

## Lower Voltage Ceramic Disc Capacitors 1000 VDC Precision Capacitors

Fig. 1

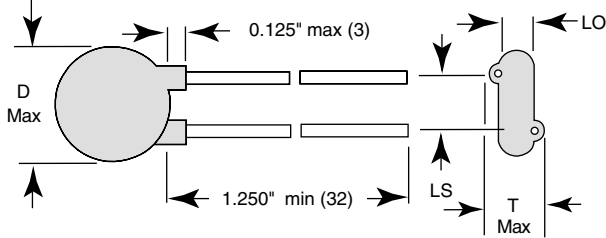
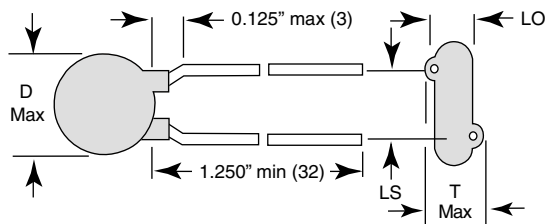


Fig. 2



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

**INSULATION RESISTANCE:**

min. 1000 ΩF or 50 000 MΩ

**TOLERANCE ON CAPACITANCE:**

± 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



**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 "UL94V-0".

**CAPACITANCE RANGE:**

1.0 pF to 1000 pF

**RATED VOLTAGE:**

1000 VDC

**DIELECTRIC STRENGTH BETWEEN LEADS:**

Component test:  
2500 VDC, 2 s

**CERAMIC DIELECTRIC:**

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



<b>ORDERING INFORMATION, CERAMIC 1000 VDC PRECISION CAPACITORS</b>									
C (pF)	TOL. (%)	D DIAMETER INCH (mm)	T THICKNESS INCH (mm)	LS LEAD SPACE	WIRE SIZE		FIG.	ORDERING CODE	
					AWG	INCH (mm)			
<b>C0K (P100)</b>									
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	
<b>COG (NPO)</b>									
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)	22	0.025 (0.64)	1	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)	0.250 (6.4)	22	0.025 (0.64)	1	561R10TCCQ30
33									561R10TCCQ33
39									561R10TCCQ39
47									561R10TCCQ47
50									561R10TCCQ50
56									561R10TCCQ56
68									561R10TCCQ68
82									561R10TCCQ82
100	0.560 (14.2)	0.156 (4.0)	0.375 (9.5)	0.375 (9.5)	22	0.025 (0.64)	1	561R10TCCT10	
120								561R10TCCT12	
150								561R10TCCT15	
180								561R10TCCT18	
220								561R10TCCT22	
270								561R10TCCT27	
<b>U2J (N750)</b>									
33	± 5 %	0.290 (7.4)	0.156 (4.0)	0.250 (6.4)	24	0.020 (0.51)	2	561R10TCUQ33	
47								561R10TCUQ47	
68		0.370 (9.4)	0.156 (4.0)	0.250 (6.4)	22	0.025 (0.64)	1	561R10TCUQ68	
100								561R10TCUT10	
<b>M3K (N1000)</b>									
220	± 5 %	0.440 (11.2)	0.156 (4.0)	0.250 (6.4)	22	0.025 (0.64)	1	561R10TCUT22	
330		0.490 (12.4)	0.156 (4.0)	0.250 (6.4)				561R10TCUT33	
470		0.560 (14.2)	0.156 (4.0)	0.375 (9.5)				561R10TCUT47	
560								561R10TCUT56	
<b>S3N (N3300)</b>									
680	± 5 %	0.630 (16.0)	0.156 (4.0)	0.375 (9.5)	22	0.025 (0.64)	1	561R10TCUT68	
1000		0.680 (17.3)	0.156 (4.0)	0.375 (9.5)				561R10TCUD10	



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