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Vishay Draloric

# Ceramic Singlelayer DC Disc Capacitors, 1 kV<sub>DC</sub> General Purpose



QUICK REFERENCE DATA					
DESCRIPTION	VALUE				
Ceramic Class	1	2			
Ceramic Dielectric	N750, Y5T, Y5U, Y5V				
Voltage (V <sub>DC</sub> )	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

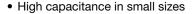
# **TEMPERATURE CHARACTERISTICS**

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

# **SECTIONAL SPECIFICATIONS**

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

## **FEATURES**





Low losses

· Wide range of different lead styles

 Material categorization: for definitions of compliance please see www.vishay.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**

1000 V<sub>DC</sub>

# **DIELECTRIC STRENGTH**

1750 V<sub>DC</sub>, 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**

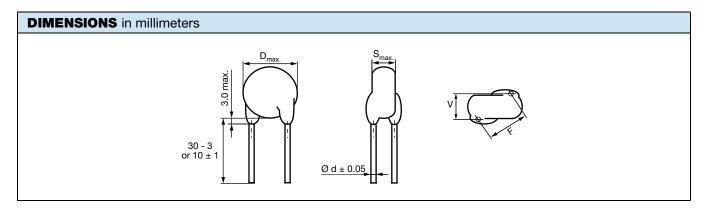
Class 1:

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						
		BODY	BODY	LEAD	LEAD	WIDTH (1)	ORDERING CODE	
CAPACITANCE (pF)	TOLERANCE (%)	DIAMETER D <sub>max.</sub> (mm)	THICKNESS S <sub>max.</sub> (mm)	SPACING <sup>(1)</sup> F (mm) ± 1 mm	DIAMETER <sup>(1)</sup> d (mm) ± 0.05 mm	V (mm) ± 0.5 mm	MISSING DIGITS SEE ORDERING CODE BELOW	
N750 (U2J)								
10		7.0	3.0	7.5	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						HAU820KBA###KR	
100	± 10						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			3.0				HAZ560#BA###KR	
68							HAZ680#BA###KR	
82							HAZ820#BA###KR	
100		7.0					HAZ101#BA###KR	
150		7.0					HAZ151#BA###KR	
220							HAZ221#BA###KR	
330	± 10, ± 20						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		15.0	1				HAZ472#BA###KR	



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ORDERING INFORMATION							
		BODY	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
CAPACITANCE (pF)	TOLERANCE (%)	DIAMETER D <sub>max.</sub> (mm)					MISSING DIGITS SEE ORDERING CODE BELOW
Y5U (2E3)							
1000		7.0					HAE102MBA###KR
1500		0.0				HAE152MBA###KR	
2200	± 20	9.0		5.0	0.6	1.2	HAE222MBA###KR
3300		11.0	3.0				HAE332MBA###KR
4700							HAE472MBA###KR
6800		13.0		7.5			HAE682MBA###KR
10 000		15.0					HAE103MBA###KR
Y5V (2F3)							
2200		7.0			0.6	1.2	HAX222#BA###KR
3300		9.0		5.0			HAX332#BA###KR
4700	- 20 / + 50 <sup>(2)</sup>						HAX472#BA###KR
6800		12.0	3.0				HAX682#BA###KR
10 000				7.5			HAX103#BA###KR
15 000		17.0		7.5			HAX153#BA###KR
22 000		18.0					HAX223#BA###KR

#### Notes

<sup>(2) ± 20 %</sup> available on request

ORDER	ING CODE						
#	7 <sup>th</sup> digit	Capacitano	Capacitance tolerance		± 10 % = K, ± 20 % = M, - 20 % / + 50 % = S		
###	10 <sup>th</sup> to 12 <sup>th</sup> digit	Lead confiç	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

<sup>(1)</sup> Standard lead configuration, other lead spacing and diameter available on request



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