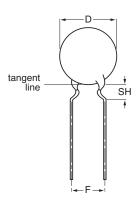
Vishay BCcomponents



Ceramic Disc Capacitors Class 1, 500 V (DC) Narrow Tolerance



Capacitors with 5 mm (0.20") lead spacing

TEMPERATURE COEFFICIENTS:

Class 1 NP0; N750

SECTIONAL SPECIFICATIONS:

Class 1 IEC 60 384-8,

EIA 198

CLIMATIC CATEGORY:

Class 1 55/125/21

OPERATING TEMPERATURE RANGE:

Class 1 - 55 to + 125 °C

MARKING

Marking indicates capacitance value and tolerance in accordance with "EIA 198".

FEATURES

- Low losses
- · High stability
- High capacitance in small size
- · Kinked (preferred) or straight leads
- Lead (Pb)-free available

(Pb)



APPLICATIONS

- Bypassing
- Coupling
- Resonant circuit

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.

The capacitors have inward kinked leads with a spacing of 5 mm (0.200") and a lead length from 4 to 30 mm. Encapsulation is made of phenolic resin.

CAPACITANCE RANGE:

Class 1, at 1 MHz, 1.2 V (RMS); 1.0 pF to 330 pF 1 kHz, 1 \pm 0.2 V (RMS) for capacitance values higher than 1000 pF

RATED DC VOLTAGE:

500 V

DIELECTRIC STRENGTH:

250 % of rated voltage

INSULATION RESISTANCE AT 500 V (DC):

 \geq 10 000 M Ω

TOLERANCE ON CAPACITANCE:

± 0.25 pF; ± 2 %

DISSIPATION FACTOR:

Class 1, C \leq 30 pF; \leq 20 x (10/C + 0.7) x 10^-4 maximum

Class 1, C > 30 pF; \leq 0.2 %

The capacitors meet the essential requirements of "EIA 198". Unless stated otherwise all electrical values apply at an ambient temperature of 25 ± 3 °C, at normal atmospheric conditions.

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ORDERING INFORMATION, CLASS 1, 500 V (DC), KINKED						
	TOL. (%)	D _{max} (mm)	LEAD SPACING F (mm)	SH ⁽²⁾ (mm)	CLEAR TEXT CODE	
C (pF)					13 th DIGIT: T = REEL; U = AMMO; 3 = BULK 16 th DIGIT: R = RoHS COMPLIANT	
CLASS 1 NP0						
1.0	± 0.25 pF			5.0 4.0	D109C20C0KL6.J5.	
1.5		5.0			D159C20C0KL6.J5.	
2.2					D229C20C0JL6.J5.	
3.3					D339C20C0JL6.J5.	
4.7					D479C20C0HL6.J5.	
6.8					D689C20C0HL6.J5.	
10					D100G20C0GL6.J5.	
15			3.0		D150G20C0GL6.J5.	
22	± 2 %	6.5			D220G25C0GL6.J5.	
33		0.5			D330G25C0GL6.J5.	
47		7.5			D470G29C0GL6.J5.	
68		8.5			D680G33C0GL6.J5.	
100		10.0			D101G39C0GL6.J5.	
150		12.0			D151G47C0GL6.J5.	

ORDERING	ORDERING INFORMATION, CLASS 1, 500 V (DC), KINKED					
					CLEAR TEXT CODE	
C (pF)	TOL. (%)	D _{max} (mm)	F (mm)	SH ⁽²⁾ (mm)	13 th DIGIT: T = REEL; U = AMMO; 3 = BULK 16 th DIGIT: R = RoHS COMPLIANT	
CLASS 1 N750	1					
6.8	± 0.25				D689C20U2JL6.J5.	
10		5.0		4.0	D100G20U2JL6.J5.	
15					D150G20U2JL6.J5.	
22					D220G20U2JL6.J5.	
33	. 0.9/	6.5	5.0		D330G25U2JL6.J5.	
47	± 2 %	7.5			D470G29U2JL6.J5.	
68		8.5			D680G33U2JL6.J5.	
100		10.0			D101G39U2JL6.J5.	
150		12.0			D151G47U2JL6.J5.	

Notes

- 1. Maximum thickness 3.5 mm.
- 2. SH = seated height.
- 3. Lead style codes refer to inward kinked leads. Other styles available on request.
- 4. Other capacitance values E12 series available.

PACKAGING	ACKAGING				
D _{max}	SIZE CODE	PACKAGING QUANTITIES			
(mm)	SIZE CODE	BULK	REEL	АММО	
5.0 (0.20")	20				
6.5 (0.25")	25				
7.5 (0.29")	29				
8.5 (0.33")	33	1000	2000	2000	
10.0 (0.39")	39				
11.0 (0.43")	43				
12.0 (0.47")	47				

Note

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

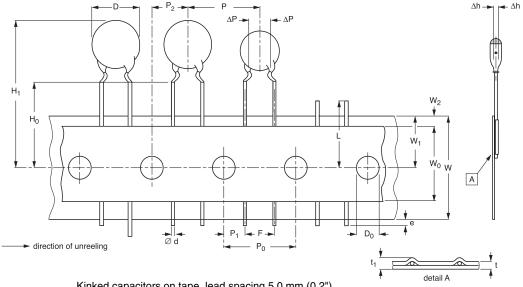
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HV 500 V Narrow Tolerance

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Ceramic Disc Capacitors Class 1, 500 V (DC) Narrow Tolerance





Kinked capacitors on tape, lead spacing 5.0 min (0.2)	be, lead spacing 5.0 mm (0.2")
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SYMBOL	PARAMETER	DIMENSIONS (mm)		
		NOMINAL	TOLERANCE	
D	body diameter	11.0 maximum	-	
d	lead diameter	0.6	± 0.05	
Р	pitch between capacitors	12.7	± 1.0	
P ₀	feed-hole pitch	12.7	± 0.3; note 1	
ΔΡ	plane deviation	1.0 maximum	-	
P ₁	feed-hole centre to lead centre	3.85	± 0.7; note 2	
P ₂	feed-hole centre to component centre	6.35	± 1.3; note 2	
F	lead spacing	5.0	+ 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 minimum	=	
W ₁	hole position	9.0	+ 0.75 - 0.5	
W ₂	hold-down tape margin	3.0 maximum	-	
H ₀	height to seating plane	16.0	± 0.5	
H ₁	maximum component height	32.0	-	
е	lead end protrusion	1.0 maximum	-	
L	maximum length of snipped lead	11.0	-	
D ₀	feed-hole diameter	4.0	± 0.2	
t	total tape thickness	0.9 maximum	-	
t ₁	maximum thickness of tape and wires	1.5 maximum	_	

- 1. Cumulative pitch error: $\pm \le 1$ mm/20 pitches.
- 2. Obliquity maximum 3°.

For technical questions, contact: CDC@vishay.com

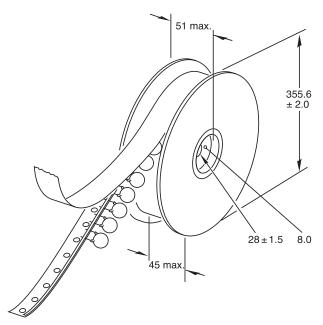
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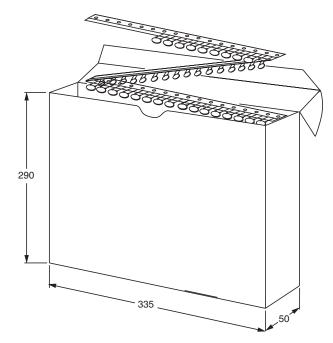
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REEL AND TAPE DATA in millimeters



Reel with capacitors on tape



Ammopack with capacitors on tape





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