

Vishay Draloric

High Voltage Ceramic Singlelayer DC Disc Capacitors, Class 1, Low Loss, 25 kV_{DC}



QUICK REFERENCE DATA			
DESCRIPTION	VALUE		
Ceramic Class	1		
Ceramic Dielectric	N750, N2200		
Voltage (V _{DC})	25 000		
Min. Capacitance (pF)	12		
Max. Capacitance (pF)	36		
Mounting	Radial		

MARKING

Marking indicates series, capacitance and tolerance code.

OPERATING TEMPERATURE RANGE

-40 °C to +125 °C

TEMPERATURE CHARACTERISTICS

N750, N2200

SECTIONAL SPECIFICATIONS

Climatic category (according to EN 60068-1): 40/125/21

FEATURES





Low losses

· Wide range of different lead styles

(e3)

 Material categorization: for definitions of compliance please see www.vishav.com/doc?99912 ROHS COMPLIANT

APPLICATIONS

- SMPS
- DC and pulse high voltage
- X-ray and laser equipment

DESIGN

The capacitors consist of ceramic disc both sides of which are silver plated. Connection leads are made of tinned copper having diameters of 0.8 mm.

The capacitors may be supplied with straight or kinked leads having a lead spacing of 10.0 mm.

Coating is made of blue colored flame retardant epoxy resin in accordance with UL 94 V-0.

CAPACITANCE RANGE

12 pF to 36 pF

RATED VOLTAGE

 $25 \; kV_{DC}$

DIELECTRIC STRENGTH

35 000 V_{DC}, 5 s Component test

INSULATION RESISTANCE AT 500 V_{DC}

 \geq 100 000 $M\Omega$ (60 s)

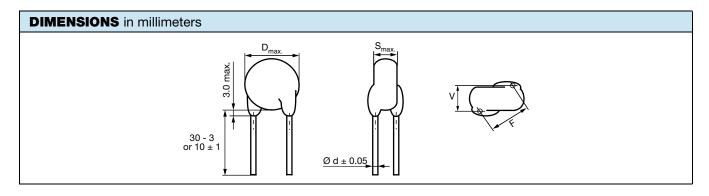
TOLERANCE ON CAPACITANCE

± 20 %, (± 10 % available on request)

DISSIPATION FACTOR

Max. 0.5 % (1 kHz)

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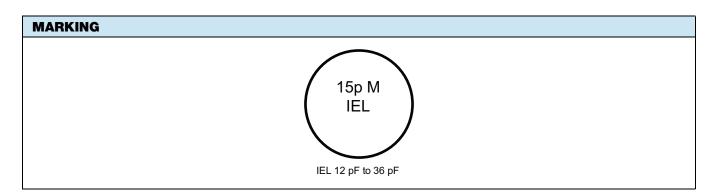


ORDERING INFORMATION							
	TOLERANCE (%)	BODY DIAMETER D _{max.} (mm)	BODY THICKNESS S _{max.} (mm)	LEAD SPACING ⁽¹⁾ F (mm) ± 1 mm	LEAD DIAMETER ⁽¹⁾ d (mm) ± 0.05 mm	WIDTH ⁽¹⁾ V (mm) ± 0.5 mm	ORDERING CODE
CAPACITANCE (pF)							MISSING DIGITS SEE ORDERING CODE BELOW
N750 (U2J)							
12	± 20 ⁽²⁾	10.0	8.0	10.0	0.8	4.0	IEL120MBQ###KR
15	± 20 (=)						IEL150MBQ###KR
N2200 (R3L)							
36	± 20 ⁽²⁾	10.0	8.0	10.0	0.8	4.0	IEL360MBQ###KR

Notes

^{(2) ± 10 %} available on request

ORDERING CODE							
#	7 th digit	Capacitance tolerance		± 10 % = K, ± 2	0 % = M		
###	10 th to 12 th digit	Lead configuration		see "General Information"			
Example	IEL	150	М	BQ	DF0	К	R
	Series	Capacitance value	Tolerance code	Voltage code	Lead configuration	Internal code	RoHS compliant

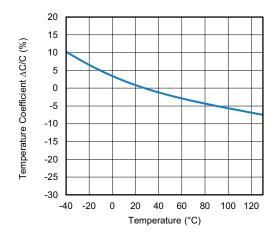


⁽¹⁾ Standard lead configuration, other lead spacing and diameter available on request

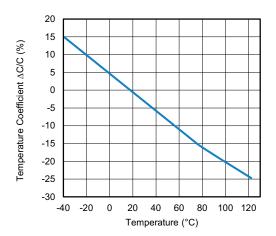


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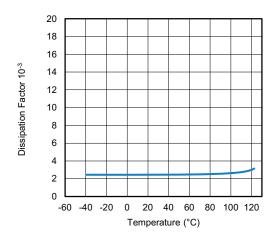
CERAMIC DIELECTRIC. N750 (U2J) CAPACITANCE VS. TEMPERATURE



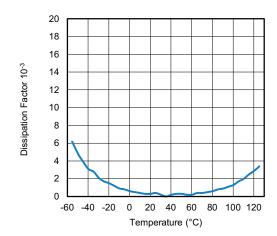
CERAMIC DIELECTRIC. N2200 (R3L) CAPACITANCE VS. TEMPERATURE



DISSIPATION FACTOR VS. TEMPERATURE



DISSIPATION FACTOR VS. TEMPERATURE



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

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