HGZ Series



Vishay Draloric

$\begin{array}{c} \text{Ceramic Singlelayer DC Disc Capacitors,} \\ 8 \text{ kV}_{\text{DC}} \text{ General Purpose} \end{array}$



QUICK REFERENCE DATA			
DESCRIPTION	VALUE		
Ceramic Class	2		
Ceramic Dielectric	Y5T		
Voltage (V _{AC})	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

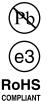
Y5T

SECTIONAL SPECIFICATIONS

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

FEATURES

- High capacitance in small sizes
- Low losses
- Wide range of different leadstyles
- Material categorization:



For definitions of compliance please see www.vishav.com/doc?99912

APPLICATIONS

- Lighting ballasts
- SMPS

DESIGN

The capacitors consist of ceramic disc both sides of which are silver plated. 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 VDC

 \geq 10 000 M Ω (60 s)

TOLERANCE ON CAPACITANCE

± 20 % (± 10 % available on request)

DISSIPATION FACTOR

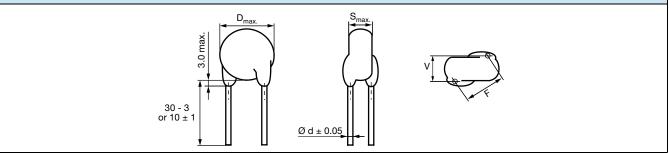
Max. 2.0 % (1 kHz)



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DIMENSIONS in millimeters



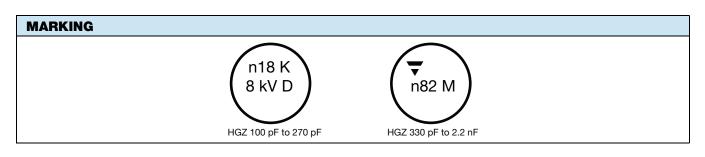
ORDERING INFORMATION							
CAPACITANCE (pF)	TOLERANCE (%)	BODY DIAMETER D _{max.} (mm)	BODY THICKNESS S _{max.} (mm)	LEAD SPACING ⁽¹⁾ F (mm) ± 1 mm	LEAD DIAMETER ⁽¹⁾ d (mm) ± 0.05 mm	WIDTH ⁽¹⁾ V (mm) ± 0.5 mm	ORDERING CODE MISSING DIGITS SEE ORDERING CODE BELOW
Y5T (2D3)							
100							HGZ101.BPKR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

Notes

 $\stackrel{(1)}{\ldots}$ 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	BP	ERY	к	R
	Series	Capacitance value	Tolerance code	Voltage code	Lead configuration	Internal code	RoHS compliant



RELATED DOCUMENTS	
General Information	www.vishay.com/doc?22001
Revision: 12-Sep-13	2 Document Number: 22157

Revision: 12-Sep-13

For technical questions, contact: slcap@vishay.com

Document Number: 22157

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Vishay

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