



Distributor of Vishay/BCcomponents: Excellent Integrated System Limited

Datasheet of HEE102MBEEJ0KR - CAP CER 1000PF 5KV RADIAL

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www.vishay.com

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



RoHS
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 V_{DC}

≥ 10 000 MΩ (60 s)

TOLERANCE ON CAPACITANCE

± 10 %, ± 20 %

DISSIPATION FACTOR

Class 1:

C < 30 pF: $\left(\frac{100 \text{ pF}}{C} + 0.7\right) \times 10^{-4}$ max. (1 MHz)

C ≥ 30 pF: max. 0.1 % (1 MHz)

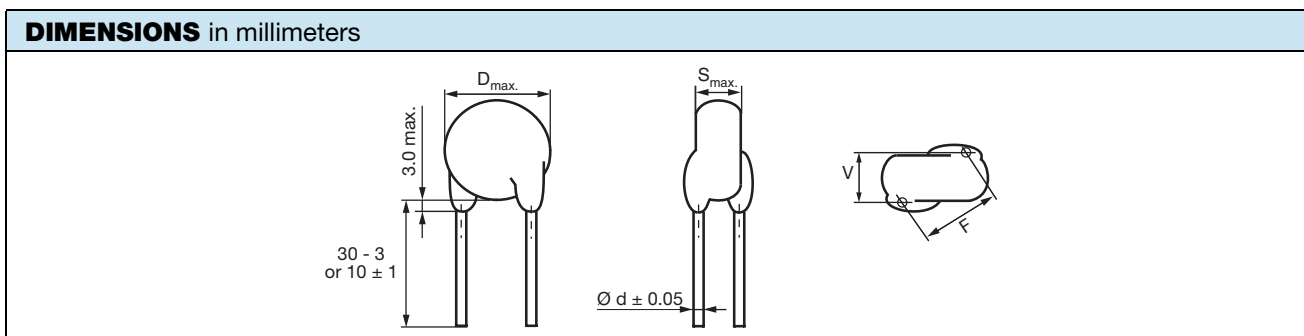
Class 2: max. 2.5 % (1 kHz)



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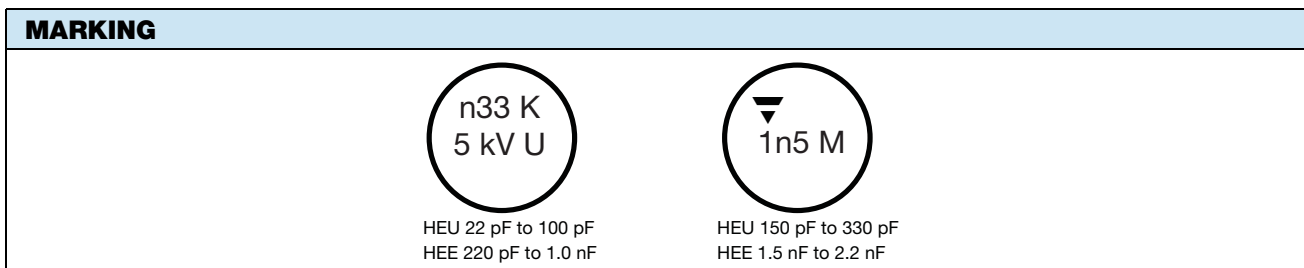
ORDERING INFORMATION							
CAPACITANCE (pF)	TOLERANCE (%)	BODY DIAMETER D _{max.} (mm)	BODY THICKNESS S _{max.} (mm)	LEAD SPACING ⁽¹⁾ F (mm) ± 1 mm	LEAD DIAMETER ⁽¹⁾ d (mm) ± 0.05 mm	WIDTH ⁽¹⁾ V (mm) ± 0.5 mm	ORDERING CODE MISSING DIGITS SEE ORDERING CODE BELOW
N750 (U2J)							
22	± 10	7.0	4.8	12.5	0.6	2.2	HEU220KBE###KR
33		9.3					HEU330KBE###KR
47		9.3					HEU470KBE###KR
68		11.8	5.2		0.8	1.9	HEU680KBE###KR
82							HEU820KBE###KR
100							HEU101KBE###KR
150							HEU151KBE###KR
220							HEU221KBE###KR
330							HEU331KBE###KR
Y5U (2E3)							
220	± 20 ⁽²⁾	7.0	5.0	12.5	0.6	3.8	HEE221#BE###KR
330		9.0					HEE331#BE###KR
680		11.0			HEE681#BE###KR		
1000		13.0			HEE102#BE###KR		
1500		15.0			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	M	BE	EJ0	K	R
	Series	Capacitance value	Tolerance code	Voltage code	Lead configuration	Internal code	RoHS compliant



RELATED DOCUMENTS	
General Information	www.vishay.com/doc?22001



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