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Vishay Draloric

Ceramic Singlelayer DC Disc Capacitors, 3 kV_{DC} General Purpose



QUICK REFERENCE DATA					
DESCRIPTION	VALUE				
Ceramic Class 1 2					
Ceramic Dielectric	N750, Y5T, Y5U				
Voltage (V _{DC})	3000				
Min. Capacitance (pF)	10	68			
Max. Capacitance (pF)	330	10 000			
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 Y5S, Y5U, Y5V

SECTIONAL SPECIFICATIONS

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

FEATURES

• High capacitance in small sizes



- 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 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

 $3 kV_{DC}$

DIELECTRIC STRENGTH

5000 V_{DC}, 2 s Component test

INSULATION RESISTANCE AT 500 VDC

 \geq 10 000 M Ω (60 s)

TOLERANCE ON CAPACITANCE

± 10 %, ± 20 %

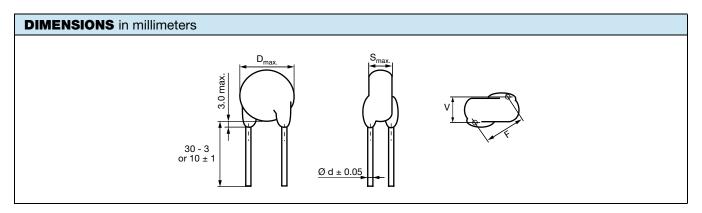
DISSIPATION FACTOR

Class 1:

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

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

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ORDERING INFORMATION								
		BODY	BODY	LEAD	LEAD	WIDTH (1)	ORDERING CODE	
CAPACITANCE (pF)	TOLERANCE (%)	DIAMETER D _{max.} (mm)	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	1.3	HCU100KBC###KR	
15							HCU150KBC###KR	
22							HCU220KBC###KR	
33							HCU330KBC###KR	
47		8.0		10.0		1.4	HCU470KBC###KR	
68	± 10	9.0					HCU680KBC###KR	
82		10.0				1.6	HCU820KBC###KR	
100		10.0					HCU101KBC###KR	
150		11.0	4.4		0.8		HCU151KBC###KR	
220		15.0					HCU221KBC###KR	
330		17.0					HCU331KBC###KR	
Y5T (2D3)	Y5T (2D3)							
68		7.0		10.0	0.6	2.0	HCZ680#BC###KR	
82							HCZ820#BC###KR	
100							HCZ101#BC###KR	
120							HCZ121#BC###KR	
150							HCZ151#BC###KR	
180			4.0				HCZ181#BC###KR	
220		8.0					HCZ221#BC###KR	
330							HCZ331#BC###KR	
470	± 10, ± 20	10.0					HCZ471#BC###KR	
680							HCZ681#BC###KR	
1000		11.0					HCZ102#BC###KR	
1200		15.0					HCZ122#BC###KR	
1500							HCZ152#BC###KR	
2200		17.0					HCZ222#BC###KR	
3300		21.0					HCZ332#BC###KR	
4700							HCZ472#BC###KR	
6800		25.0					HCZ682#BC###KR	



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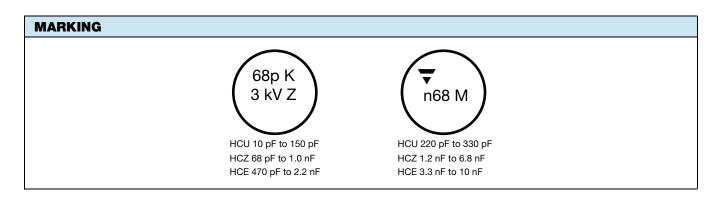
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ORDERING INFORMATION							
		BODY	5051/	LEAD	LEAD	WIDTH (1)	ORDERING CODE
CAPACITANCE (pF)			BODY THICKNESS S _{max.} (mm)	SPACING ⁽¹⁾ F (mm) ± 1 mm	DIAMETER ⁽¹⁾ d (mm) ± 0.05 mm	V (mm) ± 0.5 mm	MISSING DIGITS SEE ORDERING CODE BELOW
Y5U (2E3)							
470	± 20	7.0			0.6	2.0	HCE471MBC###KR
680		8.0					HCE681MBC###KR
1000		9.0					HCE102MBC###KR
1500		11.0					HCE152MBC###KR
2200		11.0	4.0	10.0			HCE222MBC###KR
3300		15.0				2.2	HCE332MBC###KR
4700		17.0					HCE472MBC###KR
6800		21.0					HCE682MBC###KR
10 000		25.0				2.5	HCE103MBC###KR

Note

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

ORDERING CODE							
#	7 th digit	Capacitance tolerance		± 10 % = K, ± 2	0 % = M		
###	10 th to 12 th digit	Lead confiç	Lead configuration		see "General Information"		
Example	HCE	152	М	ВС	DD0	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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