

Lower Voltage Ceramic Disc Capacitors 1000 VDC Temperature & Voltage Stabilized

Fig. 1

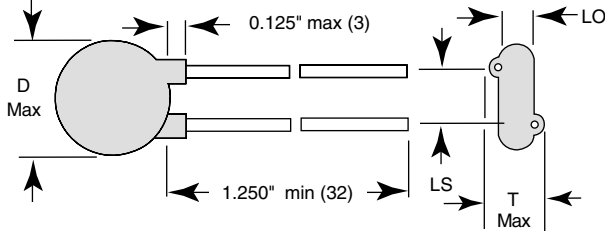
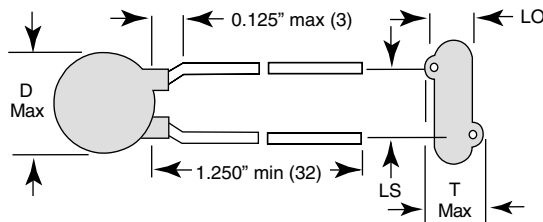


Fig. 2



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

INSULATION RESISTANCE:

min. 1000 ΩF or 50 000 MOhms

TOLERANCE ON CAPACITANCE:

± 10 %

DISSIPATION FACTOR:

2.0 % max. at 1 kHz; 1 V

CATEGORY TEMPERATURE RANGE:

(- 55 to + 125) °C C0G, U2J

(- 25 to + 85) °C X5F, X5S

CLIMATIC CATEGORY ACC. TO EN60068-1:

55/125/21 C0G, U2J

25/085/21 X5F, X5S

OPERATING TEMPERATURE RANGE:

(- 55 to + 105) °C

FEATURES

- Low losses
- High stability
- High capacitance in small size
- Complete Range of Capacitance Values



RoHS
COMPLIANT

APPLICATIONS

- Bypassing
- Resonant circuit
- Coupling

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).

The standard tolerances are ± 10 % or ± 20 %.

Coating is made of resin coating or flame retardant epoxy resin in accordance with "UL94V-0".

CAPACITANCE RANGE:

10 pF to 0.10 μF

RATED VOLTAGE:

1000 VDC

DIELECTRIC STRENGTH BETWEEN LEADS:

Component test:

2500 VDC, 2 s

CERAMIC DIELECTRIC:

C0G, U2J (Class 1)

X5F, X5S (Class 2)



ORDERING INFORMATION, CERAMIC 1000 VDC TEMPERATURE & VOLTAGE STABILIZED								
C (pF)	TOL. (%)	D DIAMETER INCH (mm)	T THICKNESS INCH (mm)	LS LEAD SPACE INCH (mm)	WIRE SIZE		FIG.	ORDERING CODE
					AWG	INCH (mm)		
COG (NP0)								
10	± 10 %	0.250 (6.4)	0.156 (4.0)	0.250 (6.4)	24	0.020 (0.51)	2	561R10TSQ10
25		0.290 (7.4)	0.156 (4.0)	0.250 (6.4)				561R10TSQ25
U2J (N750)								
27	± 10 %	0.250 (6.4)	0.156 (4.0)	0.250 (6.4)	24	0.020 (0.51)	2	561R10TSQ27
30								561R10TSQ30
33								561R10TSQ33
39		0.290 (7.4)	0.156 (4.0)	0.250 (6.4)				561R10TSQ39
47								561R10TSQ47
50								561R10TSQ50
X5F								
56	± 10 %	0.250 (6.4)	0.156 (4.0)	0.250 (6.4)	24	0.020 (0.51)	2	562R10TSQ56
68								562R10TSQ68
75								562R10TSQ75
82								562R10TSQ82
100								562R10TST10
120								562R10TST12
150								562R10TST15
180								562R10TST18
200								562R10TST20
220								562R10TST22
250								562R10TST25
270								562R10TST27
300								562R10TST30
330								562R10TST33
390								562R10TST39
470		562R10TST47						
500		562R10TST50						
560		0.290 (7.4)	0.156 (4.0)	0.250 (6.4)	24	0.020 (0.51)	2	562R10TST56
680								562R10TST68
750								562R10TST75
820								562R10TST82
1000								562R10TSD10
1500								562R10TSD15
2000		0.490 (12.4)	0.156 (4.0)	0.375 (9.5)	22	0.025 (0.64)	1	562R10TSD20
2200		0.490 (12.4)	0.156 (4.0)	0.375 (9.5)				562R10TSD22
2700		0.560 (14.2)	0.156 (4.0)	0.375 (9.5)				562R10TSD27
3300		0.560 (14.2)	0.156 (4.0)	0.375 (9.5)				562R10TSD33
4700	0.680 (17.3)	0.156 (4.0)	0.375 (9.5)	562R10TSD47				
7500	0.680 (17.3)	0.156 (4.0)	0.375 (9.5)	562R10TSD75				
X5S								
0.010 μF	± 10 %	0.680 (17.3)	0.156 (4.0)	0.375 (9.5)	22	0.025 (0.64)	1	562R10TSS10

TAPE & REEL OPTIONS

Tape & Reel available on diameter sizes 0.250" to 0.680"

To specify T & R, add two letter suffix to the ordering code (Details of the packaging code see general section of the catalog)



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