

Lower Voltage Ceramic Disc Capacitors 100 VDC to 1000 VDC

Fig. 1

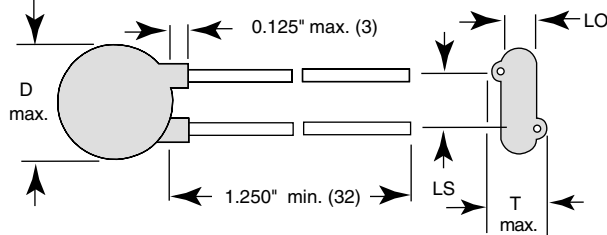
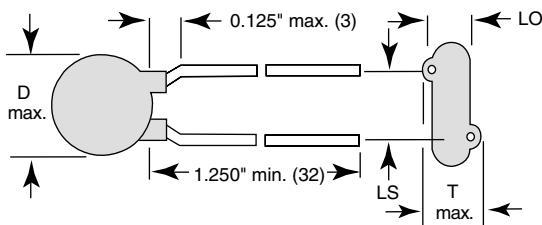


Fig. 2



LEAD OFFSET 'LO' (NOMINAL)	
100 VDC	0.040 (1.0 mm)
500 VDC	0.040 (1.0 mm)
1000 VDC	0.050 (1.3 mm)

INSULATION RESISTANCE:

100 VDC: min. 500 ΩF or 10 000 MΩ
 500 VDC: min. 750 ΩF or 15 000 MΩ
 1000 VDC: min. 1000 ΩF or 20 000 MΩ

TOLERANCE ON CAPACITANCE:

± 5 %; ± 10 %; ± 20 %

DISSIPATION FACTOR:

100 VDC: 3.0 % max. at 1 kHz; 1 V
 500 VDC: 3.0 % max. at 1 kHz; 1 V
 1000 VDC: 2.5 % max. at 1 kHz; 1 V

CATEGORY TEMPERATURE RANGE:

(- 55 to + 125) °C C0G, U2J, X7R, X7S
 (- 25 to + 85) °C X5F, Y5U, Y5V, Z5U

CLIMATIC CATEGORY ACC. TO EN60068-1:

55/125/21 C0G, U2J, X7R, X7S
 25/085/21 X5F, Y5U, Y5V, Z5U

OPERATING TEMPERATURE RANGE:

(- 55 to + 105) °C

FEATURES

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



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 flammable resistant epoxy resin in accordance with "UL94V-0".

CAPACITANCE RANGE:

10 pF to 0.15 μF

RATED VOLTAGE:

100 VDC
 500 VDC
 1000 VDC

DIELECTRIC STRENGTH BETWEEN LEADS:

Component test:

100 VDC 500 VDC, 2 s
 500 VDC 1500 VDC, 2 s
 1000 VDC 2500 VDC, 2 s

CERAMIC DIELECTRIC:

C0G, U2J, (Class 1)
 X5F, X7R, X7S, Y5U, Y5V, Z5U (Class 2)

561R, 562R & 565R Series



Vishay Cera-Mite

Lower Voltage Ceramic Disc Capacitors
100 VDC to 1000 VDC

ORDERING INFORMATION, CERAMIC 100 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	± 5 %	0.250 (6.4)	0.156 (4.0)	0.197 (5.0)	1	24	0.020 (0.51)	561RTSQ10
22								561RTSQ22
U2J (N750)								
33	± 10 %	0.250 (6.4)	0.156 (4.0)	0.197 (5.0)	1	24	0.020 (0.51)	561RTSQ33
47								561RTSQ47
X7R								
100	± 10 %	0.250 (6.4)	0.156 (4.0)	0.197 (5.0)	1	24	0.020 (0.51)	562RTST10
220		0.250 (6.4)	0.156 (4.0)					562RTST22
330		0.250 (6.4)	0.156 (4.0)					562RTST33
470		0.250 (6.4)	0.156 (4.0)					562RTST47
1000		0.250 (6.4)	0.156 (4.0)			562RTSD10		
2200		0.370 (9.4)	0.156 (4.0)			562RTSD22		
3300		0.370 (9.4)	0.156 (4.0)			562RTSD33		
X7S								
4700	± 10 %	0.440 (11.2)	0.156 (4.0)	0.197 (5.0)	1	22	0.025 (0.64)	562RTSD47
6800		0.490 (12.4)	0.156 (4.0)					562RTSD68
0.01 μF		0.560 (14.2)	0.156 (4.0)					562RTSS10
0.022 μF	± 20 %	0.580 (14.7)	0.200 (5.1)	0.375 (9.5)				565RTSS22
Z5U								
0.005 μF	± 20 %	0.290 (7.4)	0.156 (4.0)	0.250 (6.4)	1	24	0.020 (0.51)	562RTGD50
0.01 μF		0.370 (9.4)	0.156 (4.0)			562RTGS10		
0.02 μF		0.440 (11.2)	0.156 (4.0)			562RTGS20		
0.047 μF		0.510 (13.0)	0.200 (5.1)	0.375 (9.5)		22	0.025 (0.64)	565RTGS47
0.050 μF		0.510 (13.0)	0.200 (5.1)					565RTGS50
0.10 μF		0.700 (17.8)	0.200 (5.1)					565RTGP10

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 selection of the catalog)



561R, 562R & 565R Series

Lower Voltage Ceramic Disc Capacitors
100 VDC to 1000 VDC

Vishay Cera-Mite

ORDERING INFORMATION, CERAMIC 500 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)	
X7R								
1000	± 10 %	0.290 (7.4)	0.156 (4.0)	0.250 (6.4)	2	24	0.025 (0.64)	562R5TSD10
1500	± 10 %	0.370 (9.4)				22		562R5TSD15
2200	± 10 %					1		562R5TSD22
3300	± 10 %	0.440 (11.2)				1		562R5TSD33
4700	± 10 %	0.490 (12.4)				1		562R5TSD47
X7S								
0.0068 µF	± 10 %	0.490 (12.4)	0.156 (4.0)	0.250 (6.4)	1	22	0.025 (0.64)	562R5TSD68
0.010 µF	± 10 %	0.560 (14.2)	0.156 (4.0)	0.375 (9.5)				562R5TSS10
0.022 µF	± 20 %	0.680 (17.3)	0.200 (5.1)	0.375 (9.5)				562R5TSS22
0.033 µF	± 20 %	0.770 (19.6)	0.200 (5.1)	0.375 (9.5)				565R5TSS33
Y5U								
1000	± 20 %	0.250 (6.4)	0.156 (4.0)	0.250 (6.4)	2	24	0.020 (0.51)	562R5TSSD10
Y5V								
0.10 µF	- 20 + 50 %	0.950 (24.1)	0.156 (4.0)	0.375 (9.5)	1	22	0.025 (0.64)	562R5HKSP10
Z5U								
5000	- 20 + 80 %	0.370 (9.4)	0.156 (4.0)	0.250 (6.4)	1	22	0.025 (0.64)	562R5TSD50
0.010 µF	± 20 %	0.440 (11.2)						562R5GASS10
0.010 µF	- 20 + 80 %		0.156 (4.0)	0.375 (9.5)				562R5HKSS10
0.020 µF	± 20 %	0.560 (14.2)	0.200 (5.1)	0.375 (9.5)				562R5GASS20
0.050 µF	± 20 %	0.890 (22.6)	0.200 (5.1)	0.375 (9.5)				562R5GASS50
0.050 µF	- 20 + 80 %	0.680 (17.3)						565R5HKS50
0.10 µF	± 20 %							0.770 (19.6)
0.10 µF	- 20 + 80 %	565R5HKP10						
0.15 µF	- 20 + 50 %	0.900 (22.9)			565R5GAP15			
0.20 µF	± 20 %	0.950 (24.1)	565R5GAP20					

TAPE & REEL OPTIONS

- Tape & Reel available on diameter sizes 0.250" to 0.680" (Except 565R series)
- To specify T & R, add two letter suffix to the ordering code (Details of the packaging code see general selection of the catalog)

561R, 562R & 565R Series



Vishay Cera-Mite

Lower Voltage Ceramic Disc Capacitors
100 VDC to 1000 VDC

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)							
COG (NP0)														
10	± 20 %	0.250 (6.4)	0.156 (4.0)	0.250 (6.4)	2	24	0.020 (0.51)	561R5GAQ10						
20								561R5GAQ20						
U2J (N750)														
33	± 20 %	0.290 (7.4)	0.156 (4.0)	0.250 (6.4)	2	24	0.020 (0.51)	561R5GAQ33						
47								561R5GAQ47						
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	562R5GAS15													
0.020 µF	562R5GAS20													
0.050 µF	565R10HKS50													
0.10 µF	565R10GAP10													
0.10 µF	± 20 %								0.950 (24.1)	0.200 (5.1)	0.375 (9.5)	1	22	0.025 (0.64)

TAPE & REEL OPTIONS

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