

C28 SERIES — COG DIELECTRIC

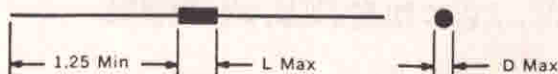
OPERATING TEMPERATURE RANGE —30° C to +200° C

HI-TEMP CERAMIC CAPACITORS

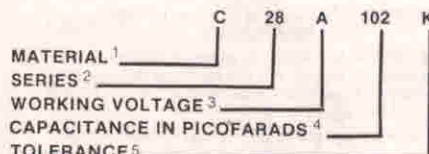
CYLINDRICAL — PRECISION EPOXY CASE — AXIAL LEADS

LEAD MATERIAL:

.025" dia Tinned Nickel per MIL-STD-1276 N-3
WELDABLE AND SOLDERABLE



PART NUMBER AND ORDERING INFORMATION



1. MATERIAL: C = COG (NPO)
2. SERIES: 28 = 200° C
Cylindrical - Axial Leads
3. WORKING VOLTAGE DC:
A = 100 VDC
C = 50 VDC
D = 25 VDC
4. CAPACITANCE IN PICO FARADS:
102 = 1000 pF
First two digits are significant, last digit signifies number of zeros.
5. TOLERANCES:
F = 1%
G = 2%
J = 5%
K = 10%
M = 20%

SPECIFICATIONS

- WORKING VOLTAGE:** 25/50/100 VDC @ 200° C
50/100/200 VDC @ 150° C
- TEMPERATURE COEFFICIENT:** COG 0 ± 30 PPM/° C
From —30° C to +125° C ± 50PPM 125° - 200° C
See Figure 1.
- DISSIPATION FACTOR:** .15% max. @ 1 KHz, +25° C
See Figure 4.
- INSULATION RESISTANCE:** 100,000 Megohms or 1000 Megohm-Microfarads, whichever is less at +25° C and Rated Voltage. 500 Megohms or 5 Megohm-Microfarads, whichever is less @ +200° C and Rated Voltage. See Figure 5.
- DIELECTRIC STRENGTH:** 250% of Rated Voltage for 5 × 1 Second with 100 MA maximum charging current.
- OPERATING TEMPERATURE RANGE:** —30° C through +200° C
—55° C through +200° C available on special request.
- LIFE TEST:** In excess of 250 Hours at Rated Voltage at +200° C.
- MARKING:** As size permits, the following markings will be used (listed in order of preference):
Capacitance
Mfg. Identification
Tolerance
Voltage
Lot Code

@ +25°C.		25 VDC		50 VDC		100 VDC	
CAP		D	L	D	L	D	L
10 pF		.130	.260	.130	.260	.130	.260
12		.130	.260	.130	.260	.130	.260
15		.130	.260	.130	.260	.130	.260
18		.130	.260	.130	.260	.130	.260
22		.130	.260	.130	.260	.130	.260
27		.130	.260	.130	.260	.130	.260
33		.130	.260	.130	.260	.130	.260
39		.130	.260	.130	.260	.130	.260
47		.130	.260	.130	.260	.130	.260
56		.130	.260	.130	.260	.130	.260
68		.130	.260	.130	.260	.130	.260
82		.130	.260	.130	.260	.130	.260
100		.130	.260	.130	.260	.130	.260
120		.130	.260	.130	.260	.130	.260
150		.130	.260	.130	.260	.130	.260
180		.130	.260	.130	.260	.130	.260
220		.130	.260	.130	.260	.130	.260
270		.130	.260	.130	.260	.130	.260
330		.130	.260	.130	.260	.130	.260
390		.130	.260	.130	.260	.130	.260
470		.130	.260	.130	.260	.130	.260
560		.130	.260	.130	.260	.130	.260
680		.130	.260	.130	.260	.130	.260
820		.130	.260	.130	.260	.130	.260
1000		.130	.260	.130	.260	.130	.260
1200		.130	.260	.130	.260	.150	.435
1500		.130	.260	.130	.260	.150	.435
1800		.130	.260	.130	.260	.150	.435
2200		.130	.260	.130	.260	.150	.435
2700		.130	.260	.130	.260	.210	.515

@ +25°C.		25 VDC		50 VDC		100 VDC	
CAP		D	L	D	L	D	L
3300 pF		.130	.260	.150	.435	.210	.515
3900		.150	.435	.150	.435	.210	.515
4700		.150	.435	.150	.435	.210	.515
5600		.150	.435	.150	.435	.210	.515
6800		.150	.435	.210	.515	.210	.515
8200		.210	.515	.210	.515	.360	.705
.010 Mfd		.210	.515	.210	.515	.360	.705
.012		.210	.515	.210	.515	.360	.705
.015		.210	.515	.360	.705	.360	.705
.018		.210	.515	.360	.705	.360	.705
.022		.360	.705	.360	.705	.360	.705
.027		.360	.705	.360	.705	.360	.705
.033		.360	.705	.360	.705	.360	.705
.039		.360	.705	.360	.705	.360	.705
.047		.360	.705	.360	.705	.360	.705
.056		.360	.705	.360	.705	.510	.705
.068		.360	.705	.360	.705	.510	.705
.082		.360	.705	.360	.705		
.10		.360	.705	.510	.705		
.12		.360	.705	.510	.705		
.15		.490	.705	.510	.705		
.18		.490	.705				
.22		.490	.705				

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