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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

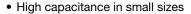
TEMPERATURE CHARACTERISTICS

Class 1 N750 (U2J) Class 2 Y5U

SECTIONAL SPECIFICATIONS

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

FEATURES





Low losses

· Wide range of different lead styles

RoHS COMPLIANT

 Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

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 %

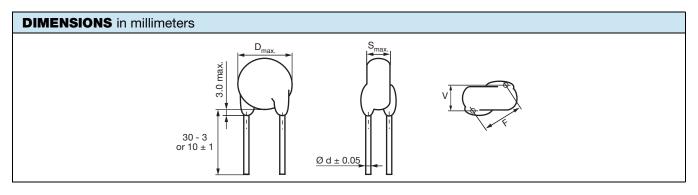
DISSIPATION FACTOR

Class 1:

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

C ≥ 30 pF: max. 0.1 % (1 MHz) Class 2: max. 2.5 % (1 kHz)



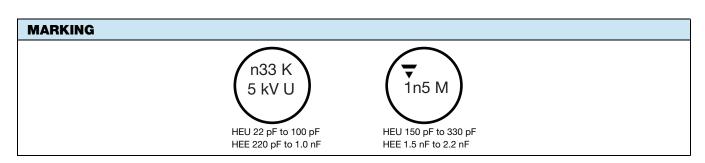


ORDERING INFORMATION							
CAPACITANCE (pF)	TOLERANCE (%)	BODY DIAMETER D _{max.} (mm)	BODY THICKNESS S _{max.} (mm)	LEAD SPACING ⁽¹⁾ F (mm) ± 1 mm	LEAD DIAMETER ⁽¹⁾ d (mm) ± 0.05 mm	WIDTH ⁽¹⁾ V (mm) ± 0.5 mm	ORDERING CODE MISSING DIGITS SEE ORDERING CODE BELOW
N750 (U2J)							
22		7.0		12.5	0.6	2.2	HEU220KBE###KR
33		9.3	4.8				HEU330KBE###KR
47		9.3					HEU470KBE###KR
68					0.8	1.9	HEU680KBE###KR
82	± 10	11.8					HEU820KBE###KR
100			5 0				HEU101KBE###KR
150		14.4	5.2				HEU151KBE###KR
220		16.3					HEU221KBE###KR
330		19.5					HEU331KBE###KR
Y5U (2E3)							
220	± 20 ⁽²⁾	7.0		12.5	0.6	3.8	HEE221#BE###KR
330		0.0			0.8		HEE331#BE###KR
680		9.0	F 0				HEE681#BE###KR
1000		11.0	5.0				HEE102#BE###KR
1500		13.0	1				HEE152#BE###KR
2200		15.0	1				HEE222#BE###KR

Notes

^{(2) ± 10 %} available on request

ORDERING CODE							
#	7 th digit	Capacitano	e tolerance	± 10 % = K, ± 2	0 % = M		
###	10 th to 12 th digit	Lead config	guration	see "General Inf	ormation"		
Example	HEE	222	М	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

Revision: 18-Sep-14 2 Document Number: 22155

 $^{^{(1)}}$ Standard lead configuration, other lead spacing and diameter available on request



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