

Lower Voltage Ceramic Disc Capacitors 1000 VDC Temperature and Voltage Stabilized

Fig. 1

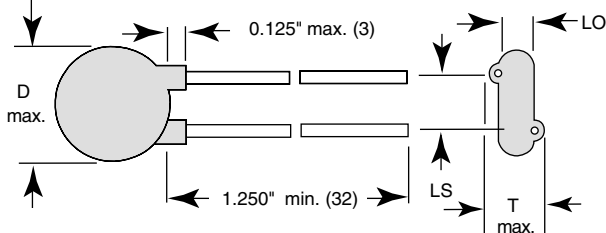
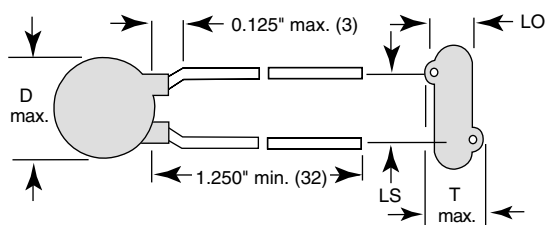


Fig. 2



FEATURES

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



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 is $\pm 10\%$

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

CAPACITANCE RANGE

10 pF to 2700 pF

RATED VOLTAGE

1000 VDC

DIELECTRIC STRENGTH BETWEEN LEADS

Component test:
2500 VDC, 2 s

CERAMIC DIELECTRIC

C0G, U2J (Class 1)
X5F (Class 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

$\pm 10\%$

DISSIPATION FACTOR

2.0 % max. at 1 kHz; 1 V

CATEGORY TEMPERATURE RANGE

(- 55 to + 125) °C C0G, U2J
(- 25 to + 85) °C X5F

CLIMATIC CATEGORY ACC. TO EN60068-1

55/125/21 C0G, U2J
25/085/21 X5F

OPERATING TEMPERATURE RANGE

(- 55 to + 105) °C

561R and 562R

Vishay Cera-Mite

Lower Voltage Ceramic Disc Capacitors
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ORDERING INFORMATION, CERAMIC 1000 VDC TEMPERATURE AND 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)		
C0G (NP0)								
10	± 10 %	0.250 (6.4)	0.156 (4.0)	0.250 (6.4)	24	0.020 (0.51)	2	561R10TSQ10
U2J (N750)								
27	± 10 %	0.290 (7.4)	0.156 (4.0)	0.250 (6.4)	24	0.020 (0.51)	2	561R10TSQ27
30								561R10TSQ30
33								561R10TSQ33
39								561R10TSQ39
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								0.440 (11.2)
2000		0.490 (12.4)	0.156 (4.0)	0.375 (9.5)	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			

TAPE AND REEL OPTIONS

- Tape and Reel available on diameter sizes 0.250" to 0.680"
- To specify Tape and Reel, add two letter suffix to the ordering code (Details of the packaging code see general section of the catalog)



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