HAU, HAZ, HAE, HAX Series

Vishay Draloric

RoHS

COMPLIANT

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



www.vishay.com

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.vishay.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 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_{DC}

DIELECTRIC STRENGTH

1750 V_{DC}, 2 s Component test

INSULATION RESISTANCE AT 500 V_{DC}

 \geq 10 000 M Ω (60 s)

TOLERANCE ON CAPACITANCE

± 10 %, ± 20 %, -20 % +50 %

DISSIPATION FACTOR

Class 1: $C < 30 \text{ pF:} \left(\frac{100 \text{ pF}}{C} + 0.7\right) \times 10^{-4} \text{ max.} (1 \text{ MHz})$ $C \ge 30 \text{ pF:} \text{ max.} 0.1 \% (1 \text{ MHz})$ Class 2: max. 2.5 % (1 kHz)

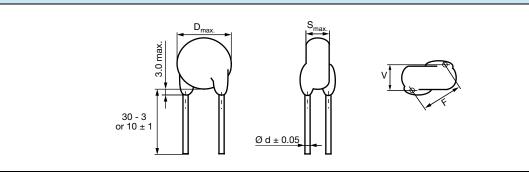
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DIMENSIONS in millimeters



		BODY	BODY	LEAD	LEAD		ORDERING COD	
CAPACITANCE (pF)	TOLERANCE (%)	DIAMETER D _{max.} (mm)	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	
N750 (U2J)	•	•	•	•				
10							HAU100KBA###K	
15		7.0					HAU150KBA###K	
22			3.0		0.6	1.4	HAU220KBA###K	
33							HAU330KBA###K	
47							HAU470KBA###K	
68		8.0					HAU680KBA###K	
82	. 10			7.5			HAU820KBA###K	
100	± 10			7.5			HAU101KBA###K	
150		10.0					HAU151KBA###K	
220		11.0	3.5				HAU221KBA###K	
330		12.5					HAU331KBA###K	
470		14.5					HAU471KBA###K	
560	-	16.5					HAU561KBA###K	
680		18.0					HAU681KBA###K	
Y5T (2D3)								
47							HAZ470#BA###K	
56							HAZ560#BA###K	
68							HAZ680#BA###K	
82							HAZ820#BA###K	
100		7.0					HAZ101#BA###K	
150]	7.0		5.0	0.6	1.2	HAZ151#BA###K	
220							HAZ221#BA###K	
330	± 10, ± 20		3.0				HAZ331#BA###K	
470							HAZ471#BA###K	
680]				HAZ681#BA###K	
1000		9.0					HAZ102#BA###K	
1500		9.0					HAZ152#BA###K	
2200		11.0]				HAZ222#BA###K	
3300]	13.0]	7 5			HAZ332#BA###K	
4700	1	15.0	1	7.5			HAZ472#BA###K	

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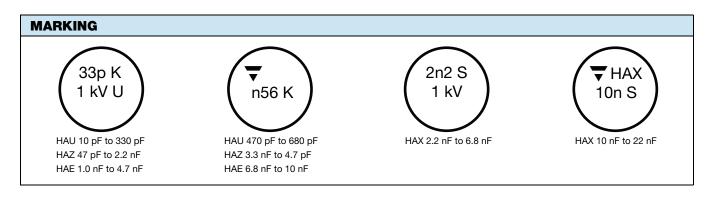
ORDERING INFORMATION								
CAPACITANCE (pF)	TOLERANCE (%)	BODY DIAMETER D _{max.} (mm)	BODY THICKNESS S _{max.} (mm)	LEAD SPACING ⁽¹⁾ F (mm) ± 1 mm	LEAD DIAMETER ⁽¹⁾ d (mm) ± 0.05 mm	WIDTH ⁽¹⁾ V (mm) ± 0.5 mm	ORDERING CODE MISSING DIGITS SEE ORDERING CODE BELOW	
Y5U (2E3)	Y5U (2E3)							
1000		7.0				1.2	HAE102MBA###KR	
1500		0.0	3.0	5.0	0.6		HAE152MBA###KR	
2200		9.0					HAE222MBA###KR	
3300	± 20	11.0					HAE332MBA###KR	
4700							HAE472MBA###KR	
6800		13.0					HAE682MBA###KR	
10 000		15.0					HAE103MBA###KR	
Y5V (2F3)	Y5V (2F3)							
2200		7.0			0.6	1.2	HAX222#BA###KR	
3300		9.0		5.0			HAX332#BA###KR	
4700	- 20 / + 50 ⁽²⁾						HAX472#BA###KR	
6800		10.0	3.0	7.5			HAX682#BA###KR	
10 000		12.0					HAX103#BA###KR	
15 000		17.0					HAX153#BA###KR	
22 000	1	18.0					HAX223#BA###KR	

Notes

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

 $(2) \pm 20$ % available on request

ORDERING CODE							
#	7 th digit	Capacitance tolerance		\pm 10 % = K, \pm 20 % = M, - 20 % / + 50 % = S			
###	10 th to 12 th digit	Lead configuration		see "General Information"			
Example	HAU	101	К	BA	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

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