

RF Power Barrel Capacitors for Higher Voltages Class 1 Ceramic



FEATURES

- High voltage and power rating
- Low inner inductance allows operation to high frequency

APPLICATIONS

Filter, bypass and coupling circuits

CAPACITANCE RANGE

1000 pF

CAPACITANCE TOLERANCE

± 20 %

CERAMIC DIELECTRICS

R230 (TCC - 750 ppm/K)

RATED VOLTAGE

40 kV_p

DIELECTRIC STRENGTH TEST

60 000 V_{DC} (2 minutes)

30 000 V_{RMS} (50 Hz, 3 minutes)

DISSIPATION FACTOR

Max. 0.05 % (300 kHz or 100 kHz)

INSULATION RESISTANCE

Min. 100 000 MΩ (at 25 °C)

OPERATING TEMPERATURE RANGE

-55 °C to +100 °C

QUICK REFERENCE DATA

DESCRIPTION	VALUE
Ceramic Class	1
Ceramic Dielectric	R230
Type	TOSZ 114096
Voltage (V _p)	40 000
Min. Capacitance (pF)	1000
Max. Capacitance (pF)	1000
Mounting	Screw terminal

MATERIAL

Capacitor elements made from class 1 ceramic dielectric with noble metal electrodes.

Connection terminals:

thread terminal, copper / brass, silver plated.

Allowable torque: 1/4-20 UNC thread 6.9 Nm (61.5 lbf in)

8-32 UNC thread 1.8 Nm (16.2 lbf in)

FINISH

Capacitor body completely protective lacquered.

MARKING

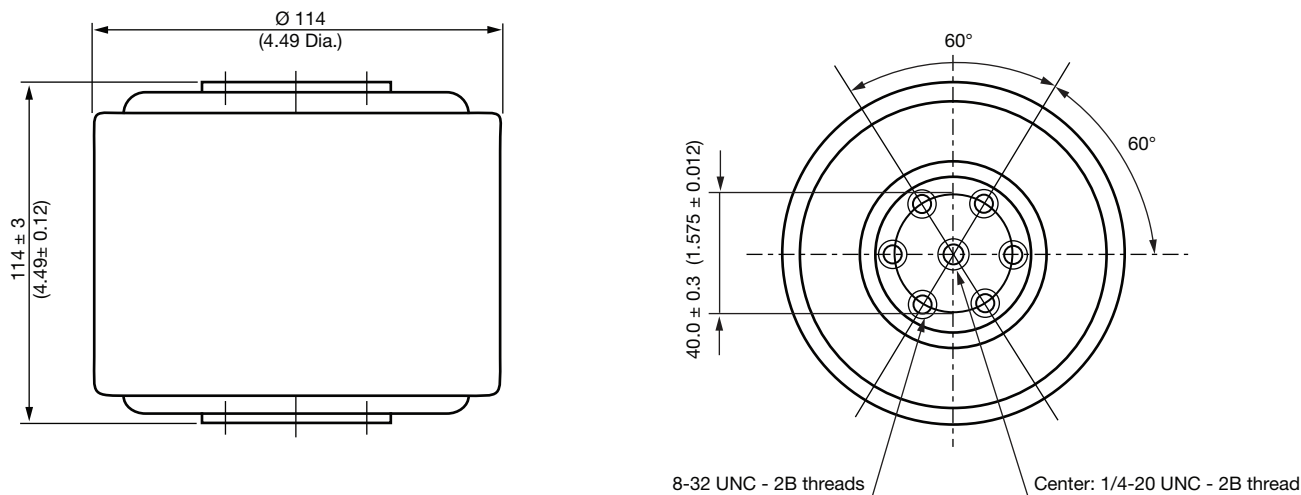
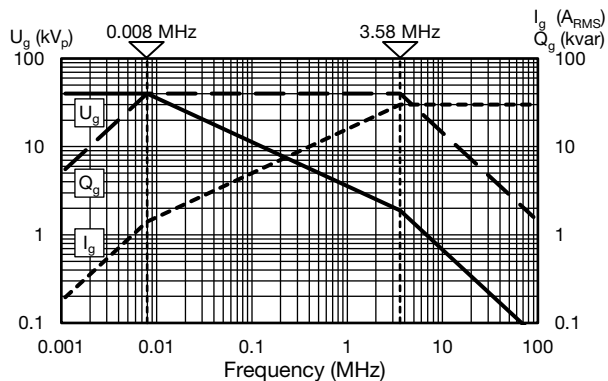
Type designator, capacitance value and tolerance, rated peak voltage, ceramic material code, production date code, manufacturer logo, serial no.

SAP PART NUMBER AND ELECTRICAL DATA

PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV _p)	RATED POWER ⁽¹⁾ (kvar)	RATED CURRENT (A _{RMS})
BZ114096WZ10238BK1	R230	1000	40	40	30

Note

(1) The surface temperature during operation must not exceed +100 °C

DIMENSIONS in millimeters (inches)

DERATING DIAGRAM

RELATED DOCUMENTS

General Information

www.vishay.com/doc?22071



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