

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
- Low losses
- Wide range of different leadstyles
- Material categorization:
For definitions of compliance please see www.vishay.com/doc?99912



RoHS
COMPLIANT

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}

≥ 10 000 MΩ (60 s)

TOLERANCE ON CAPACITANCE

± 10 %, ± 20 %, - 20 % + 50 %

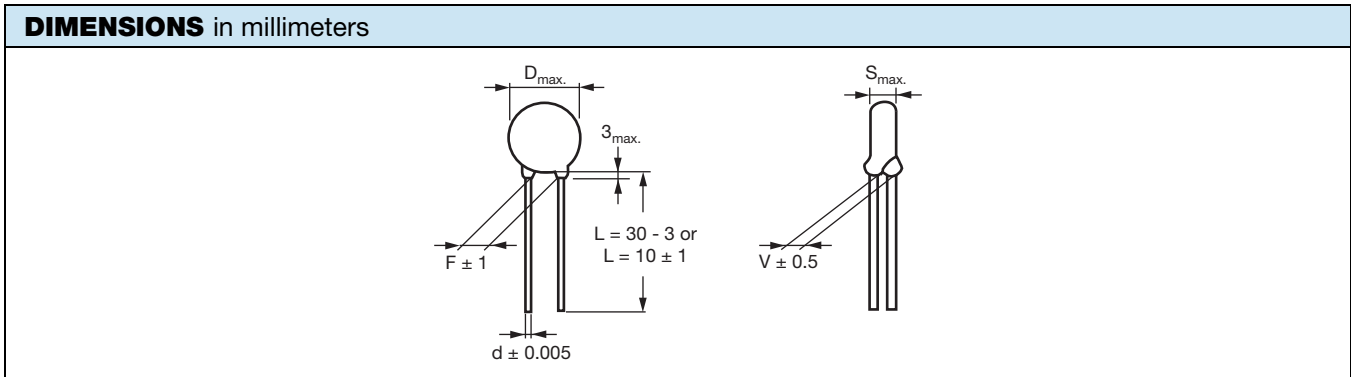
DISSIPATION FACTOR

Class 1:

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

$C \geq 30 \text{ pF: Max. 0.1 \% (1 MHz)}$

Class 2: Max. 2.5 % (1 kHz)



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)											
10	± 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							HAU680KBA...KR				
82		8.0	3.5				HAU820KBA...KR				
100							HAU101KBA...KR				
150							HAU151KBA...KR				
220							HAU221KBA...KR				
330							HAU331KBA...KR				
470							HAU471KBA...KR				
560		16.5	3.5				HAU561KBA...KR				
680							HAU681KBA...KR				
Y5T (2D3)											
47		± 10, ± 20	7.0				3.0	5.0	0.6	1.2	HAZ470.BA...KR
56	HAZ560.BA...KR										
68	HAZ680.BA...KR										
82	HAZ820.BA...KR										
100	HAZ101.BA...KR										
150	HAZ151.BA...KR										
220	HAZ221.BA...KR										
330	HAZ331.BA...KR										
470	HAZ471.BA...KR										
680	HAZ681.BA...KR										
1000	9.0			3.0	7.5	HAZ102.BA...KR					
1500						HAZ152.BA...KR					
2200						HAZ222.BA...KR					
3300			HAZ332.BA...KR								
4700			11.0			3.0	7.5	HAZ472.BA...KR			
								13.0			HAZ472.BA...KR
4700	15.0		3.0	7.5	HAZ472.BA...KR						



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)							
1000	± 20	7.0	3.0	5.0	0.6	1.2	HAE102MBA...KR
1500		9.0					HAE152MBA...KR
2200		HAE222MBA...KR					
3300		11.0					HAE332MBA...KR
4700		13.0		HAE472MBA...KR			
6800		15.0		HAE682MBA...KR			
10000		7.5		HAE103MBA...KR			
Y5V (2F3)							
2200	- 20/+ 50 ⁽²⁾	7.0	3.0	5.0	0.6	1.2	HAX222.BA...KR
3300		9.0					HAX332.BA...KR
4700		HAX472.BA...KR					
6800		12.0		HAX682.BA...KR			
10000		17.0		HAX103.BA...KR			
15000		18.0		HAX153.BA...KR			
22000		7.5		HAX223.BA...KR			

Notes

- ⁽¹⁾ Standard lead configuration, other lead spacing and diameter available on request
- ⁽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	BA	BFG	K	R
	Series	Capacitance value	Tolerance code	Voltage code	Lead configuration	Internal code	RoHS compliant

MARKING			
 33p K 1 kV U	 ▼ n56 K	 2n2 S 1 kV	 ▼ HAX 8n2 S
HAU 10 pF to 330 pF HAZ 47 pF to 2.2 nF HAE 1.0 nF to 4.7 nF	HAU 470 pF to 680 pF HAZ 3.3 nF to 4.7 pF HAE 6.8 nF to 10 nF	HAX 2.2 nF to 6.8 nF	HAX 8.2 nF to 22 nF

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



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