

Lower Voltage Ceramic Disc Capacitors 1000 VDC General Purpose

Fig. 1

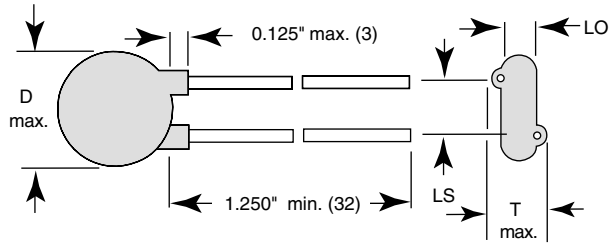
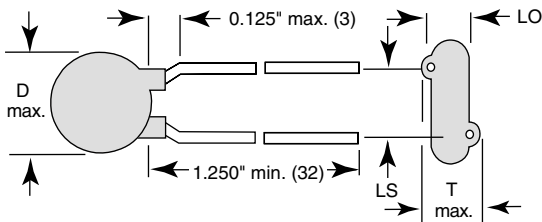


Fig. 2



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

INSULATION RESISTANCE

1000 VDC: min. 1000 Ω F or 20 000 M Ω

TOLERANCE ON CAPACITANCE

$\pm 20\%$

DISSIPATION FACTOR

1000 VDC: 2.5 % max. at 1 kHz; 1 V

CATEGORY TEMPERATURE RANGE

(- 55 to + 125) °C C0G, U2J, X7R

(- 25 to + 85) °C X5F, Y5U, Z5U

CLIMATIC CATEGORY ACC. TO EN60068-1

55/125/21 C0G, U2J, X7R

25/085/21 X5F, Y5U, Z5U

OPERATING TEMPERATURE RANGE

(- 55 to + 105) °C

FEATURES

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



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 tolerance is $\pm 20\%$.

Coating is made of resin coating or flammable resistant epoxy resin in accordance with "UL 94 V-0".

CAPACITANCE RANGE

10 pF to 0.015 μ F

RATED VOLTAGE

1000 VDC

DIELECTRIC STRENGTH BETWEEN LEADS

Component test:

1000 VDC 2500 VDC, 2 s

CERAMIC DIELECTRIC

C0G, U2J, (Class 1)

X5F, X7R, Y5U, Z5U (Class 2)

561R, 562R Series



Vishay Cera-Mite

Lower Voltage Ceramic Disc Capacitors
1000 VDC General Purpose

ORDERING INFORMATION, CERAMIC 1000 VDC GENERAL PURPOSE															
C (pF)	TOL. (%)	D DIAMETER INCH (mm)	T THICKNESS INCH (mm)	LS LEAD SPACE	FIG.	WIRE SIZE		ORDERING CODE							
						AWG	INCH (mm)								
C0G (NP0)															
10	± 20 %	0.250 (6.4)	0.156 (4.0)	0.250 (6.4)	2	24	0.020 (0.51)	561R5GAQ10							
U2J (N750)															
33	± 20 %	0.290 (7.4)	0.156 (4.0)	0.250 (6.4)	2	24	0.020 (0.51)	561R5GAQ33							
X5F															
100	± 20 %	0.250 (6.4)	0.156 (4.0)	0.250 (6.4)	2	24	0.020 (0.51)	562R5GAT10							
150								562R5GAT15							
200								562R5GAT20							
220								562R5GAT22							
330								562R5GAT33							
470								562R5GAT47							
500								562R5GAT50							
X7R															
1000	± 20 %	0.290 (7.4)	0.156 (4.0)	0.250 (6.4)	2	24	0.020 (0.51)	562R5GAD10							
Y5U															
1000	+ 100 - 0 %	0.290 (7.4)	0.156 (4.0)	0.250 (6.4)	2	24	0.020 (0.51)	562R5HKD10							
Z5U															
1200	± 20 %	0.290 (7.4)	0.156 (4.0)	0.250 (6.4)	2	24	0.020 (0.51)	562R5GAD12							
1500								562R5GAD15							
2000								562R5GAD20							
2200								562R5GAD22							
2500								562R5GAD25							
2700								562R5GAD27							
3000								562R5GAD30							
3300								562R5GAD33							
4700								0.370 (9.4)	0.156 (4.0)	0.250 (6.4)	1	22	0.025 (0.64)	562R5GAD47	
5000								0.370 (9.4)	0.156 (4.0)	0.250 (6.4)				562R5GAD50	
6800								0.440 (11.2)	0.156 (4.0)	0.250 (6.4)				562R5GAD68	
8200								0.440 (11.2)	0.156 (4.0)	0.250 (6.4)				562R5GAD82	
0.010 μF								+ 100 - 0 %	0.490 (12.4)	0.156 (4.0)	0.375 (9.5)	1	22	0.025 (0.64)	562R5GAS10
0.010 μF															562R5HKMS10
0.010 μF	562R5HKS10														
0.015 μF	± 20 %	0.560 (14.2)	0.156 (4.0)	0.375 (9.5)	562R5GAS15										

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 selection of the catalog.)



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