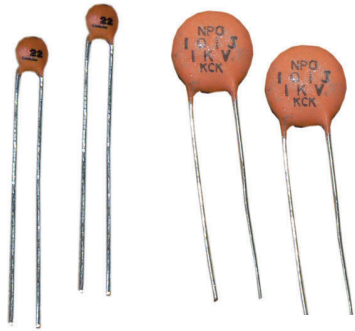


Types CE, CM, CP Disc Ceramic Capacitors

EIA Class 1 Temperature Compensating Capacitors



EIA Class 1 temperature compensating capacitors are ideal for timing and oscillating circuits. They are conformally coated and have one inch long minimum radial leads.

Highlights

- Small size
- Conformally coated
- Radial leads
- Temperature compensating



Specifications

| | |
|-------------------------------------|----------------------------|
| Capacitance Range: | 1 pF to 220 pF |
| Voltage Range: | 50, 500, 1000 Vdc |
| Tolerance: | See ratings tables |
| Operating Temperature Range: | -55 °C to +125 °C |
| Insulation Resistance: | 10,000 megohms minimum |
| Breakdown Voltage: | 3 x rated (5 seconds Max.) |
| Power Factor: | 5% Max. @ 1 MHz |
| Lead Length: | 1.0 inch minimum |

Complies with the EU Directive 2002/95/EC requirement restricting the use of Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent chromium (Cr(VI)), PolyBrominated Biphenyls (PBB) and PolyBrominated Diphenyl Ethers (PBDE).

Ratings

| Cap (pF) | Catalog Part Number | Tol. (±) | Temp. Coef. | Size (Inches) | | | | Size (Millimeters) | | | |
|-----------------|------------------------|-------------|----------------|------------------|------|------|------|-----------------------|-----|-----|----|
| | | | | D | T | S | d | D | T | S | d |
| 50 Vdc | | | | | | | | | | | |
| 1 | CEC010C * | .25 pF | NPO | .157 | .118 | .098 | .015 | 4.0 | 3.0 | 2.5 | .4 |
| 5 | CEC050C** | .25 pF | NPO | .157 | .118 | .098 | .015 | 4.0 | 3.0 | 2.5 | .4 |
| 10 | CEC100J ** | 5% | NPO | .157 | .118 | .098 | .015 | 4.0 | 3.0 | 2.5 | .4 |
| 15 | CEC150J * | 5% | NPO | .157 | .118 | .098 | .015 | 4.0 | 3.0 | 2.5 | .4 |
| 22 | CEC220J* | 5% | NPO | .157 | .118 | .098 | .015 | 4.0 | 3.0 | 2.5 | .4 |
| 100 | CEU101J * | 5% | N750 | .236 | .118 | .197 | .020 | 6.0 | 3.0 | 5.0 | .5 |
| 220 | CEC221J ** | 5% | NPO | .413 | .118 | .197 | .020 | 10.5 | 3.0 | 5.0 | .5 |
| 500 Vdc | | | | | | | | | | | |
| 20 | CMC200J ** | 5% | NPO | .236 | .157 | .252 | .025 | 6.0 | 4.0 | 6.4 | .6 |
| 1000 Vdc | | | | | | | | | | | |
| 1.5 | CPC1R5C * | .25 pF | NPO | .236 | .177 | .252 | .025 | 6.0 | 4.5 | 6.4 | .6 |
| 4.7 | CPC4R7C * | .25 pF | NPO | .236 | .177 | .252 | .025 | 6.0 | 4.5 | 6.4 | .6 |
| 18 | CPC180J ** | 5% | NPO | .236 | .177 | .252 | .025 | 6.0 | 4.5 | 6.4 | .6 |
| 33 | CPC330J ** | 5% | NPO | .291 | .177 | .252 | .025 | 7.4 | 4.5 | 6.4 | .6 |
| 100 | CPC101J * | 5% | NPO | .512 | .177 | .252 | .025 | 13.0 | 4.5 | 6.4 | .6 |

* Available only until stock is depleted

**Obsolete part number

Types CE, CM, CP Disc Ceramic Capacitors

Physical Specifications

Case: Conformal Coating

Lead material: Tinned copper wire. (Minimum lead content: 5%)

TEMPERATURE COEFFICIENT CODES

| Temperature Range -55°C +125°C | % Change Per 1°C |
|-----------------------------------|---------------------|
| NPO-(COG) | ±30ppm |
| | .0030% |

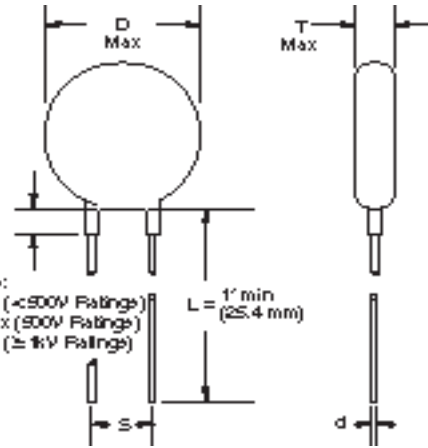
Tape and Reel Available upon Request

Leads are formed to .200 (5.0mm) lead spacing

For D less than .315 (8.0mm) - Quantity/Reel = 2500 pcs

For D .315 (8.0mm) to .472 (12.0mm) - Quantity/Reel = 2000 pcs

Tape and Reel not available for D greater than .472 (12mm)



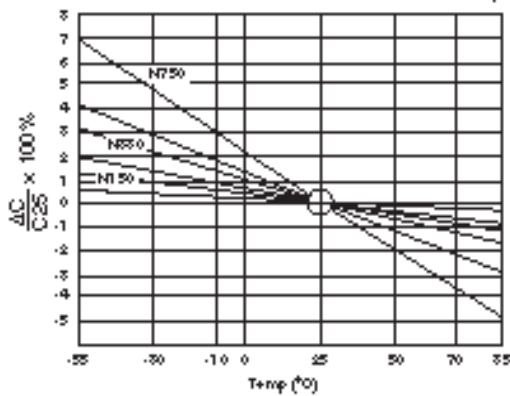
Coating on Leads:

0.08" (2mm) Max (<500V Ratings)

0.118" (3mm) Max (500V Ratings)

0.16" (4mm) Max (≥ 1kV Ratings)

Capacitance vs. Temperature



Capacitance vs. Frequency

