

## Lower Voltage Ceramic DC Disc Capacitors 1000 V<sub>DC</sub> General Purpose


**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  $\pm 20\%$ .

Coating is made of resin coating or flammable resistant epoxy resin in accordance with "UL 94 V-0".

**CAPACITANCE RANGE**

10 pF to 0.1  $\mu$ F

**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, Y5U, Z5U (Class 2)

QUICK REFERENCE DATA						
DESCRIPTION	VALUE					
Ceramic Class	1			2		
Ceramic Dielectric	C0G	U2J	X5F	X7R	Y5U	Z5U
Voltage (V <sub>DC</sub> )	1000					
Min. Capacitance (pF)	10	33	100	1000	1000	1200
Max. Capacitance (pF)	10	33	500	1000	1000	100 000
Mounting	Radial					

**INSULATION RESISTANCE**

Min. 1000  $\Omega$ F or 20 000 M $\Omega$

**TOLERANCE ON CAPACITANCE**

$\pm 20\%$

**DISSIPATION FACTOR**

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 EN 60068-1**

55/125/21      C0G, U2J, X7R

25/085/21      X5F, Y5U, Z5U

**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> GENERAL PURPOSE								
C (pF)	TOL. (%)	D DIAMETER INCH (mm)	T THICKNESS INCH (mm)	LS LEAD SPACE INCH (mm)	FIG.	WIRE SIZE		ORDERING CODE
		AWG	INCH (mm)					
<b>C0G (NPO)</b>								
10	± 20	0.250 (6.4)	0.156 (4.0)	0.250 (6.4)	2	24	0.020 (0.51)	561R5GAQ10
<b>U2J (N750)</b>								
33	± 20	0.290 (7.4)	0.156 (4.0)	0.250 (6.4)	2	24	0.020 (0.51)	561R5GAQ33
<b>X5F</b>								
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							
<b>X7R</b>								
1000	± 20	0.290 (7.4)	0.156 (4.0)	0.250 (6.4)	2	24	0.020 (0.51)	562R5GAD10
<b>Y5U</b>								
1000	+ 100 - 0	0.290 (7.4)	0.156 (4.0)	0.250 (6.4)	2	24	0.020 (0.51)	562R5HKD10
<b>Z5U</b>								
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								562R5GAD47
5000								562R5GAD50
6800								562R5GAD68
8200								562R5GAD82
0.010 μF								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							

**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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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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