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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 _{AC})	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

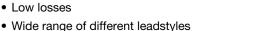
Class 1 N750 (U2J) Class 2 Y5T, Y5U, Y5V

SECTIONAL SPECIFICATIONS

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

FEATURES

• High capacitance in small sizes







RoHS

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 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 V_{DC}

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

TOLERANCE ON CAPACITANCE

± 10 %, ± 20 %, -20 % +50 %

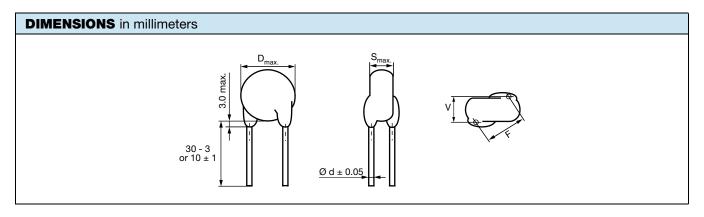
DISSIPATION FACTOR

Class 1:

C < 30 pF: $\left(\frac{100 \text{ pF}}{\text{C}} + 0.7\right) \times 10^{-4} \text{ max.} (1 \text{ MHz})$

 $C \ge 30 \text{ pF:} \quad \text{max. } 0.1 \ \% \ (1 \text{ MHz})$ Class 2: $\quad \text{max. } 2.5 \ \% \ (1 \text{ kHz})$

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ORDERING I	NFORMATIO	N						
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)								
10		7.0	3.0			1.4	HAU100KBAKR	
15							HAU150KBAKR	
22							HAU220KBAKR	
33							HAU330KBAKR	
47							HAU470KBAKR	
68		8.0					HAU680KBAKR	
82	. 10			7.5	0.6		HAU820KBAKR	
100	± 10			7.5	0.6		HAU101KBAKR	
150		10.0					HAU151KBAKR	
220		11.0					HAU221KBAKR	
330		12.5	3.5				HAU331KBAKR	
470]	14.5					HAU471KBAKR	
560		16.5					HAU561KBAKR	
680]	18.0					HAU681KBAKR	
Y5T (2D3)	Y5T (2D3)							
47		7.0 9.0	3.0	5.0	0.6	1.2	HAZ470.BAKR	
56							HAZ560.BAKR	
68							HAZ680.BAKR	
82]						HAZ820.BAKR	
100]						HAZ101.BAKR	
150]						HAZ151.BAKR	
220]						HAZ221.BAKR	
330	± 10, ± 20						HAZ331.BAKR	
470							HAZ471.BAKR	
680							HAZ681.BAKR	
1000							HAZ102.BAKR	
1500							HAZ152.BAKR	
2200		11.0					HAZ222.BAKR	
3300		13.0		7.5			HAZ332.BAKR	
4700	1	15.0					HAZ472.BAKR	



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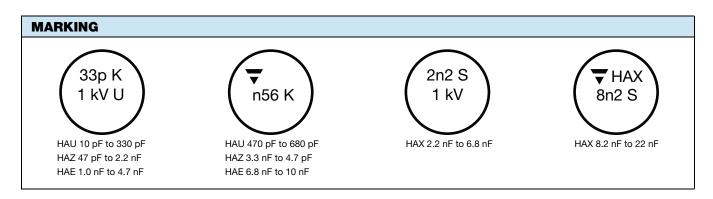
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ORDERING INFORMATION							
		BODY	BODY	LEAD	LEAD	WIDTH (1)	ORDERING CODE
CAPACITANCE (pF)			THICKNESS S _{max.} (mm)	SPACING ⁽¹⁾ F (mm) ± 1 mm	DIAMETER ⁽¹⁾ d (mm) ± 0.05 mm	V (mm) ± 0.5 mm	MISSING DIGITS SEE ORDERING CODE BELOW
Y5U (2E3)							
1000		7.0			0.6	1.2	HAE102MBAKR
1500		9.0	3.0	5.0			HAE152MBAKR
2200	± 20						HAE222MBAKR
3300		11.0					HAE332MBAKR
4700							HAE472MBAKR
6800		13.0		7.5			HAE682MBAKR
10000		15.0					HAE103MBAKR
Y5V (2F3)							
2200	-20/+50 ⁽²⁾	7.0		5.0	0.6	1.2	HAX222.BAKR
3300		9.0	3.0				HAX332.BAKR
4700							HAX472.BAKR
6800		12.0		7.5			HAX682.BAKR
10000							HAX103.BAKR
15000		17.0					HAX153.BAKR
22000		18.0					HAX223.BAKR

Notes

^{(2) ± 20 %} available on request

ORDERING CODE							
•	7 th digit	Capacitano	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	К	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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