

www.vishay.com

Vishay Draloric

# Ceramic Singlelayer DC Disc Capacitors, 8 kV<sub>DC</sub> General Purpose



QUICK REFERENCE DATA			
DESCRIPTION	VALUE		
Ceramic Class	2		
Ceramic Dielectric	Y5T		
Voltage (V <sub>DC</sub> )	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**

 $8 \text{ kV}_{DC}$ 

## **DIELECTRIC STRENGTH**

12 000 V<sub>DC</sub>, 2 s Component test

## INSULATION RESISTANCE AT 500 V<sub>DC</sub>

 $\geq$  10 000 M $\Omega$  (60 s)

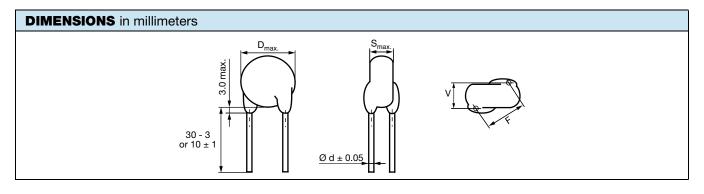
# **TOLERANCE ON CAPACITANCE**

± 20 % (± 10 % available on request)

## **DISSIPATION FACTOR**

Max. 2.0 % (1 kHz)

Vishay Draloric



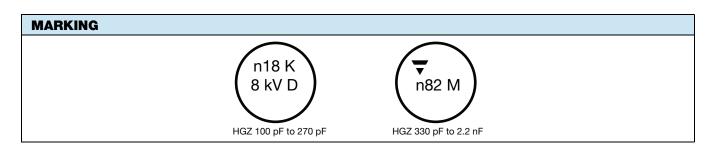
ORDERING INFORMATION							
CAPACITANCE (pF)	TOLERANCE (%)	BODY DIAMETER D <sub>max.</sub> (mm)	BODY THICKNESS S <sub>max.</sub> (mm)	LEAD SPACING <sup>(1)</sup> F (mm) ± 1 mm	LEAD DIAMETER <sup>(1)</sup> d (mm) ± 0.05 mm	WIDTH <sup>(1)</sup> V (mm) ± 0.5 mm	ORDERING CODE MISSING DIGITS SEE ORDERING 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 <sup>(2)</sup>	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 <sup>th</sup> digit	Capacitance tolerance		± 10 % = K, ± 20	0 % = M		
###	10 <sup>th</sup> to 12 <sup>th</sup> 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



# **Legal Disclaimer Notice**

Vishay

# **Disclaimer**

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.