

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



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


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}

≥ 100 000 MΩ (60 s)

TOLERANCE ON CAPACITANCE

± 20 %, (± 10 % available on request)

DISSIPATION FACTOR

Max. 0.5 % (1 kHz)

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

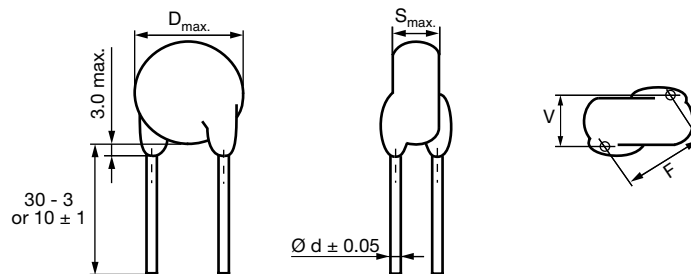
TEMPERATURE CHARACTERISTICS

N750, N2200

SECTIONAL SPECIFICATIONS

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

DIMENSIONS in millimeters



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)							
12	± 20 ⁽²⁾	10.0	8.0	10.0	0.8	4.0	IEL120MBQ###KR
15							IEL150MBQ###KR
N2200 (R3L)							
36	± 20 ⁽²⁾	10.0	8.0	10.0	0.8	4.0	IEL360MBQ###KR

Notes

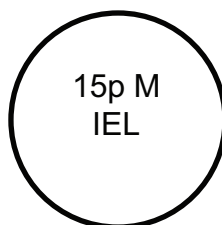
⁽¹⁾ Standard lead configuration, other lead spacing and diameter available on request

⁽²⁾ ± 10 % available on request

ORDERING CODE

#	7 th digit	Capacitance tolerance	± 10 % = K, ± 20 % = M				
###	10 th to 12 th digit	Lead configuration	see "General Information"				
Example	IEL	150	M	BQ	DF0	K	R
	Series	Capacitance value	Tolerance code	Voltage code	Lead configuration	Internal code	RoHS compliant

MARKING

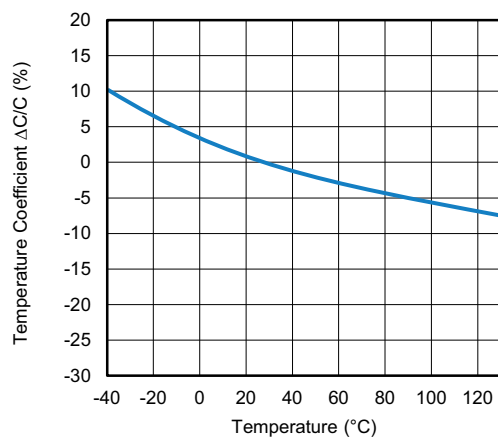


IEL 12 pF to 36 pF



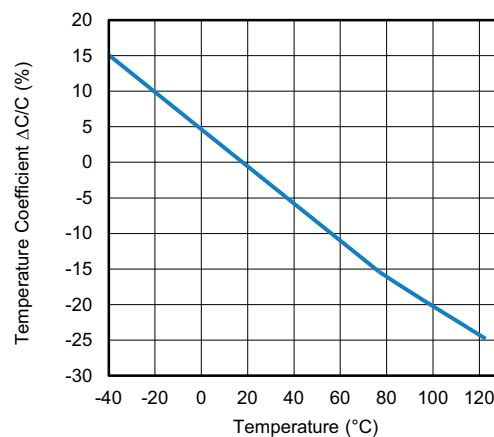
CERAMIC DIELECTRIC. N750 (U2J)

CAPACITANCE VS. TEMPERATURE

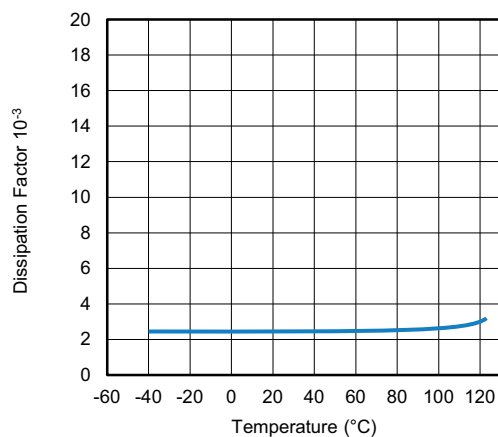


CERAMIC DIELECTRIC. N2200 (R3L)

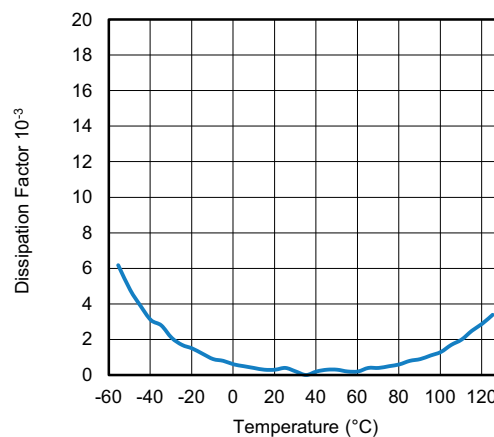
CAPACITANCE VS. TEMPERATURE



DISSIPATION FACTOR VS. TEMPERATURE



DISSIPATION FACTOR VS. TEMPERATURE



RELATED DOCUMENTS

General Information

www.vishay.com/doc?22001



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