

Lower Voltage Ceramic Disc Capacitors 1000 VDC Precision Capacitors

Fig. 1

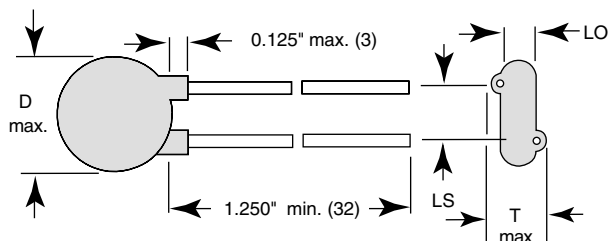
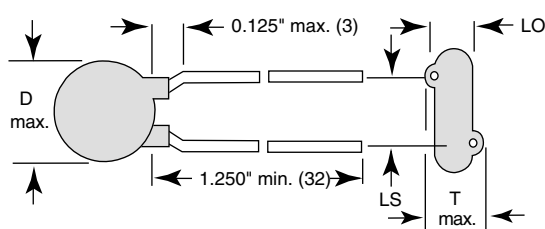


Fig. 2



LEAD OFFSET 'LO' (NOMINAL)	
1000 VDC	0.050" (1.3 mm)

INSULATION RESISTANCE

Min. 1000 Ω F or 50 000 M Ω

TOLERANCE ON CAPACITANCE

$\pm 5\%$

DISSIPATION FACTOR

0.1 % max. at 1 MHz; 1 V

CATEGORY TEMPERATURE RANGE

(- 55 to + 125) °C

CLIMATIC CATEGORY ACC. TO EN60068-1

55/125/21

OPERATING TEMPERATURE RANGE

(- 55 to + 105) °C

FEATURES

- Ultra stable over temperature and voltage
- Used when the ultimate in stability is required
- Radial leads



RoHS
COMPLIANT

APPLICATIONS

- Temperature compensating
- Resonant circuit

DESIGN

The capacitors consist of a ceramic disc of which both sides are silver-plated. Connection leads are made of tinned copper or tinned copper clad steel having diameters of 0.020" (0.51 mm) or 0.025" (0.64 mm).

The capacitors may be supplied with radial kinked or straight leads having lead spacing of 0.250" (6.35 mm) or 0.375" (9.5 mm).

Coating is made of flame retardant epoxy resin in accordance with "UL 94 V-0".

CAPACITANCE RANGE

1.0 pF to 680 pF

RATED VOLTAGE

1000 VDC

DIELECTRIC STRENGTH BETWEEN LEADS

Component test:
2500 VDC, 2 s

CERAMIC DIELECTRIC

C0K, C0G, U2J, M3K, S3N (Class 1)

ORDERING INFORMATION, CERAMIC 1000 VDC PRECISION CAPACITORS

C (pF)	TOL. (%)	D DIAMETER INCH (mm)	T THICKNESS INCH (mm)	LS LEAD SPACE	WIRE SIZE		FIG.	ORDERING CODE						
					AWG	INCH (mm)								
C0K														
1.0	± 0.5 pF	0.250 (6.4)	0.156 (4.0)	0.250 (6.4)	24	0.020 (0.51)	2	561R10TCCV10						
2.2								561R10TCCV22						
2.7								561R10TCCV27						
C0G (NP0)														
3.0	± 0.5 pF	0.250 (6.4)	0.156 (4.0)	0.250 (6.4)	24	0.020 (0.51)	2	561R10TCCV30						
3.3								561R10TCCV33						
3.9								561R10TCCV39						
4.7								561R10TCCV47						
5.0								561R10TCCV50						
5.6								561R10TCCV56						
6.8								561R10TCCV68						
8.2								561R10TCCV82						
10	± 5 %	0.290 (7.4)	0.156 (4.0)	0.250 (6.4)	24	0.020 (0.51)	2	561R10TCCQ10						
12								561R10TCCQ12						
15								561R10TCCQ15						
18								561R10TCCQ18						
20								561R10TCCQ20						
22								561R10TCCQ22						
25								561R10TCCQ25						
27								561R10TCCQ27						
30		0.370 (9.4)	0.156 (4.0)	0.250 (6.4)	22	0.025 (0.64)	1	561R10TCCQ30						
33								561R10TCCQ33						
39								561R10TCCQ39						
47								561R10TCCQ47						
50								0.440 (11.2)	0.156 (4.0)	0.250 (6.4)				561R10TCCQ50
56														561R10TCCQ56
68														561R10TCCQ68
100														561R10TCCT10
120	0.560 (14.2)	0.156 (4.0)	0.375 (9.5)				561R10TCCT12							
220							561R10TCCT22							
U2J (N750)														
33	± 5 %	0.290 (7.4)	0.156 (4.0)	0.250 (6.4)	24	0.020 (0.51)	2	561R10TCUQ33						
68		0.370 (9.4)	0.156 (4.0)	0.250 (6.4)	22	0.025 (0.64)		561R10TCUQ68						
M3K (N1000)														
560	± 5 %	0.560 (14.2)	0.156 (4.0)	0.375 (9.5)	22	0.025 (0.64)	1	561R10TCUT56						
S3N (N3300)														
680	± 5 %	0.630 (16.0)	0.156 (4.0)	0.375 (9.5)	22	0.025 (0.64)	1	561R10TCUT68						



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