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Vishay Draloric

Ceramic Singlelayer DC Disc Capacitors, 8 kV_{DC} General Purpose



QUICK REFERENCE DATA			
DESCRIPTION	VALUE		
Ceramic Class	2		
Ceramic Dielectric	Y5T		
Voltage (V _{DC})	8000		
Min. Capacitance (pF)	100		
Max. Capacitance (pF)	2200		
Mounting	Radial		

MARKING

Marking indicates, capacitance, tolerance code, and rated voltage.

OPERATING TEMPERATURE RANGE

-40 °C to +85 °C

TEMPERATURE CHARACTERISTICS

Y5T

SECTIONAL SPECIFICATIONS

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

FEATURES





Low losses

• Wide range of different lead styles

e3)

 Material categorization: for definitions of compliance please see www.vishav.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

100 pF to 2.2 nF

RATED VOLTAGE

 8 kV_{DC}

DIELECTRIC STRENGTH

12 000 V_{DC}, 2 s Component test

INSULATION RESISTANCE AT 500 V_{DC}

 \geq 10 000 M Ω (60 s)

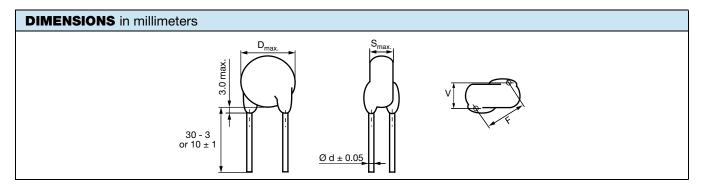
TOLERANCE ON CAPACITANCE

± 20 % (± 10 % available on request)

DISSIPATION FACTOR

Max. 2.0 % (1 kHz)

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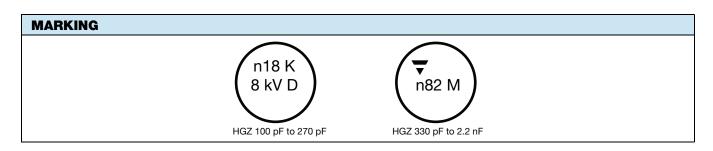
ORDERING INFORMATION							
CAPACITANCE (pF)	TOLERANCE (%)	BODY DIAMETER D _{max.} (mm)	BODY THICKNESS S _{max.} (mm)	LEAD SPACING ⁽¹⁾ F (mm) ± 1 mm	LEAD DIAMETER ⁽¹⁾ d (mm) ± 0.05 mm	WIDTH ⁽¹⁾ V (mm) ± 0.5 mm	ORDERING CODE MISSING DIGITS SEE ORDERING CODE BELOW
Y5T (2D3)							
100							HGZ101#BP###KR
120		9.0					HGZ121#BP###KR
150							HGZ151#BP###KR
180							HGZ181#BP###KR
220		11.0					HGZ221#BP###KR
270							HGZ271#BP###KR
330		13.0					HGZ331#BP###KR
390		10.0					HGZ391#BP###KR
470	± 20 ⁽²⁾	14.0	8.3	12.5	0.8	4.0	HGZ471#BP###KR
560		16.0					HGZ561#BP###KR
680		10.0					HGZ681#BP###KR
820		18.0					HGZ821#BP###KR
1000		10.0					HGZ102#BP###KR
1200		21.0					HGZ122#BP###KR
1500		21.0					HGZ152#BP###KR
1800		24.0					HGZ182#BP###KR
2200		24.0					HGZ222#BP###KR

Notes

 $\stackrel{\mbox{\scriptsize (1)}}{\dots}$ 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	0 % = M		
###	10 th to 12 th digit	Lead configuration		see "General Information"			
Example	HGZ	821	М	ВР	ERY	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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