

CERAMIC DISC CAPACITORS

H Series 500 V (DC) and 1 kV (DC)



Single Layer Ceramic Disc Capacitors



KEY BENEFITS

- High capacitance in small size
- Inside kinked leads (preferred)
- Compliant to RoHS Directive 2011/65/EU, and REACH Regulation EC 1907/2006

KEY SPECIFICATIONS

- Capacitance range: 1 nF to 4.7 nF Class 2 X7R, at 1 kHz, 1 ± 0.2 V (RMS)
- Dielectric strength: 250 % of rated voltage for 500 V; 200 % of rated voltage for 1 kV
- Insulation resistance: ≥ 10000 M Ω
- Acc. IEC 60384-9 and EIA 198
- Operating temperature: -55 °C to $+125$ °C
- Climatic category: 55/125/21
- Dissipation factor: ≤ 2.5 %

APPLICATIONS

- Bypassing
- Coupling
- SMPS

RESOURCES

- Datasheet: H Series 500 V (DC) and 1 kV (DC) - <http://www.vishay.com/doc?28540>
- For technical questions contact CDC@vishay.com

One of the World's Largest Manufacturers of
Discrete Semiconductors and Passive Components



Capacitors - Capacitance Range: 1 nF to 4.7 nF



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Ceramic Disc Capacitors

Class 2, 500 V, 1 kV (DC) General Purpose

QUICK REFERENCE DATA	
DESCRIPTION	CLASS 2 (X7R)
Voltage (V _{DC})	500, 1000
Min. Capacitance (pF)	1000
Max. Capacitance (pF)	4700
Mounting	Through hole

RoHS
COMPLIANT

ORDERING INFORMATION (PREFERRED TYPES), CLASS 2, 500 V _{DC} , KINKED					
C (pF)	TOL. (%)	D _{MAX.} (mm)	LEAD SPACING (mm)	SH ⁽¹⁾ (mm)	CLEAR TEXT CODE
					13 TH DIGIT: T = REEL; U = AMMO; 3 = BULK
CLASS 2 X7R					
1000	± 10	6.5	5.0	4.0	H102K25X7RL6.J5R
1500		7.5			H152K29X7RL6.J5R
2200		8.5			H222K33X7RL6.J5R
3300		10			H332K39X7RL6.J5R
4700		12	7.5		H472K47X7RL6.J7R

Notes

- ⁽¹⁾ SH = seated height
- Maximum thickness 4.0 mm
- Lead style codes refer to inward kinked leads. Other styles available on request

ORDERING INFORMATION (PREFERRED TYPES), CLASS 2, 1 kV _{DC} , KINKED					
C (pF)	TOL. (%)	D _{MAX.} (mm)	LEAD SPACING (mm)	SH ⁽¹⁾ (mm)	CLEAR TEXT CODE
					13 TH DIGIT: T = REEL; U = AMMO; 3 = BULK
CLASS 2 X7R					
1000	± 10	6.5	5.0	4.0	H102K25X7RN6.J5R
1500		8			H152K31X7RN6.J5R
2200		9			H222K35X7RN6.J5R
3300		10.5			H332K41X7RN6.J5R
4700		12	7.5		H472K47X7RN6.J7R

Notes

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PACKAGING				
D _{MAX.} (mm)	SIZE CODE	PACKAGING QUANTITIES		
		BULK	REEL	AMMO
5.0 (0.20")	20	1000	2000	2000
6.5 (0.25")	25			
7.5 (0.29")	29			
8.5 (0.33")	33			
10.0 (0.39")	39			
11.0 (0.43")	43			
12.0 (0.47")	47	500	-	-
13.5 (0.53")	53			
15.0 (0.59")	59			
17.5 (0.69")	69			

Note

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

Capacitors - Capacitance Range: 1 nF to 4.7 nF

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