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

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

			$\overline{}$			
	Catalog		Temp.	Size	Size	
Сар	Part Number	Tol.	Coef.	D T S d	D T S d	
(pF)		(±)		(Inches)	(Millimeters)	
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

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Physical Specifications

Case: Conformal Coating

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

TEMPERATURE COEFFICIENT CODES

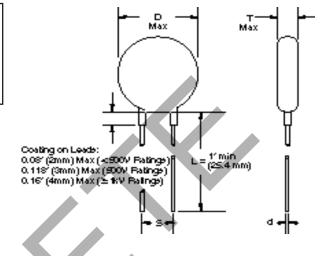
Temperati	% Change	
-55°C -	Per 1ºC	
NPO-(COG)	±30ppm	.0030%

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)



Capacitance vs. Temperature

