

Lower Voltage Ceramic Disc Capacitors 1000 VDC General Purpose

Fig. 1

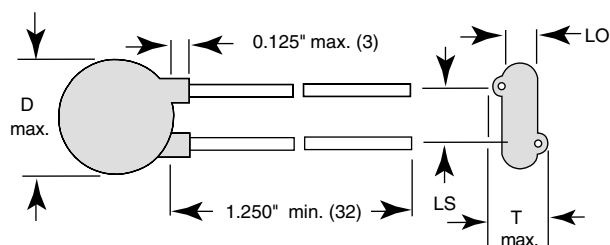
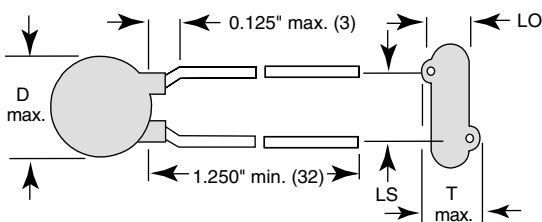


Fig. 2



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		0.490 (12.4)	0.156 (4.0)	0.375 (9.5)				562R5GAS10
0.010 µF		0.490 (12.4)	0.156 (4.0)	0.250 (6.4)				562R5HKMS10
0.010 µF	+ 100 - 0 %	0.490 (12.4)	0.156 (4.0)	0.375 (9.5)				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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