HEU, HEE Series



Vishay Draloric

Ceramic Singlelayer DC Disc Capacitors, 5 kV_{DC} General Purpose



QUICK REFERENCE DATA				
DESCRIPTION	VALUE			
Ceramic Class	1	2		
Ceramic Dielectric	N750, Y5U			
Voltage (V _{DC})	5000			
Min. Capacitance (pF)	22	220		
Max. Capacitance (pF)	330	2200		
Mounting	Radial			

MARKING

Marking indicates, capacitance, tolerance code, and rated voltage.

OPERATING TEMPERATURE RANGE

-40 °C to +85 °C

TEMPERATURE CHARACTERISTICS

Class 1	N750 (U2J)
Class 2	Y5U

SECTIONAL SPECIFICATIONS

Climatic category (according to EN 60068-1): 40/085/21

FEATURES

- High capacitance in small sizes
- Low losses
- · Wide range of different lead styles
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



COMPLIANT

APPLICATIONS

- Lighting ballasts
- SMPS

DESIGN

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

The capacitors may be supplied with straight or kinked leads having a lead spacing of 12.5 mm.

Coating is made of blue colored flame retardant epoxy resin in accordance with UL 94 V-0.

CAPACITANCE RANGE

22 pF to 2.2 nF

RATED VOLTAGE

5 kV_{DC}

DIELECTRIC STRENGTH

7500 V_{DC}, 2 s Component test

INSULATION RESISTANCE AT 500 VDC

 \geq 10 000 M Ω (60 s)

TOLERANCE ON CAPACITANCE

± 10 %, ± 20 %

DISSIPATION FACTOR

Class 1: $\left(\frac{100 \text{ pF}}{\text{C}} + 0.7\right) \times 10^{-4} \text{ max.} (1 \text{ MHz})$ C < 30 pF: (C ≥ 30 pF: max. 0.1 % (1 MHz) Class 2: max. 2.5 % (1 kHz)

For technical questions, contact: slcap@vishay.com

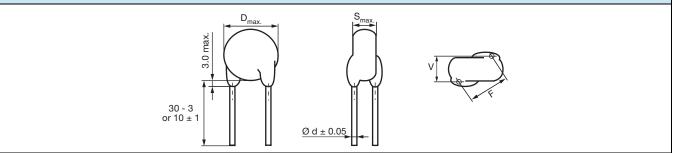
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DIMENSIONS in millimeters



ORDERING INFORMATION								
CAPACITANCE (pF)	TOLERANCE (%)	BODY DIAMETER D _{max.} (mm)	BODY THICKNESS S _{max.} (mm)	LEAD SPACING ⁽¹⁾ F (mm) ± 1 mm	LEAD DIAMETER ⁽¹⁾ d (mm) ± 0.05 mm	WIDTH ⁽¹⁾ V (mm) ± 0.5 mm	ORDERING CODE MISSING DIGITS SEE ORDERING CODE BELOW	
N750 (U2J)								
22		7.0					HEU220KBE###KR	
33		9.3	4.8		0.6	2.2	HEU330KBE###KR	
47		9.5					HEU470KBE###KR	
68			11.8				HEU680KBE###KR	
82	± 10	11.8		12.5	0.8	1.9	HEU820KBE###KR	
100							HEU101KBE###KR	
150		14.4	5.2				HEU151KBE###KR	
220		16.3					HEU221KBE###KR	
330		19.5				HEU331KBE###KR		
Y5U (2E3)								
220		7.0		5.0 12.5	0.6		HEE221#BE###KR	
330	± 20 ⁽²⁾	9.0			0.8	3.8	HEE331#BE###KR	
680		5.0	FO				HEE681#BE###KR	
1000		11.0	5.0				HEE102#BE###KR	
1500		13.0					HEE152#BE###KR	
2200		15.0					HEE222#BE###KR	

Notes

⁽¹⁾ Standard lead configuration, other lead spacing and diameter available on request

 $^{(2)}$ ± 10 % available on request

ORDERING CODE							
#	7 th digit	Capacitance tolerance		± 10 % = K, ± 20 % = M			
###	10 th to 12 th digit	Lead configuration		see "General Information"			
Example	HEE	222	м	BE	EJ0	К	R
	Series	Capacitance value	Tolerance code	Voltage code	Lead configuration	Internal code	RoHS compliant

MARKING		
HEU 22 pF to 100 pF HEE 220 pF to 1.0 nF	HEU 150 pF to 330 pF HEE 1.5 nF to 2.2 nF	

RELATED DOCUMENTS		
General Information	www.vishay.com/doc?22001	
Revision: 18-Sep-14	2	Document Number: 22155

Revision: 18-Sep-14

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