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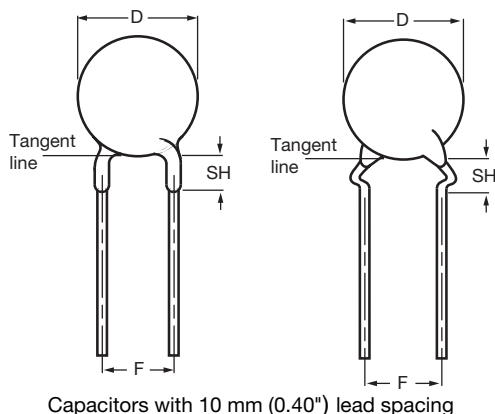
[Vishay/BCcomponents](#)
[S100J25U2MU6BK0R](#)

For any questions, you can email us directly:

sales@integrated-circuit.com



Ceramic Disc Capacitors Class 1, 6 kV_{DC}



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_{DC})

INSULATION RESISTANCE AT 500 V_{DC}

$\geq 10\,000 M\Omega$

TOLERANCE ON CAPACITANCE

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

Other tolerances available on request

DISSIPATION FACTOR

$C \leq 5\text{ pF}$, 0.55 % max.

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

$C \geq 33\text{ pF}$; 0.20 % max.

S Series



Vishay BCcomponents

Ceramic Disc Capacitors
Class 1, 6 kV_{DC}

ORDERING INFORMATION, 6 kV _{DC} , KINKED					
C (pF)	TOL. (%)	D _{MAX.} (mm)	LEAD SPACING F (mm)	SH ⁽¹⁾ (mm)	CLEAR TEXT CODE
					13 TH DIGIT: 3 = BULK
CLASS 1 C0G					
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

⁽¹⁾ 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 _{DC})	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				
53 to 75	500				

Note

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



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