

Lower Voltage Ceramic Disc Capacitors 1000 VDC Precision Capacitors

Fig. 1

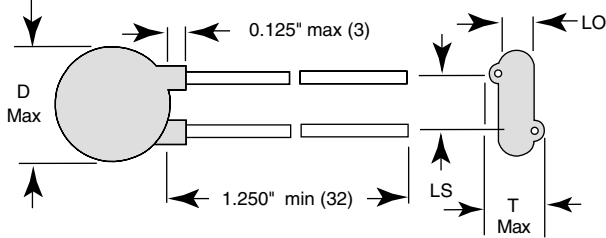
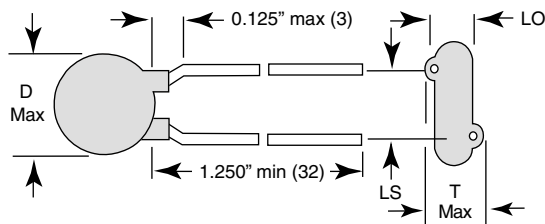


Fig. 2



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)

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 (P100)														
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 (NPO)														
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						
U2J (N750)														
33								± 5 %	0.290 (7.4)	0.156 (4.0)	0.250 (6.4)	24	0.020 (0.51)	2
47	561R10TCUQ47													
68	0.370 (9.4)	0.156 (4.0)	0.250 (6.4)	22	0.025 (0.64)	1	561R10TCUQ68							
100							561R10TCUT10							
M3K (N1000)														
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						
S3N (N3300)														
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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