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www.vishay.com

Vishay Draloric

Ceramic Singlelayer DC Disc Capacitors, 1 kV_{DC} General Purpose



QUICK REFERENCE DATA					
DESCRIPTION	VALUE				
Ceramic Class	1	2			
Ceramic Dielectric	N750, Y5T, Y5U, Y5V				
Voltage (V _{DC})	1000				
Min. Capacitance (pF)	10	47			
Max. Capacitance (pF)	680	22 000			
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, Y5V

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

RoHS

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 5.0 mm or 7.5 mm.

Coating is made of blue colored flame retardant epoxy resin in accordance with UL 94 V-0.

CAPACITANCE RANGE

10 pF to 22 nF

RATED VOLTAGE

 1 kV_{DC}

DIELECTRIC STRENGTH

1750 kV_{DC}, 2 s Component test

INSULATION RESISTANCE AT 500 VDC

 \geq 10 000 M Ω (60 s)

TOLERANCE ON CAPACITANCE

± 10 %, ± 20 %, -20 % +50 %

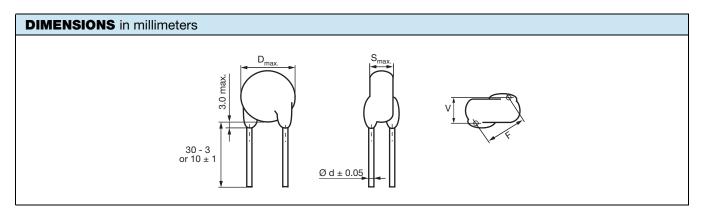
DISSIPATION FACTOR

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)

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ORDERING I	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)	N750 (U2J)							
10		7.0	3.0		0.6	1.4	HAU100KBA###KR	
15							HAU150KBA###KR	
22							HAU220KBA###KR	
33							HAU330KBA###KR	
47							HAU470KBA###KR	
68		8.0					HAU680KBA###KR	
82	. 10			7.5			HAU820KBA###KR	
100	± 10			7.5			HAU101KBA###KR	
150		10.0					HAU151KBA###KR	
220		11.0					HAU221KBA###KR	
330		12.5	3.5				HAU331KBA###KR	
470		14.5					HAU471KBA###KR	
560		16.5					HAU561KBA###KR	
680		18.0					HAU681KBA###KR	
Y5T (2D3)	Y5T (2D3)							
47				5.0	0.6	1.2	HAZ470#BA###KR	
56							HAZ560#BA###KR	
68							HAZ680#BA###KR	
82							HAZ820#BA###KR	
100		7.0					HAZ101#BA###KR	
150							HAZ151#BA###KR	
220							HAZ221#BA###KR	
330	± 10, ± 20		3.0				HAZ331#BA###KR	
470							HAZ471#BA###KR	
680							HAZ681#BA###KR	
1000		9.0					HAZ102#BA###KR	
1500							HAZ152#BA###KR	
2200		11.0					HAZ222#BA###KR	
3300		13.0		7.5			HAZ332#BA###KR	
4700	1	15.0					HAZ472#BA###KR	



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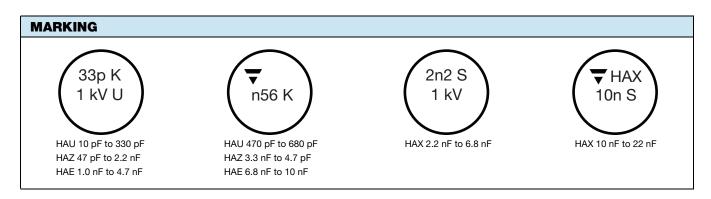
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ORDERING INFORMATION							
		BODY DIAMETER D _{max.} (mm)	BODY THICKNESS S _{max.} (mm)	LEAD SPACING ⁽¹⁾ F (mm) ± 1 mm	LEAD DIAMETER ⁽¹⁾ d (mm) ± 0.05 mm	WIDTH ⁽¹⁾ V (mm) ± 0.5 mm	ORDERING CODE
CAPACITANCE (pF)	TOLERANCE (%)						MISSING DIGITS SEE ORDERING CODE BELOW
Y5U (2E3)							
1000		7.0			0.6	1.2	HAE102MBA###KR
1500		9.0		5.0			HAE152MBA###KR
2200		9.0					HAE222MBA###KR
3300	± 20	11.0	3.0				HAE332MBA###KR
4700							HAE472MBA###KR
6800				7.5			HAE682MBA###KR
10 000		15.0		7.5			HAE103MBA###KR
Y5V (2F3)	Y5V (2F3)						
2200		7.0		5.0	0.6	1.2	HAX222#BA###KR
3300		9.0	3.0				HAX332#BA###KR
4700							HAX472#BA###KR
6800	- 20 / + 50 ⁽²⁾	12.0		7.5			HAX682#BA###KR
10 000							HAX103#BA###KR
15 000		17.0					HAX153#BA###KR
22 000		18.0					HAX223#BA###KR

Notes

^{(2) ± 20 %} available on request

ORDERING CODE							
#	7 th digit	Capacitance tolerance		± 10 % = K, ± 20 % = M, - 20 % / + 50 % = S			
###	10 th to 12 th digit	Lead configuration		see "General Information"			
Example	HAU	101	K	ВА	BFG	K	R
	Series	Capacitance value	Tolerance code	Voltage code	Lead configuration	Internal code	RoHS compliant



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

⁽¹⁾ Standard lead configuration, other lead spacing and diameter available on request



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