

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


RoHS
COMPLIANT

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

- 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

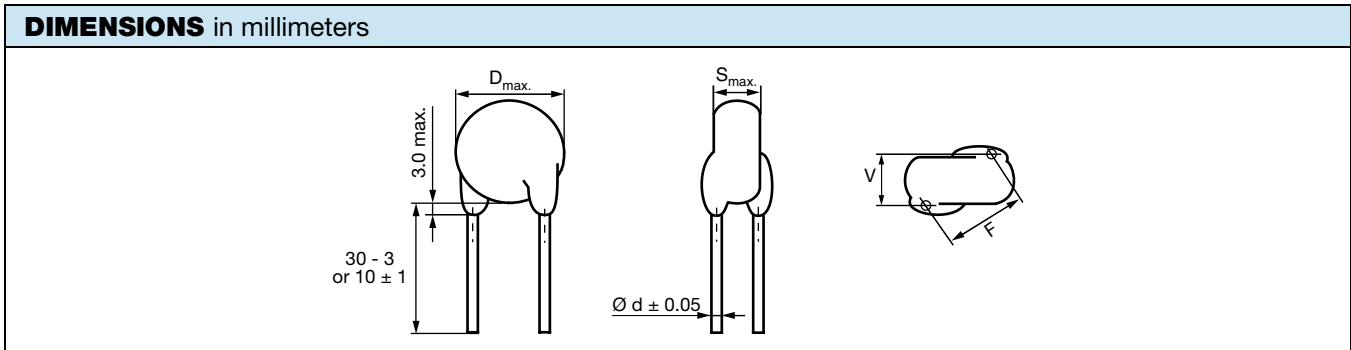
-40 °C to +125 °C

TEMPERATURE CHARACTERISTICS

N750, N2200

SECTIONAL SPECIFICATIONS

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

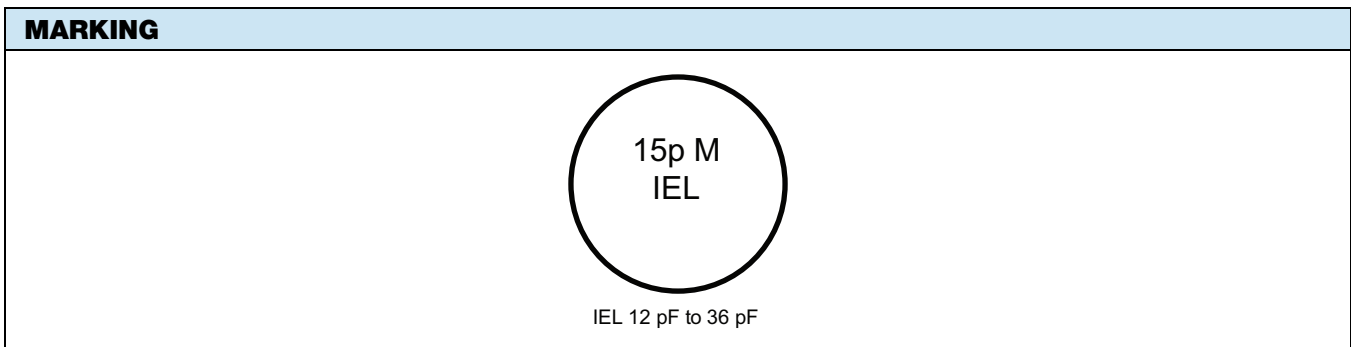


ORDERING INFORMATION							
CAPACITANCE (pF)	TOLERANCE (%)	BODY DIAMETER D_{max} (mm)	BODY THICKNESS S_{max} (mm)	LEAD SPACING ⁽¹⁾ F (mm) ± 1 mm	LEAD DIAMETER ⁽¹⁾ d (mm) ± 0.05 mm	WIDTH ⁽¹⁾ V (mm) ± 0.5 mm	ORDERING CODE MISSING DIGITS SEE ORDERING CODE BELOW
N750 (U2J)							
12	± 20 ⁽²⁾	10.0	8.0	10.0	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

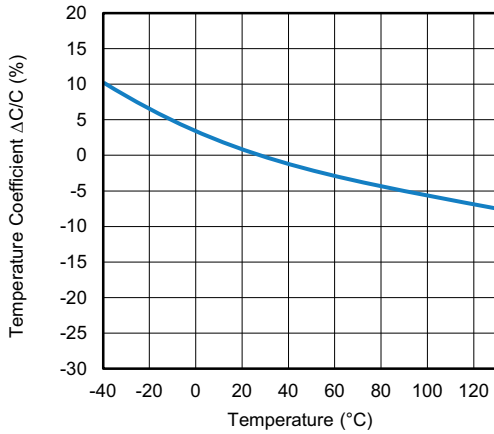
ORDERING CODE							
#	7 th digit	Capacitance tolerance	± 10 % = K, ± 20 % = M				
###	10 th to 12 th digit	Lead configuration	see "General Information"				
Example	IEL Series	150 Capacitance value	M Tolerance code	BQ Voltage code	DF0 Lead configuration	K Internal code	R RoHS compliant





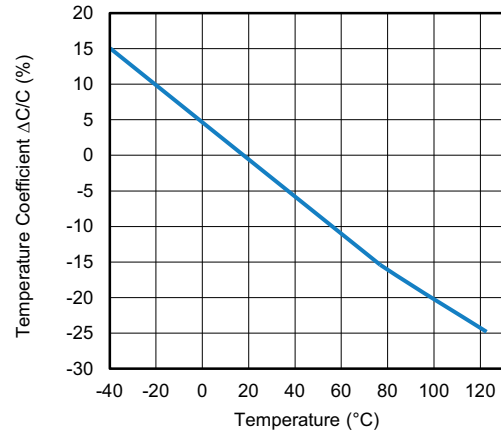
CERAMIC DIELECTRIC. N750 (U2J)

CAPACITANCE VS. TEMPERATURE

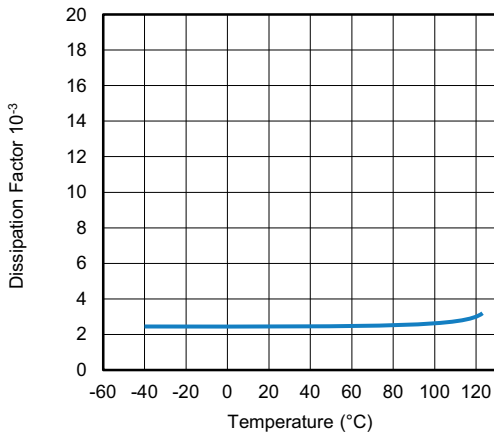


CERAMIC DIELECTRIC. N2200 (R3L)

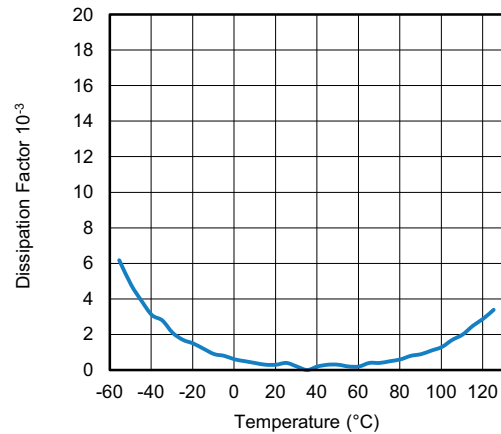
CAPACITANCE VS. TEMPERATURE



DISSIPATION FACTOR VS. TEMPERATURE



DISSIPATION FACTOR VS. TEMPERATURE



RELATED DOCUMENTS

General Information

www.vishay.com/doc?22001



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