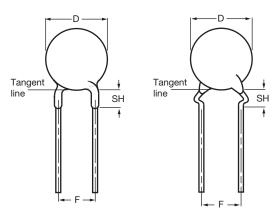
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Ceramic Disc Capacitors Class 1, 4 kV_{DC}



Capacitors with 7.5 mm (0.30") and 10 mm (0.40") lead spacing

QUICK REFERENCE DATA				
DESCRIPTION	CLASS 1 (COG)			
Voltage (V _{DC})	4000			
Min. Capacitance (pF)	2			
Max. Capacitance (pF)	100			
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

FEATURES

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

PVQ



ROHS

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 7.5 mm (0.30") or 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".

CAPACITANCE RANGE

Class 1, at 1 MHz, 1.2 V_{RMS}; 2 pF to 100 pF

RATED DC VOLTAGE

4 kV

DIELECTRIC STRENGTH

According to IEC 384-8, 1.5 x U_R + 500 V_{DC} (6.5 kV_{DC})

INSULATION RESISTANCE AT 500 V_{DC}

 $\geq 10~000~M\Omega$

TOLERANCE ON CAPACITANCE

± 5 %; ± 10 %

Other tolerances available on request

DISSIPATION FACTOR

 $C \le 5$ pF, 0.55 % max.; 10 pF $\le C < 33$ pF, 20 x (150/C + 7) x 10⁻⁴; $C \ge 33$ pF, 0.20 % max.

For technical questions, contact: CDC@vishay.com

Document Number: 28543

Revision: 07-Jan-10



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ORDERING INFORMATION, 4 kV _{DC} , KINKED							
С	TOL.	D	LEAD SPACING	SH ⁽¹⁾	CLEAR TEXT CODE		
(pF)	- MAA.		(mm)	13TH DIGIT: T = REEL; U = AMMO; 3 = BULK			
CLASS 1 COG							
2	± 0.5	6.5		4.0	S209D25C0KV6.K7R		
3					S309D25C0JV6.K7R		
5		7.5			S509D29C0HV6.K7R		
10		6.5			S100J25U2JV6.K7R		
12		7.5	7.5		S120J29U2JV6.K7R		
15		7.5			S150J29U2JV6.K7R		
18					S180J25U2MV6.K7R		
22		6.5 ± 5			S220J25U2MV6.K7R		
27	± 5				S270J25U2MV6.K7R		
33	7.5	7.5			S330J29U2MV6.K7R		
39		7.5			S390J29U2MV6.K7R		
47		8.0			S470J31U2MV6.K7R		
68		9.0			S680J35U2MV6.K7R		
100		10.0	10.0		S101J39U2MV6.K7R		

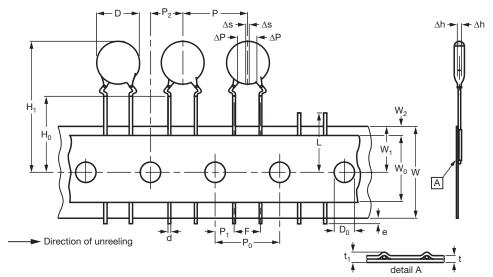
Notes

- (1) SH = Seated height
- Maximum thickness 5.0 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)		
				1000			
Bulk (long lead L ≥ 25.4 mm)	25 to 47	10.0	4 kV	1000	245 x 120 x 65		
				1000			
	53 to 75			500			

Note

• The capacitors are supplied in bulk packaging (cardboard boxes), in tape on reel or in ammopack



Kinked capacitors on tape, lead spacing 7.5 mm (0.30")

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Ceramic Disc Capacitors Class 1, 4 kV_{DC}

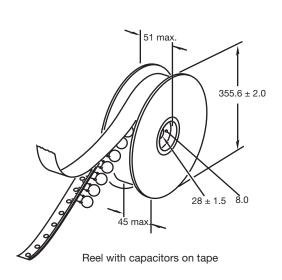


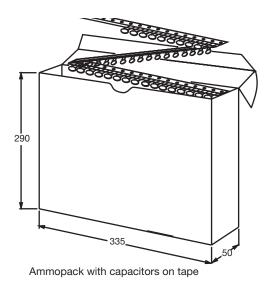
DIMENSIONS OF TAPE					
SYMBOL	2.2.4.	DIMENSIONS (mm)			
	PARAMETER	NOMINAL	TOLERANCE		
D	Body diameter	14.0 max.	-		
d	Lead diameter	0.6	± 0.05		
Р	Pitch between capacitors	15	± 1.0		
P ₀ ⁽¹⁾	Feed-hole pitch	15	± 0.3		
ΔΡ	Plane deviation	1.0 max.	-		
P ₁ ⁽²⁾	Feed-hole center to lead center	3.75	± 0.7		
P ₂ ⁽²⁾	Feed-hole center to component center	7.5	± 1.3		
F	Lead spacing	7.5	+ 0.6/- 0.4		
Δh	Component alignment	0	± 1.0		
W	Tape width	18.0	1.0 - 0.5		
W ₀	Hold-down tape width	5.0 min.	-		
W ₁	Hole position	9.0	0.75 - 0.5		
W ₂	Hold-down tape margin	3.0 max.	-		
H ₀	Height to seating plane	16.0	± 0.5		
H ₁	Maximum component height	40.0	-		
е	Lead end protrusion	1.0 max.	-		
L	Maximum length of snipped lead	11.0	-		
D ₀	Feed-hole diameter	4.0	± 0.2		
t	Total tape thickness	0.9 max.	-		
t ₁	Maximum thickness of tape and wires	1.5 max.	-		

Notes

 $^{(1)}$ Cumulative pitch error: $\pm \le 1$ mm/20 pitches

REEL AND TAPE DATA in millimeters





Document Number: 28543

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⁽²⁾ Obliquity maximum 3°



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Revision: 18-Jul-08

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