HIK Series



Vishay Draloric

High Voltage Ceramic Singlelayer DC Disc Capacitors, Class 2, Low Loss (0.5 %), 15 kV_{DC}



QUICK REFERENCE DATA				
DESCRIPTION	VALUE			
Ceramic Class	2			
Ceramic Dielectric	Y5T			
Voltage (V _{DC})	15 000			
Min. Capacitance (pF)	100			
Max. Capacitance (pF)	1500			
Mounting	Radial			

MARKING

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

OPERATING TEMPERATURE RANGE

-40 °C to +125 °C

TEMPERATURE CHARACTERISTICS

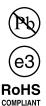
Y5T (2D3)

SECTIONAL SPECIFICATIONS

Climatic category (according to EN 60068-1): 40/125/21

FEATURES

- · High capacitance in small sizes
- Low losses
- · Wide range of different lead styles
- Material categorization:



for definitions of compliance please see www.vishay.com/doc?99912

APPLICATIONS

In electronic circuits where low losses and high capacitance per volume are essential, for example:

- SMPS
- DC and pulse high voltage
- X-ray and laser equipment

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 0.8 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 1.5 nF

RATED VOLTAGE

15 kV_{DC}

DIELECTRIC STRENGTH

22 500 V_{DC}, 2 s Component test

INSULATION RESISTANCE AT 500 VDC

 \geq 100 000 M Ω (60 s)

TOLERANCE ON CAPACITANCE

± 20 % (± 10 % available on request)

DISSIPATION FACTOR

Max. 0.5 % (1 kHz)

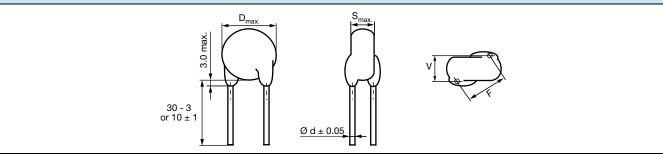
1 For technical questions, contact: slcap@vishay.com Document Number: 22158



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DIMENSIONS in millimeters



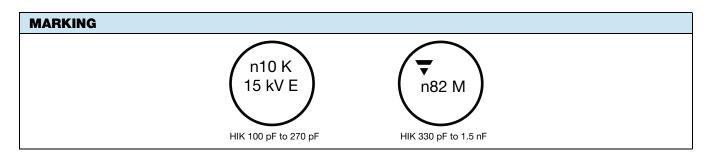
ORDERING INFORMATION							
CAPACITANCE (pF)	TOLERANCE (%)	BODY DIAMETER D _{max.} (mm)	BODY THICKNESS S _{max.} (mm)	LEAD SPACING ⁽¹⁾ F (mm) ± 1 mm	LEAD DIAMETER ⁽¹⁾ d (mm) ± 0.05 mm	WIDTH ⁽¹⁾ V (mm) ± 0.5 mm	ORDERING CODE
							MISSING DIGITS SEE ORDERING CODE BELOW
100	± 20 ⁽²⁾	8.0			0.8	5.0	HIK101#BJ###KR
120		9.0		12.5			HIK121#BJ###KR
150							HIK151#BJ###KR
180		10.0	8.0			5.2	HIK181#BJ###KR
220							HIK221#BJ###KR
270		11.0					HIK271#BJ###KR
330		11.5					HIK331#BJ###KR
390		13.0					HIK391#BJ###KR
470		15.0	8.4			5.4	HIK471#BJ###KR
560		15.0					HIK561#BJ###KR
680		16.0					HIK681#BJ###KR
820		18.5				5.6	HIK821#BJ###KR
1000		20.0					HIK102#BJ###KR
1200		04.0				5.8	HIK122#BJ###KR
1500			24.0				5.0

Notes

⁽¹⁾ 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 % = M			
###	10 th to 12 th digit	Lead configuration		see "General Infe	ormation"		
Example	нік	152	м	BJ	EH0	К	R
	Series	Capacitance value	Tolerance code	Voltage code	Lead configuration	Internal code	RoHS compliant



Revision: 16-Feb-2021

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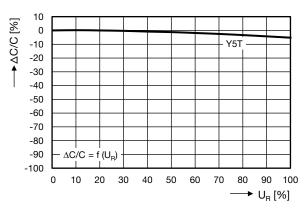
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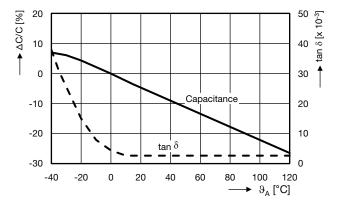


Vishay Draloric

CAPACITANCE CHANGE VS. VOLTAGE (Typical)



CAPACITANCE CHANGE AND DISSIPATION FACTOR VS. TEMPERATURE (Typical)



RELATED DOCUMENTS	
General Information	www.vishay.com/doc?22001

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