

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





 Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>





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

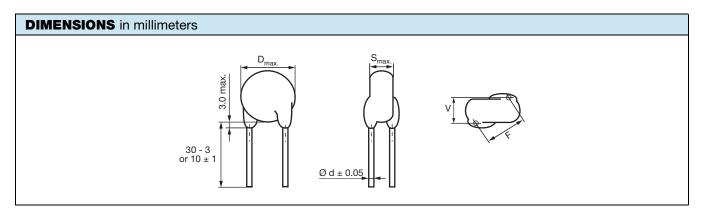
Class 1:

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)

ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT www.vishav.com/doc?91000

Vishay Draloric



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	HAU100KBA###KR	
15							HAU150KBA###KR	
22]						HAU220KBA###KR	
33]						HAU330KBA###KR	
47]						HAU470KBA###KR	
68]	8.0					HAU680KBA###KR	
82	. 10			7.5	0.0		HAU820KBA###KR	
100	± 10			7.5	0.6		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	1	16.5					HAU561KBA###KR	
680		18.0					HAU681KBA###KR	
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							HAZ101#BA###KR	
150		7.0					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	1	13.0		7.5			HAZ332#BA###KR	
4700	1	15.0					HAZ472#BA###KR	



www.vishay.com

Vishay Draloric

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		0.0	3.0	5.0 7.5			HAE152MBA###KR
2200		9.0					HAE222MBA###KR
3300	± 20	11.0					HAE332MBA###KR
4700		11.0					HAE472MBA###KR
6800		13.0					HAE682MBA###KR
10 000		15.0					HAE103MBA###KR
Y5V (2F3)							
2200		7.0			0.6	1.2	HAX222#BA###KR
3300		9.0	3.0	5.0			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		7.5			HAX153#BA###KR
22 000		18.0					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	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



Legal Disclaimer Notice

Vishay

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Ceramic Disc Capacitors category:

Click to view products by Vishay manufacturer:

Other Similar products are found below:

 009377XM
 5AS560JCFCA
 5AU100JCECA
 5AU470JCJCA
 DEF2CLH020CA3B
 HSE102MAQBF0KR
 432202101621
 432202282431

 DEF2CLH030CJ3B
 W1X223MCVCF0KR
 564RC0GBA302EJ470K
 5AS270JCDCA
 5AS330JCDCA
 5AU330JCGCA

 DE1E3KX222MJ4BN01F
 440LT68AP-R
 JN222MQ47FAAAAKPLP
 H8000090-245
 H8000090-225RY
 H8000090-309RY
 H8000090

 291RY
 F471K39S3NR63K7R
 DEF2CLH040CN3A
 DEF2CLH080DA3B
 564R3DF0T22
 CC2150KY5P1KVB5LS-LF

 CC2180KY5P1KVB5LS-LF
 CC2470KY5P1KVB5LS-LF
 CC2820KY5P1KVB5LS-LF
 0838-040-X7R0-220K
 JN102MQ35FAAAAKPLP

 0841-040-X5U0-103M
 CCH-6K8-5/1000V
 140-50N2-101J-TB-RC
 ECK-DGL102ME
 562R5GAD47RR
 S103K75Y5PN8BT0R

 615R100GAD10
 615R150GAD10
 NCD100K1KVSLF
 NCD682M1KVZ5UF
 CCK-100N
 CCK-100P
 CCK-2N2
 CCK-47N
 CCK-47N