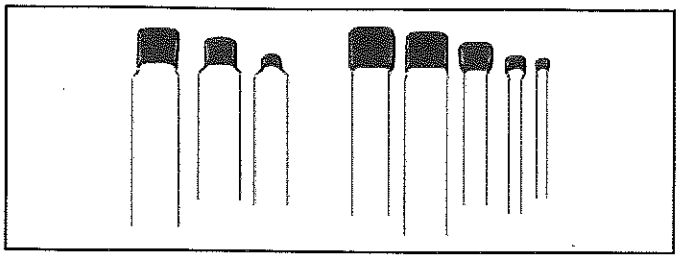
# Ceramic Capacitors

## Monolythic®, Conformal-Coated, Radial Lead



**FEATURES**

- EIA characteristics C0G, X7R, Z5U
- Capacitance range 10pF to 4.7µF
- Voltage ratings 50 WVDC to 100 WVDC
- Wide choice of lead spacing

**DIMENSIONAL CONFIGURATIONS** [Numbers in brackets indicate millimeters]

Drawing for dimensional purposes only. Exact outline and lead form may vary depending on size and lead spacing.

| TYPE | W (Max.) | H (Max.) | T (Max.) | LEAD SIZE | | LEAD SPACING (S) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | AWG NO. | DIA. | .10 [2.54] | .20 [5.08] | .25 [6.35] | .30 [7.62] | .37 [9.40] | .40 [10.16] |
| 9C | .138 [3.505] | .120 [3.048] | .100 [2.540] | 26 | .016 [.406] | X | — | — | — | — | — |
| 1C | .200 [5.080] | .250 [6.350] | .125 [3.175] | 24 | .020 [.508] | X | X | X | X | — | — |
| 2C | .300 [7.620] | .300 [7.620] | .157 [3.988] | 24 | .020 [.508] | — | X | X | X | X | X |
| 3C | .400 [10.160] | .400 [10.160] | .157 [3.988] | 24 | .020 [.508] | — | X | X | X | X | X |
| 5C | .500 [12.700] | .500 [12.700] | .200 [5.080] | 24 | .020 [.508] | — | X | X | X | X | X |

**HOW TO ORDER**

| 1C | 10 | Z5U | 104 | M | 050 | B |
|---|---|---|---|---|---|---|
| TYPE | LEAD SPACING CODE | EIA TEMPERATURE CHARACTERISTIC | CAPACITANCE CODE | CAPACITANCE TOLERANCE | DC VOLTAGE RATING | LEAD LENGTH* |

See Dimensional Configurations.

This is expressed in picofarads. The first two digits are the significant figures. The third is the number of zeros to follow.

This is expressed in volts. To complete the three-digit block, zeros precede the voltage rating.

B = Bulk
R = Tape and Reel
* 1.0 [25.4] minimum lead length.

| CODE | TEMPERATURE RANGE | MAX. CAP. CHANGE OVER TEMP. RANGE |
|---|---|---|
| Z5U | + 10°C to + 85°C | - 56%, + 22% |
| X7R | - 55°C to + 125°C | ± 15% |
| C0G | - 55°C to + 125°C | 0 ± 30PPM/°C |

See Dimensional Configurations.

| EIA CODE | TOLERANCE | AVAILABLE IN EIA CHARACTERISTIC |
|---|---|---|
| J | ± 5% | C0G |
| K | ± 10% | X7R |
| M | ± 20% | Z5U |