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Vishay Draloric

Ceramic Singlelayer DC Disc Capacitors, 2 kV_{DC} General Purpose



QUICK REFERENCE DATA					
DESCRIPTION	VALUE				
Ceramic Class	1	2			
Ceramic Dielectric	N750, Y5T, Y5U, Y5V				
Voltage (V _{DC})	2000				
Min. Capacitance (pF)	10	56			
Max. Capacitance (pF)	470	22 000			
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 Y5T, Y5U, Y5V

SECTIONAL SPECIFICATIONS

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

FEATURES

• High capacitance in small sizes



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



RoHS

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 7.5 mm.

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

CAPACITANCE RANGE

10 pF to 22 nF

RATED VOLTAGE

 $2 kV_{DC}$

DIELECTRIC STRENGTH

3000 V_{DC}, 2 s Component test

INSULATION RESISTANCE AT 500 V_{DC}

 \geq 10 000 M Ω (60 s)

TOLERANCE ON CAPACITANCE

± 10 %, ± 20 %, - 20 % / + 50 %

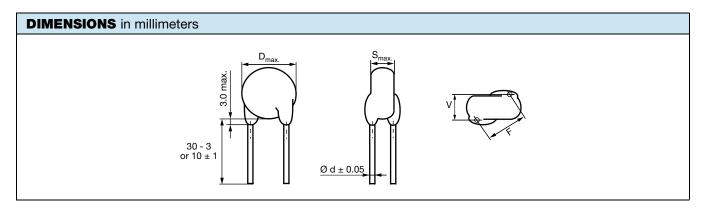
DISSIPATION FACTOR

Class 1:

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

 $C \ge 30 \text{ pF}$: max. 0.1 % (1 MHz) Class 2: max. 2.5 % (1 kHz)

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ORDERING I	NFORMATIO	N					
		BODY	BODY	LEAD	LEAD	WIDTH (1)	ORDERING CODE
CAPACITANCE (pF)			BODY THICKNESS S _{max.} (mm)	SPACING ⁽¹⁾ F (mm) ± 1 mm	DIAMETER ⁽¹⁾ d (mm) ± 0.05 mm	V (mm) ± 0.5 mm	MISSING DIGITS SEE ORDERING CODE BELOW
N750 (U2J)							
10		7.0	4.0		0.6	1.2	HBU100KBB###KR
15							HBU150KBB###KR
22							HBU220KBB###KR
33						1.3	HBU330KBB###KR
47						1.4	HBU470KBB###KR
68	± 10	8.0					HBU680KBB###KR
82	± 10	6.0		7.5			HBU820KBB###KR
100		10.0	4.2				HBU101KBB###KR
150		10.0					HBU151KBB###KR
220		12.0					HBU221KBB###KR
330	- - -	15.0					HBU331KBB###KR
470		17.0					HBU471KBB###KR
Y5T (2D3)							
56		7.0	3.0	7.5	0.6	1.4	HBZ560#BB###KR
68							HBZ680#BB###KR
82							HBZ820#BB###KR
100							HBZ101#BB###KR
150							HBZ151#BB###KR
220							HBZ221#BB###KR
330	± 10, ± 20						HBZ331#BB###KR
470	± 10, ± 20						HBZ471#BB###KR
680		9.0					HBZ681#BB###KR
1000							HBZ102#BB###KR
1500		11.0					HBZ152#BB###KR
2200		13.0					HBZ222#BB###KR
3300		15.0					HBZ332#BB###KR
4700		17.0					HBZ472#BB###KR



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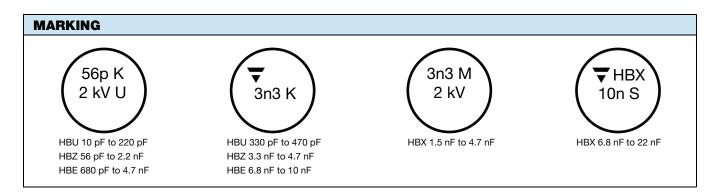
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ORDERING INFORMATION								
		BODY	BODY	LEAD	LEAD	WIDTH (1)	ORDERING CODE	
CAPACITANCE (pF)	TOLERANCE (%)	DIAMETER D _{max.} (mm)	BODY THICKNESS S _{max.} (mm)	SPACING ⁽¹⁾ F (mm) ± 1 mm	DIAMETER ⁽¹⁾ d (mm) ± 0.05 mm	V (mm) ± 0.5 mm	MISSING DIGITS SEE ORDERING CODE BELOW	
Y5U (2E3)								
680		7.0			0.6	1.4	HBE681MBB###KR	
1000			3.0	7.5			HBE102MBB###KR	
1500		9.0					HBE152MBB###KR	
2200	± 20						HBE222MBB###KR	
3300		11.0					HBE332MBB###KR	
4700		13.0					HBE472MBB###KR	
6800		15.0					HBE682MBB###KR	
10 000		17.0					HBE103MBB###KR	
Y5V (2F3)	Y5V (2F3)							
1500		7.0			0.6	1.2	HBX152#BB###KR	
2200		9.0		7.5			HBX222#BB###KR	
3300	- 20 / + 50 ⁽²⁾						HBX332#BB###KR	
4700		11.0	3.0				HBX472#BB###KR	
6800			3.0				HBX682#BB###KR	
10 000		15.0					HBX103#BB###KR	
15 000		17.0					HBX153#BB###KR	
22 000		20.0	i				HBX223#BB###KR	

Notes

- (1) Standard lead configuration, other lead spacing and diameter available on request
- (2) ± 20 % available on request

ORDERING CODE							
#	7 th digit	Capacitano	Capacitance tolerance		± 10 % = K, ± 20 % = M, - 20 % / + 50 % = S		
###	10 th to 12 th digit	Lead configuration		see "General Information"			
Example	нвх	223	s	ВВ	CRU	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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