,M,J | 561 | 561 | 561 | 561 | 561 | 561 | 561 | 561 | | | | | | | | | | |
| 680.0 | C (1) C681 (2) (3) RAC | K,M,J | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 681 | | | | | | | |
| 820.0 | C (1) C821 (2) (3) RAC | K,M,J | 821 | 821 | 821 | 821 | 821 | 821 | 821 | 821 | 821 | 821 | 821 | | | | | | | |
| 1000.0 | C (1) C102 (2) (3) RAC | K,M,J | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | | | | | |
| 1200.0 | C (1) C122 (2) (3) RAC | K,M,J | 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 | |
| 1500.0 | C (1) C152 (2) (3) RAC | K,M,J | 152 | 152 | 152 | 152 | 152 | 152 | 152 | 152 | 152 | 152 | 152 | 152 | 152 | 152 | 152 | 152 | 152 | |
| 1800.0 | C (1) C182 (2) (3) RAC | K,M,J | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | |
| 2200.0 | C (1) C222 (2) (3) RAC | K,M,J | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | |
| 2700.0 | C (1) C272 (2) (3) RAC | K,M,J | 272 | 272 | 272 | 272 | 272 | 272 | 272 | 272 | 272 | 272 | 272 | 272 | 272 | 272 | 272 | 272 | 272 | |
| 3300.0 | C (1) C332 (2) (3) RAC | K,M,J | 332 | 332 | 332 | 332 | 332 | 332 | 332 | 332 | 332 | 332 | 332 | 332 | 332 | 332 | 332 | 332 | 332 | |
| 3900.0 | C (1) C392 (2) (3) RAC | K,M,J | 392 | 392 | 392 | 392 | 392 | 392 | 392 | 392 | 392 | 392 | 392 | 392 | 392 | 392 | 392 | 392 | 392 | |
| 4700.0 | C (1) C472 (2) (3) RAC | K,M,J | 472 | 472 | 472 | 472 | 472 | 472 | 472 | 472 | 472 | 472 | 472 | 472 | 472 | 472 | 472 | 472 | 472 | |
| 5600.0 | C (1) C562 (2) (3) RAC | K,M,J | 562 | 562 | 562 | 562 | 562 | 562 | 562 | 562 | 562 | 562 | 562 | 562 | 562 | 562 | 562 | 562 | 562 | |
| 6800.0 | C (1) C682 (2) (3) RAC | K,M,J | 682 | 682 | 682 | 682 | 682 | 682 | 682 | 682 | 682 | 682 | 682 | 682 | 682 | 682 | 682 | 682 | 682 | |
| 8200.0 | C (1) C822 (2) (3) RAC | K,M,J | 822 | 822 | 822 | 822 | 822 | 822 | 822 | 822 | 822 | 822 | 822 | 822 | 822 | 822 | 822 | 822 | 822 | |
| 10,000.0 | C (1) C103 (2) (3) RAC | K,M,J | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | |
| 12,000.0 | C (1) C123 (2) (3) RAC | K,M,J | 123 | 123 | 123# | 123# | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | |
| 15,000.0 | C (1) C153 (2) (3) RAC | K,M,J | 153 | 153 | 153# | 153# | 153 | 153 | 153 | 153 | 153 | 153 | 153 | 153 | 153 | 153 | 153 | 153 | 153 | |
| 18,000.0 | C (1) C183 (2) (3) RAC | K,M,J | 183 | 183 | 183# | 183# | 183 | 183 | 183 | 183 | 183 | 183 | 183 | 183 | 183 | 183 | 183 | 183 | 183 | |
| 22,000.0 | C (1) C223 (2) (3) RAC | K,M,J | 223# | 223# | 223# | 223# | 223 | 223 | 223 | 223 | 223 | 223 | 223 | 223 | 223 | 223 | 223 | 223 | 223 | |
| 27,000.0 | C (1) C273 (2) (3) RAC | K,M,J | 273# | 273# | 273# | 273# | 273 | 273 | 273 | 273 | 273 | 273 | 273 | 273 | 273 | 273 | 273 | 273 | 273 | |
| 33,000.0 | C (1) C333 (2) (3) RAC | K,M,J | 333# | 333# | 333# | 333# | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | |
| 39,000.0 | C (1) C393 (2) (3) RAC | K,M,J | 393# | 393# | 393# | 393# | 393 | 393 | 393 | 393 | 393 | 393 | 393 | 393 | 393 | 393 | 393 | 393 | 393 | |
| 47,000.0 | C (1) C473 (2) (3) RAC | K,M,J | 473# | 473# | 473# | 473# | 473 | 473 | 473 | 473 | 473 | 473 | 473 | 473 | 473 | 473 | 473 | 473 | 473 | |
| 56,000.0 | C (1) C563 (2) (3) RAC | K,M,J | 563# | 563# | 563# | 563# | 563 | 563 | 563 | 563 | 563 | 563 | 563 | 563 | 563 | 563 | 563 | 563 | 563 | |
| 68,000.0 | C (1) C683 (2) (3) RAC | K,M,J | 683# | 683# | 683# | 683# | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | |
| 82,000.0 | C (1) C823 (2) (3) RAC | K,M,J | 823# | 823# | 823# | 823# | 823 | 823 | 823 | 823 | 823 | 823 | 823 | 823 | 823 | 823 | 823 | 823 | 823 | |
| 100,000.0 | C (1) C104 (2) (3) RAC | K,M,J | 104# | 104# | 104# | 104# | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | |
| 120,000.0 | C (1) C124 (2) (3) RAC | K,M,J | | | | | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | |
| 150,000.0 | C (1) C154 (2) (3) RAC | K,M,J | | | | | 154 | 154 | 154 | 154 | 154 | 154 | 154 | 154 | 154 | 154 | 154 | 154 | 154 | |
| 180,000.0 | C (1) C184 (2) (3) RAC | K,M,J | | | | | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | |
| 220,000.0 | C (1) C224 (2) (3) RAC | K,M,J | | | | | 224 | 224 | 224 | 224 | 224 | 224 | 224 | 224 | 224 | 224 | 224 | 224 | 224 | |
| 270,000.0 | C (1) C274 (2) (3) RAC | K,M,J | | | | | 274 | 274 | 274 | 274 | 274 | 274 | 274 | 274 | 274 | 274 | 274 | 274 | 274 | |
| 330,000.0 | C (1) C334 (2) (3) RAC | K,M,J | | | | | 334 | 334 | 334 | 334 | 334 | 334 | 334 | 334 | 334 | 334 | 334 | 334 | 334 | |

Contact KEMET Sales Representative for Current C0402 Values.

C1805, C1808, C1812, C1825, C2220, & C2225

| CAP. PF | KEMET PART NUMBER | CAP. TOL. | C1805@ | | | C1808@ | | | C1812* | | | C1825* | | | C2220 | | | C2225 | | |
|-----------|------------------------|-----------|--------|------|------|--------|------|------|--------|------|------|--------|------|------|-------|------|-----|-------|------|--|
| | | | 50V | 100V | 200V | 50V | 100V | 200V | 50V | 100V | 200V | 50V | 100V | 200V | 50V | 100V | 50V | 100V | 200V | |
| 2700.0 | C (1) C272 (2) (3) RAC | K,M,J | 272 | 272 | 272 | | | | | | | | | | | | | | | |
| 3300.0 | C (1) C332 (2) (3) RAC | K,M,J | 332 | 332 | 332 | | | | | | | | | | | | | | | |
| 3900.0 | C (1) C392 (2) (3) RAC | K,M,J | 392 | 392 | 392 | | | | | | | | | | | | | | | |
| 4700.0 | C (1) C472 (2) (3) RAC | K,M,J | 472 | 472 | 472 | 472 | 472 | 472 | | | | | | | | | | | | |
| 5600.0 | C (1) C562 (2) (3) RAC | K,M,J | 562 | 562 | 562 | 562 | 562 | 562 | | | | | | | | | | | | |
| 6800.0 | C (1) C682 (2) (3) RAC | K,M,J | 682 | 682 | 682 | 682 | 682 | 682 | 682 | 682 | 682 | | | | | | | | | |
| 8200.0 | C (1) C822 (2) (3) RAC | K,M,J | 822 | 822 | 822 | 822 | 822 | 822 | 822 | 822 | 822 | | | | | | | | | |
| 10,000.0 | C (1) C103 (2) (3) RAC | K,M,J | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | | | | | | | | | |
| 12,000.0 | C (1) C123 (2) (3) RAC | K,M,J | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | | | | | | | | | |
| 15,000.0 | C (1) C153 (2) (3) RAC | K,M,J | 153 | 153 | 153 | 153 | 153 | 153 | 153 | 153 | 153 | | | | | | | | | |
| 18,000.0 | C (1) C183 (2) (3) RAC | K,M,J | 183 | 183 | 183 | 183 | 183 | 183 | 183 | 183 | 183 | | | | | | | | | |
| 22,000.0 | C (1) C223 (2) (3) RAC | K,M,J | 223 | 223 | 223 | 223 | 223 | 223 | 223 | 223 | 223 | 223 | 223 | | | | | | | |
| 27,000.0 | C (1) C273 (2) (3) RAC | K,M,J | 273 | 273 | 273 | 273 | 273 | 273 | 273 | 273 | 273 | 273 | 273 | | | | | | | |
| 33,000.0 | C (1) C333 (2) (3) RAC | K,M,J | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | | | | | | | |
| 39,000.0 | C (1) C393 (2) (3) RAC | K,M,J | 393 | 393 | 393 | 393 | 393 | 393 | 393 | 393 | 393 | 393 | 393 | | | | | | | |
| 47,000.0 | C (1) C473 (2) (3) RAC | K,M,J | 473 | 473 | 473 | 473 | 473 | 473 | 473 | 473 | 473 | 473 | 473 | | | 473 | 473 | 473 | 473 | |
| 56,000.0 | C (1) C563 (2) (3) RAC | K,M,J | 563 | 563 | 563 | 563 | 563 | 563 | 563 | 563 | 563 | 563 | 563 | | | 563 | 563 | 563 | 563 | |
| 68,000.0 | C (1) C683 (2) (3) RAC | K,M,J | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | | | 683 | 683 | 683 | 683 | |
| 82,000.0 | C (1) C823 (2) (3) RAC | K,M,J | 823 | 823 | 823 | 823 | 823 | 823 | 823 | 823 | 823 | 823 | 823 | | | 823 | 823 | 823 | 823 | |
| 100,000.0 | C (1) C104 (2) (3) RAC | K,M,J | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | | | 104 | 104 | 104 | 104 | |
| 120,000.0 | C (1) C124 (2) (3) RAC | K,M,J | | | | | 124 | 124 | 124 | 124 | 124 | 124 | 124 | | | 124 | 124 | 124 | 124 | |
| 150,000.0 | C (1) C154 (2) (3) RAC | K,M,J | | | | | 154 | 154 | 154 | 154 | 154 | 154 | 154 | | | 154 | 154 | 154 | 154 | |
| 180,000.0 | C (1) C184 (2) (3) RAC | K,M,J | | | | | 184 | 184 | 184 | 184 | 184 | 184 | 184 | | | 184 | 184 | 184 | 184 | |
| 220,000.0 | C (1) C224 (2) (3) RAC | K,M,J | | | | | 224 | 224 | 224 | 224 | 224 | 224 | 224 | | | 224 | 224 | 224 | 224 | |
| 270,000.0 | C (1) C274 (2) (3) RAC | K,M,J | | | | | 274 | 274 | 274 | 274 | 274 | 274 | 274 | | | 274 | 274 | 274 | 274 | |
| 330,000.0 | C (1) C334 (2) (3) RAC | K,M,J | | | | | 334 | 334 | 334 | 334 | 334 | 334 | 334 | | | 334 | 334 | 334 | 334 | |
| 390,000.0 | C (1) C394 (2) (3) RAC | K,M,J | | | | | 394 | 394 | 394 | 394 | 394 | 394 | 394 | | | 394 | 394 | 394 | 394 | |
| 470,000.0 | C (1) C474 (2) (3) RAC | K,M,J | | | | | 474 | 474 | 474 | 474 | 474 | 474 | 474 | | | 474 | 474 | 474 | 474 | |
| 560,000.0 | C (1) C564 (2) (3) RAC | K,M,J | | | | | 564 | 564 | 564 | 564 | 564 | 564 | 564 | | | 564 | 564 | 564 | 564 | |
| 680,000.0 | C (1) C684 (2) (3) RAC | K,M,J | | | | | 684 | 684 | 684 | 684 | | | | | | | | | | |

Z5U CAPACITANCE RANGE (KEMET's Z5U also meets Y5V Characteristics)

| CAP. PF | KEMET PART NUMBER | CAP TOL. | C0805* | | C1005@ | | C1206* | | C1210* | | C1805@ | | C1808@ | | C1812* | | C1825* | | C225 | |
|-------------|---------------------|----------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|------|------|
| | | | 50V | 100V | 50V | 100V | 50V | 100V | 50V | 100V | 50V | 100V | 50V | 100V | 50V | 100V | 50V | 100V | 50V | 100V |
| 6800.0 | C_(1)_C682(2)(3)UAC | M,Z | 682 | 682 | | | | | | | | | | | | | | | | |
| 8200.0 | C_(1)_C822(2)(3)UAC | M,Z | 822 | 822 | | | | | | | | | | | | | | | | |
| 10,000.0 | C_(1)_C103(2)(3)UAC | M,Z | 103 | 103 | | | 103 | 103 | | | | | | | | | | | | |
| 12,000.0 | C_(1)_C123(2)(3)UAC | M,Z | 123 | | | | 123 | 123 | | | | | | | | | | | | |
| 15,000.0 | C_(1)_C153(2)(3)UAC | M,Z | 153 | | | | 153 | 153 | | | | | | | | | | | | |
| 18,000.0 | C_(1)_C183(2)(3)UAC | M,Z | 183 | | 183 | 183 | 183 | 183 | | | | | | | | | | | | |
| 22,000.0 | C_(1)_C223(2)(3)UAC | M,Z | 223 | | 223 | 223 | 223 | 223 | | | | | | | | | | | | |
| 27,000.0 | C_(1)_C273(2)(3)UAC | M,Z | 273 | | 273 | | 273 | 273 | | | | | | | | | | | | |
| 33,000.0 | C_(1)_C333(2)(3)UAC | M,Z | 333 | | 333 | | 333 | 333 | | | 333 | 333 | | | | | | | | |
| 39,000.0 | C_(1)_C393(2)(3)UAC | M,Z | 393 | | 393 | | 393 | 393 | | | 393 | 393 | | | | | | | | |
| 47,000.0 | C_(1)_C473(2)(3)UAC | M,Z | 473 | | 473 | | 473 | 473 | 473 | 473 | | | | | | | | | | |
| 56,000.0 | C_(1)_C563(2)(3)UAC | M,Z | 563 | | 563 | | 563 | 563 | 563 | 563 | | | | | | | | | | |
| 68,000.0 | C_(1)_C683(2)(3)UAC | M,Z | 683 | | 683 | | 683 | 683 | 683 | 683 | 683 | 683 | | | | | | | | |
| 82,000.0 | C_(1)_C823(2)(3)UAC | M,Z | 823 | | 823 | | 823 | 823 | 823 | 823 | 823 | 823 | 823 | 823 | | | | | | |
| 100,000.0 | C_(1)_C104(2)(3)UAC | M,Z | 104 | | | | 104 | 104 | | | 104 | 104 | 104 | 104 | | | | | | |
| 120,000.0 | C_(1)_C124(2)(3)UAC | M,Z | | | | | 124 | 124 | | | 124 | 124 | 124 | 124 | | | | | | |
| 150,000.0 | C_(1)_C154(2)(3)UAC | M,Z | | | | | 154 | 154 | | | 154 | 154 | 154 | 154 | | | | | | |
| 180,000.0 | C_(1)_C184(2)(3)UAC | M,Z | | | | | 184 | 184 | | | 184 | 184 | 184 | 184 | 184 | 184 | | | | |
| 220,000.0 | C_(1)_C224(2)(3)UAC | M,Z | | | | | 224 | 224 | | | 224 | 224 | 224 | 224 | 224 | 224 | | | | |
| 270,000.0 | C_(1)_C274(2)(3)UAC | M,Z | | | | | 274 | 274 | | | 274 | 274 | 274 | 274 | 274 | 274 | | | | |
| 330,000.0 | C_(1)_C334(2)(3)UAC | M,Z | | | | | | | | | 334 | 334 | 334 | 334 | 334 | 334 | 334 | 334 | 334 | 334 |
| 390,000.0 | C_(1)_C394(2)(3)UAC | M,Z | | | | | | | | | 394 | 394 | 394 | 394 | 394 | 394 | 394 | 394 | 394 | 394 |
| 470,000.0 | C_(1)_C474(2)(3)UAC | M,Z | | | | | | | | | 474 | 474 | 474 | 474 | 474 | 474 | 474 | 474 | 474 | 474 |
| 560,000.0 | C_(1)_C564(2)(3)UAC | M,Z | | | | | | | | | | | 564 | 564 | 564 | 564 | 564 | 564 | 564 | 564 |
| 680,000.0 | C_(1)_C684(2)(3)UAC | M,Z | | | | | | | | | | | 684 | 684 | 684 | 684 | 684 | 684 | 684 | 684 |
| 820,000.0 | C_(1)_C824(2)(3)UAC | M,Z | | | | | | | | | | | | 824 | 824 | 824 | 824 | 824 | 824 | 824 |
| 1,000,000.0 | C_(1)_C105(2)(3)UAC | M,Z | | | | | | | | | | | | | 105 | 105 | 105 | 105 | 105 | 105 |
| 1,200,000.0 | C_(1)_C125(2)(3)UAC | M,Z | | | | | | | | | | | | | 125 | 125 | 125 | 125 | 125 | 125 |
| 1,500,000.0 | C_(1)_C155(2)(3)UAC | M,Z | | | | | | | | | | | | | 155 | 155 | 155 | 155 | 155 | 155 |
| 1,800,000.0 | C_(1)_C185(2)(3)UAC | M,Z | | | | | | | | | | | | | | | 185 | 185 | 185 | 185 |
| 2,200,000.0 | C_(1)_C225(2)(3)UAC | M,Z | | | | | | | | | | | | | | | | | 225 | 225 |

(1) To complete part number, insert four digit number for KEMET style desired: 0805, 1005, 1206, 1210, 1805, 1808, 1812, 1825, 2220 or 2225.

(2) To complete part number, insert appropriate letter for capacitance tolerance desired per table.

(3) To complete part number, insert appropriate number for voltage desired: "1" = 100 volts and "5" = 50 volts.

*EIA preferred chip sizes

NOTE: For non-standard capacitance values or voltages, contact your local KEMET sales representative. 50 Volt Ceramic Chips can be used for 63 volt applications.

* EIA preferred chip sizes @ 1005, 1805, 1808 not recommended for new designs.

Ceramic Surface Mount

Y5V CAPACITANCE RANGE

| CAP. PF | KEMET PART NUMBER | CAP. TOL. | C0603* | | C0805* | | | C1206* | |
|-----------|---------------------|-----------|--------|-----|--------|-----|-----|--------|-----|
| | | | 16V | 25V | 16V | 25V | 50V | 10V | 16V |
| 22,000 | C_(1)_C223(2)(3)VAC | M, Z | 223 | 223 | 223 | 223 | 223 | | |
| 33,000 | C_(1)_C333(2)(3)VAC | M, Z | 333 | 333 | 333 | 333 | 333 | | |
| 47,000 | C_(1)_C473(2)(3)VAC | M, Z | 473 | 473 | 473 | 473 | 473 | | |
| 68,000 | C_(1)_C683(2)(3)VAC | M, Z | 683 | 683 | 683 | 683 | 683 | | |
| 100,000 | C_(1)_C104(2)(3)VAC | M, Z | 104 | 104 | 104 | 104 | 104 | | |
| 220,000 | C1206C224(2)(3)VAC | M, Z | | | 224 | | | 224 | 224 |
| 330,000 | C1206C334(2)(3)VAC | M, Z | | | 334 | | | 334 | 334 |
| 470,000 | C1206C474(2)(3)VAC | M, Z | | | 474 | | | 474 | 474 |
| 680,000 | C1206C684(2)(3)VAC | M, Z | | | | | | 684 | 684 |
| 1,000,000 | C1206C105(2)(3)VAC | M, Z | | | | | | 105 | 105 |

For values not listed, contact your local KEMET sales office.

(1) To complete the KEMET part number, insert four digit number for KEMET style desired: 0603 or 0805.

(2) To complete the KEMET part number, insert appropriate letter for capacitance tolerance desired per table.

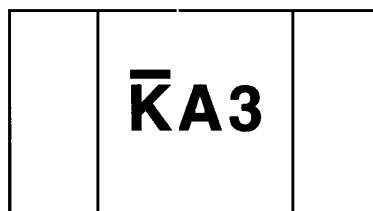
(3) To complete the KEMET part number, insert the numeric code indicating the voltage rating. 5 = 50, 3 = 25 volts DC, 4 = 16 volts DC.

SURFACE MOUNT MARKING FORMAT

Most KEMET chips can be supplied with marking on two sides (per EIA-198). The marking includes a \bar{K} to identify KEMET followed by two characters designating the capacitance value. See table for further details. (Note: marking is not available for 0402 size, and Y5V dielectric.)

CAPACITOR MARKING TABLE

| Alpha Character | Capacitance (pF) For Various Numeral Identifiers | | | | | | | | |
|-----------------|--|-----|----|-----|------|--------|---------|-----------|------------|
| | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| A | 0.10 | 1.0 | 10 | 100 | 1000 | 10,000 | 100,000 | 1,000,000 | 10,000,000 |
| B | 0.11 | 1.1 | 11 | 110 | 1100 | 11,000 | 110,000 | 1,100,000 | 11,000,000 |
| C | 0.12 | 1.2 | 12 | 120 | 1200 | 12,000 | 120,000 | 1,200,000 | 12,000,000 |
| D | 0.13 | 1.3 | 13 | 130 | 1300 | 13,000 | 130,000 | 1,300,000 | 13,000,000 |
| E | 0.15 | 1.5 | 15 | 150 | 1500 | 15,000 | 150,000 | 1,500,000 | 15,000,000 |
| F | 0.16 | 1.6 | 16 | 160 | 1600 | 16,000 | 160,000 | 1,600,000 | 16,000,000 |
| G | 0.18 | 1.8 | 18 | 180 | 1800 | 18,000 | 180,000 | 1,800,000 | 18,000,000 |
| H | 0.20 | 2.0 | 20 | 200 | 2000 | 20,000 | 200,000 | 2,000,000 | 20,000,000 |
| J | 0.22 | 2.2 | 22 | 220 | 2200 | 22,000 | 220,000 | 2,200,000 | 22,000,000 |
| K | 0.24 | 2.4 | 24 | 240 | 2400 | 24,000 | 240,000 | 2,400,000 | 24,000,000 |
| L | 0.27 | 2.7 | 27 | 270 | 2700 | 27,000 | 270,000 | 2,700,000 | 27,000,000 |
| M | 0.30 | 3.0 | 30 | 300 | 3000 | 30,000 | 300,000 | 3,000,000 | 30,000,000 |
| N | 0.33 | 3.3 | 33 | 330 | 3300 | 33,000 | 330,000 | 3,300,000 | 33,000,000 |
| P | 0.36 | 3.6 | 36 | 360 | 3600 | 36,000 | 360,000 | 3,600,000 | 36,000,000 |
| Q | 0.39 | 3.9 | 39 | 390 | 3900 | 39,000 | 390,000 | 3,900,000 | 39,000,000 |
| R | 0.43 | 4.3 | 43 | 430 | 4300 | 43,000 | 430,000 | 4,300,000 | 43,000,000 |
| S | 0.47 | 4.7 | 47 | 470 | 4700 | 47,000 | 470,000 | 4,700,000 | 47,000,000 |
| T | 0.51 | 5.1 | 51 | 510 | 5100 | 51,000 | 510,000 | 5,100,000 | 51,000,000 |
| U | 0.56 | 5.6 | 56 | 560 | 5600 | 56,000 | 560,000 | 5,600,000 | 56,000,000 |
| V | 0.62 | 6.2 | 62 | 620 | 6200 | 62,000 | 620,000 | 6,200,000 | 62,000,000 |
| W | 0.68 | 6.8 | 68 | 680 | 6800 | 68,000 | 680,000 | 6,800,000 | 68,000,000 |
| X | 0.75 | 7.5 | 75 | 750 | 7500 | 75,000 | 750,000 | 7,500,000 | 75,000,000 |
| Y | 0.82 | 8.2 | 82 | 820 | 8200 | 82,000 | 820,000 | 8,200,000 | 82,000,000 |
| Z | 0.91 | 9.1 | 91 | 910 | 9100 | 91,000 | 910,000 | 9,100,000 | 91,000,000 |
| a | 0.25 | 2.5 | 25 | 250 | 2500 | 25,000 | 250,000 | 2,500,000 | 25,000,000 |
| b | 0.35 | 3.5 | 35 | 350 | 3500 | 35,000 | 350,000 | 3,500,000 | 35,000,000 |
| d | 0.40 | 4.0 | 40 | 400 | 4000 | 40,000 | 400,000 | 4,000,000 | 40,000,000 |
| e | 0.45 | 4.5 | 45 | 450 | 4500 | 45,000 | 450,000 | 4,500,000 | 45,000,000 |
| f | 0.50 | 5.0 | 50 | 500 | 5000 | 50,000 | 500,000 | 5,000,000 | 50,000,000 |
| m | 0.60 | 6.0 | 60 | 600 | 6000 | 60,000 | 600,000 | 6,000,000 | 60,000,000 |
| n | 0.70 | 7.0 | 70 | 700 | 7000 | 70,000 | 700,000 | 7,000,000 | 70,000,000 |
| t | 0.80 | 8.0 | 80 | 800 | 8000 | 80,000 | 800,000 | 8,000,000 | 80,000,000 |
| y | 0.90 | 9.0 | 90 | 900 | 9000 | 90,000 | 900,000 | 9,000,000 | 90,000,000 |



Example shown is a 1,000 pF capacitor.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [kemet manufacturer](#):

Other Similar products are found below :

[C0603C151K5GAC7867](#) [49AN3470ZB01M](#) [CWR11KH106KCT250](#) [T543D477K006ATE015](#) [C1206N102K1GSLT500](#)
[C0805N330K1GSLT500](#) [CDR34BX154AKUS71897505](#) [C1206N393K5XSLT500](#) [C0805N100K1GSLT500](#) [C322C104M1U5TATR](#)
[C1206C223J1RAC7800](#) [C0603C120C5GAC7867](#) [C0402C222J4GACAUTO7411](#) [M39003/01-5168](#) [M39003/09-3052](#) [M39014/02-1238](#)
[ESK477M025AH1EA](#) [F161WP225K050V](#) [MMK10104K100A01L16.5TR18](#) [MMK10473K250A01L4BULK](#) [PEG130HJ4480QL1](#)
[PEH200YK4100MU2](#) [PHE426HD7220JR06L2](#) [ACA16B331JGS](#) [R46KR34704001K](#) [R474N32200001K](#) [R71PI36804030M](#)
[R75PR41504030J](#) [ALC10A181DC550](#) [ALC40A471DH450](#) [ALS30A332LF400](#) [EDK227M010A9HAA](#) [EFF\(03\)-240X240](#) [EFR\(03\)-240X240](#)
[EFX\(02\)-240X240T0800](#) [EFX\(05\)-240X240](#) [C0402C153K5RACTU](#) [C0402C182J3GACTU](#) [C0402C220J5GACAUTO](#)
[C0402C223K4RACAUTO](#) [C0402C273K3RACTU](#) [C0402C331K5RACTU](#) [C0603C102J5GACAUTO](#) [C0603C102K3RACAUTO](#)
[C0603C109B5GACTU](#) [C0603C109C1GACTU](#) [C0603C222K2RACTU](#) [C0603X152K5RAC7867](#) [C0805C101K2GACAUTO](#)
[C0805C102K1RACAUTO](#)