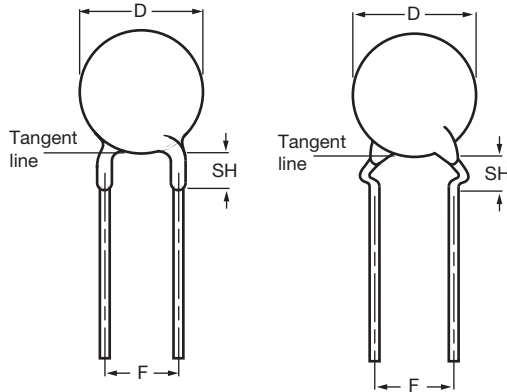


## Ceramic Disc Capacitors Class 1, 6 kV<sub>DC</sub>



Capacitors with 10 mm (0.40") lead spacing

**FEATURES**

- Low losses
- High stability
- High capacitance in small size
- Kinked (preferred) or straight leads
- Compliant to RoHS directive 2002/95/EC



**RoHS**  
COMPLIANT

**APPLICATIONS**

- DC high voltage
- Pulse high voltage
- LCD backlight inverter

**DESIGN**

The capacitors consist of a ceramic disc both sides of which are silver-plated. Connection leads are made of tinned copper having a diameter of 0.6 mm or 0.8 mm.

The capacitors may be supplied with kinked or straight leads with a lead spacing of 10 mm (0.40") and a lead length from 4 mm to 30 mm. The standard tolerance on capacitance is  $\pm 5\%$  or  $\pm 10\%$  for class 1 capacitors. Encapsulation is made of gold-colored epoxy-resin, flammable resistant in accordance with "UL 94 V-0".

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

**MARKING**

Straight and kinked leaded versions are gold colored. Marking indicates capacitance value and tolerance in accordance with "EIA 198", and voltage.

**OPERATING TEMPERATURE RANGE**

Class1, C0G; U2J, U2M, - 55 °C to + 125 °C

**TEMPERATURE COEFFICIENTS**

Class 1, C0G

**SECTIONAL SPECIFICATIONS**

Class 1, C0G, IEC 60384-8,  
EIA 198

**CLIMATIC CATEGORY**

Class 1, C0G; U2J, U2M, 55/125/21

**CAPACITANCE RANGE**

Class 1, at 1 MHz, 1.2  $V_{RMS}$ ; 2 pF to 150 pF

**RATED DC VOLTAGE**

6 kV

**DIELECTRIC STRENGTH**

According to IEC 384-8,  $1.5 \times U_R + 500 V_{DC}$  (9.5 kV<sub>DC</sub>)

**INSULATION RESISTANCE AT 500 V<sub>DC</sub>**

$\geq 10\,000\ M\Omega$

**TOLERANCE ON CAPACITANCE**

$\pm 5\%$ ;  $\pm 10\%$

Other tolerances available on request

**DISSIPATION FACTOR**

$C \leq 5\ pF$ , 0.55 % max.

$10\ pF \leq C < 33\ pF$ ,  $20 \times (150/C + 7) \times 10^{-4}$

$C \geq 33\ pF$ ; 0.20 % max.

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	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	
	1000				
	500				
	53 to 75				

**Note**

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



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