

Vishay Cera-Mite

# Lower Voltage Ceramic Disc Capacitors 1000 VDC General Purpose

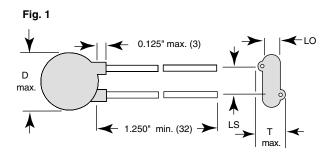
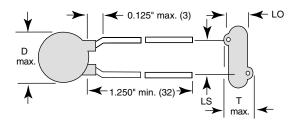


Fig. 2



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

#### **INSULATION RESISTANCE**

1000 VDC: min. 1000  $\Omega$ F or 20 000 M $\Omega$ 

### **TOLERANCE ON CAPACITANCE**

± 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  $\mu$ 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

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C TOL. (%)	TOL.	D	T THICKNESS INCH (mm)	LS LEAD SPACE	FIG.	WIRE SIZE		ORDERING
	(%)	DIAMETER INCH (mm)				AWG	INCH (mm)	CODE
C0G (NP0)			•	-				
10	± 20 %	0.250 (6.4)	0.156 (4.0)	0.250 (6.4)	2	24	0.020 (0.51)	561R5GAQ1
U2J (N750)								
33	± 20 %	0.290 (7.4)	0.156 (4.0)	0.250 (6.4)	2	24	0.020 (0.51)	561R5GAQ3
X5F								
100	± 20 %	0.250 (6.4)	0.156 (4.0)	0.250 (6.4)	2	24	0.020 (0.51)	562R5GAT1
150								562R5GAT1
200								562R5GAT2
220								562R5GAT2
330								562R5GAT3
470								562R5GAT4
500								562R5GAT5
X7R								
1000	± 20 %	0.290 (7.4)	0.156 (4.0)	0.250 (6.4)	2	24	0.020 (0.51)	562R5GAD
Y5U								
1000	+ 100 - 0 %	0.290 (7.4)	0.156 (4.0)	0.250 (6.4)	2	24	0.020 (0.51)	562R5HKD1
Z5U								
1200		0.290 (7.4)	0.156 (4.0)	0.250 (6.4)	2	24	0.020 (0.51)	562R5GAD
1500								562R5GAD
2000	± 20 %							562R5GAD
2200								562R5GAD2
2500								562R5GAD
2700								562R5GAD
3000								562R5GAD
3300								562R5GAD
4700		0.370 (9.4)	0.156 (4.0)	0.250 (6.4)	1	22	0.025 (0.64)	562R5GAD
5000	]	0.370 (9.4)	0.156 (4.0)	0.250 (6.4)				562R5GAD
6800		0.440 (11.2)	0.156 (4.0)	0.250 (6.4)				562R5GAD6
8200		0.440 (11.2)	0.156 (4.0)	0.250 (6.4)				562R5GAD8
0.010 μF		0.490 (12.4)	0.156 (4.0)	0.375 (9.5)				562R5GAS1
0.010 μF	]	0.490 (12.4)	0.156 (4.0)	0.250 (6.4)				562R5HKMS
0.010 μF	+ 100 - 0 %	0.490 (12.4)	0.156 (4.0)	0.375 (9.5)				562R5HKS1
0.015 μF	± 20 %	0.560 (14.2)	0.156 (4.0)	0.375 (9.5)				562R5GAS1

### **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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