

### Single-Layer Disc Capacitors High-Voltage 6 kV Series



#### KEY BENEFITS

- Complies with IEC 60384-8
- High reliability
- Compliant to RoHS Directive 2011/65/EU, and REACH Regulation EC 1907/2006
- Kinked (preferred) or straight leads
- Gold-colored epoxy resin coating, according to UL94V-0
- Small size
- Capacitance range: 2.0 pF to 150 pF
- Rated voltage: 6 kVdc
- Operating temperature:  $-55\text{ }^{\circ}\text{C}$  to  $+125\text{ }^{\circ}\text{C}$
- Dielectric strength: 150 % of V rated + 500 Vdc (9.5 kV)

#### APPLICATIONS

- High voltage dc applications
- High voltage pulse applications
- LCD backlight inverters

#### RESOURCES

- Datasheet: 6 kV Series - <http://www.vishay.com/doc?28542>
- For technical questions contact [CDC@vishay.com](mailto:CDC@vishay.com)



### Ceramic Disc Capacitors Class 1, 6 kV (DC)

QUICK REFERENCE DATA	
DESCRIPTION	CLASS 1 (C0G)
Voltage ( $V_{DC}$ )	6000
Min. Capacitance (pF)	2
Max. Capacitance (pF)	150
Mounting	Through hole



**RoHS**  
COMPLIANT

ORDERING INFORMATION, 6 kV <sub>DC</sub> , KINKED					
C (pF)	TOL. (%)	D <sub>MAX.</sub> (mm)	LEAD SPACING F (mm)	SH <sup>(1)</sup> (mm)	CLEAR TEXT CODE
					13 <sup>TH</sup> DIGIT: 3 = BULK
<b>CLASS 1 C0G</b>					
2	± 0.5	7.5	10.0	4.0	S209D29C0KU6.K0R
3					S309D29C0JU6.K0R
5					S509D25U2JU6.K0R
10	6.5	S100J25U2MU6.K0R			
12		S120J25U2MU6.K0R			
15		S150J29U2MU6.K0R			
18	7.5	S180J29U2MU6.K0R			
22		S220J29U2MU6.K0R			
27		S270J29U2MU6.K0R			
33	± 5	10.0			S330J39U2MU6.K0R
39					S390J39U2MU6.K0R
47					S470J39U2MU6.K0R
68	12.5	S680J49U2MU6.K0R			
82		S820J49U2MU6.K0R			
100		S101J49U2MU6.K0R			
120	15.0	S121J59U2MU6.K0R			
150		S151J59U2MU6.K0R			

**Notes**

<sup>(1)</sup> SH = Seated height

- Maximum thickness 6.0 mm
- Refer to outward kinked leads. Other styles available on request (straight or inline kinked leads).

PACKAGING					
PACKAGING TYPE	SIZE CODE	LEAD SPACE (mm)	VOLTAGE (V <sub>DC</sub> )	SPQ	BOX DIMENSIONS L x W x H (mm)
Bulk (long lead L ≥ 25.4 mm)	25 to 47	10.0	6 kV	1000	245 x 120 x 65
				1000	
	53 to 75			1000	
				500	

**Note**

- The capacitors are supplied in bulk packaging (cardboard boxes)

Capacitors - High Reliability

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