

Lower Voltage Ceramic DC Disc Capacitors 1000 V_{DC} Temperature and Voltage Stabilized


RoHS
COMPLIANT

FEATURES

- Low losses
- High stability
- High capacitance in small size
- Complete range of capacitance values
- Radial leads
- Ceramic singlelayer capacitor
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

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 $\pm 10\%$.

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

CAPACITANCE RANGE

10 pF to 10 nF

RATED VOLTAGE

1000 V_{DC}

DIELECTRIC STRENGTH BETWEEN LEADS

Component test:

2500 V_{DC}, 2 s

CERAMIC DIELECTRIC

C0G, U2J (Class 1)

X5F, X7R (Class 2)

QUICK REFERENCE DATA				
DESCRIPTION	VALUE			
Ceramic Class	1		2	
Ceramic Dielectric	C0G	U2J	X5F	X7R
Voltage (V _{DC})	1000			
Min. Capacitance (pF)	10	27	56	10 000
Max. Capacitance (pF)	10	39	4700	10 000
Mounting	Radial			

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, X7R

(- 25 to + 85) °C X5F

CLIMATIC CATEGORY ACC. TO EN 60068-1

55/125/21 C0G, U2J, X7R

25/085/21 X5F

OPERATING TEMPERATURE RANGE

(- 55 to + 105) °C

DIMENSIONS in inches (millimeters)	
LEAD OFFSET "LO" (nominal)	
1000 V _{DC}	0.050" (1.3 mm)

ORDERING INFORMATION, CERAMIC 1000 V _{DC} TEMPERATURE AND VOLTAGE STABILIZED															
C (pF)	TOL. (%)	D DIAMETER INCH (mm)	T THICKNESS INCH (mm)	LS LEAD SPACE INCH (mm)	AWG	WIRE SIZE INCH (mm)	FIG.	ORDERING CODE							
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)	0.250 (6.4)	24	0.020 (0.51)	2	562R10TST56						
680									562R10TST68						
750									562R10TST75						
820	562R10TST82														
1000	562R10TSD10														
1500	0.440 (11.2)								0.156 (4.0)	0.250 (6.4)	0.250 (6.4)	22	0.025 (0.64)	1	562R10TSD15
2000															562R10TSD20
2200															562R10TSD22
2700															562R10TSD27
3300															562R10TSD33
4700		562R10TSD47													
X7R															
0.010 μF		± 10	0.680 (17.3)	0.156 (4.0)	0.375 (9.5)	22	0.025 (0.64)	1							562R10TSS10

TAPE AND REEL OPTIONS

- Tape and reel available on diameter sizes 0.250" to 0.680"
- Part number codes and specifications for tape and reel packaging are found in the general information document - find web-link below

RELATED DOCUMENTS	
General Information	www.vishay.com/doc?23140



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