

## Lower Voltage Ceramic DC Disc Capacitors 1000 V<sub>DC</sub> 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](http://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<sub>DC</sub>

**DIELECTRIC STRENGTH BETWEEN LEADS**

Component test:

2500 V<sub>DC</sub>, 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 <sub>DC</sub> )	1000			
Min. Capacitance (pF)	10	27	56	10 000
Max. Capacitance (pF)	10	39	4700	10 000
Mounting	Radial			

**INSULATION RESISTANCE**

Min. 1000 ΩF or 50 000 MΩ

**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)	
<b>LEAD OFFSET "LO" (nominal)</b>	
1000 V <sub>DC</sub>	0.050" (1.3 mm)

ORDERING INFORMATION, CERAMIC 1000 V <sub>DC</sub> 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
<b>C0G (NP0)</b>								
10	± 10	0.250 (6.4)	0.156 (4.0)	0.250 (6.4)	24	0.020 (0.51)	2	561R10TSQ10
<b>U2J (N750)</b>								
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
<b>X5F</b>								
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		562R10TST56						
680		562R10TST68						
750		562R10TST75						
820	562R10TST82							
1000	562R10TSD10							
1500	0.440 (11.2)	0.156 (4.0)	0.250 (6.4)	22	0.025 (0.64)	1	562R10TSD15	
2000	0.490 (12.4)	0.156 (4.0)	0.375 (9.5)				562R10TSD20	
2200	0.490 (12.4)	0.156 (4.0)	0.375 (9.5)				562R10TSD22	
2700	0.560 (14.2)	0.156 (4.0)	0.375 (9.5)				562R10TSD27	
3300	0.560 (14.2)	0.156 (4.0)	0.375 (9.5)				562R10TSD33	
4700	0.680 (17.3)	0.156 (4.0)	0.375 (9.5)				562R10TSD47	
<b>X7R</b>								
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	<a href="http://www.vishay.com/doc?23140">www.vishay.com/doc?23140</a>



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<http://moschip.ru/get-element>

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На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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