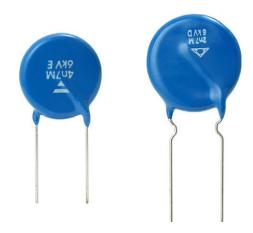


www.vishay.com

Vishay Draloric

Ceramic Singlelayer DC Disc Capacitors, 6 kV_{DC} General Purpose



QUICK REFERENCE DATA					
DESCRIPTION	VALUE				
Ceramic Class	1 2				
Ceramic Dielectric	N750, Y5T, Y5U				
Voltage (V _{DC})	6000				
Min. Capacitance (pF)	10	56			
Max. Capacitance (pF)	330	6800			
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

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
- e3)
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

RoHS COMPLIAN

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

10 pF to 6.8 nF

RATED VOLTAGE

6 kV_{DC}

DIELECTRIC STRENGTH

9000 V_{DC}, 2 s Component test

INSULATION RESISTANCE AT 500 VDC

 \geq 10 000 M Ω (60 s)

TOLERANCE ON CAPACITANCE

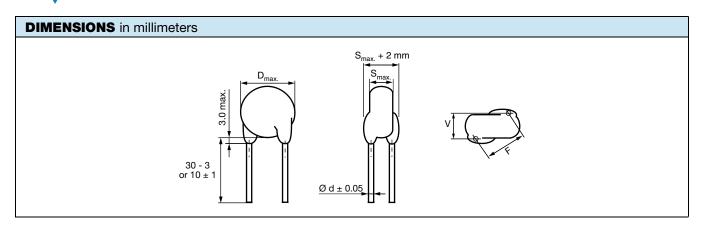
± 10 %, ± 20 %

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) www.vishay.com Vishay Draloric



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)								
10			4.8		0.6	2.2	HFU100KBF###KR	
15		7.0					HFU150KBF###KR	
22							HFU220KBF###KR	
33		9.5					HFU330KBF###KR	
47							HFU470KBF###KR	
68	± 10			12.5		2.4	HFU680KBF###KR	
82		12.0					HFU820KBF###KR	
100			5.2				HFU101KBF###KR	
150		15.0	5.2				HFU151KBF###KR	
220		17.0					HFU221KBF###KR	
330	20.0						HFU331KBF###KR	
Y5T (2E3)								
56						3.5	HFZ560#BF###KR	
68		7.0		0.1			HFZ680#BF###KR	
82							HFZ820#BF###KR	
100		8.0					HFZ101#BF###KR	
120							HFZ121#BF###KR	
150							HFZ151#BF###KR	
180							HFZ181#BF###KR	
220		10.0			0.6		HFZ221#BF###KR	
270							HFZ271#BF###KR	
330							HFZ331#BF###KR	
390	± 20 ⁽²⁾	12.0	5.0	5.0 12.5			HFZ391#BF###KR	
470		12.0					HFZ471#BF###KR	
560		13.0					HFZ561#BF###KR	
680		15.0					HFZ681#BF###KR	
820							HFZ821#BF###KR	
1000		17.0					HFZ102#BF###KR	
1200		19.0					HFZ122#BF###KR	
1500		21.0			0.8		HFZ152#BF###KR	
1800							HFZ182#BF###KR	
2200		05.0					HFZ222#BF###KR	
2700		25.0					HFZ272#BF###KR	



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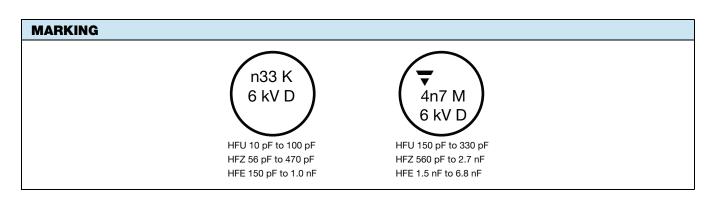
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ORDERING INFORMATION							
		BODY DIAMETER D _{max.} (mm)	BODY THICKNESS S _{max.} (mm)	LEAD SPACING ⁽¹⁾ F (mm) ± 1 mm	LEAD DIAMETER ⁽¹⁾ d (mm) ± 0.05 mm	WIDTH ⁽¹⁾ V (mm) ± 0.5 mm	ORDERING CODE
CAPACITANCE (pF)	TOLERANCE (%)						MISSING DIGITS SEE ORDERING CODE BELOW
Y5U (2E3)							
150		7.0			0.6	3.5	HFE151MBF###KR
220		7.0	5.0	12.5			HFE221MBF###KR
330		9.0					HFE331MBF###KR
470							HFE471MBF###KR
680							HFE681MBF###KR
1000	± 20	11.0					HFE102MBF###KR
1500		13.0					HFE152MBF###KR
2200		15.0	5.5				HFE222MBF###KR
3300		21.0	5.5		0.8		HFE332MBF###KR
4700		21.0					HFE472MBF###KR
6800		23.0					HFE682MBF###KR

Notes

- (1) Standard lead configuration, other lead spacing and diameter available on request
- (2) ± 10 % available on request

ORDERING CODE							
#	7 th digit	Capacitano	Capacitance tolerance		± 10 % = K, ± 20 % = M		
###	10 th to 12 th digit	Lead confiç	Lead configuration		see "General Information"		
Example	HFE	682	М	BF	EF0	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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