TOSZ 114096



Vishay Draloric

RF Power Barrel Capacitors for Higher Voltages Class 1 Ceramic



QUICK REFERENCE DATA			
DESCRIPTION	VALUE		
Ceramic Class	1		
Ceramic Dielectric	R230		
Туре	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.

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

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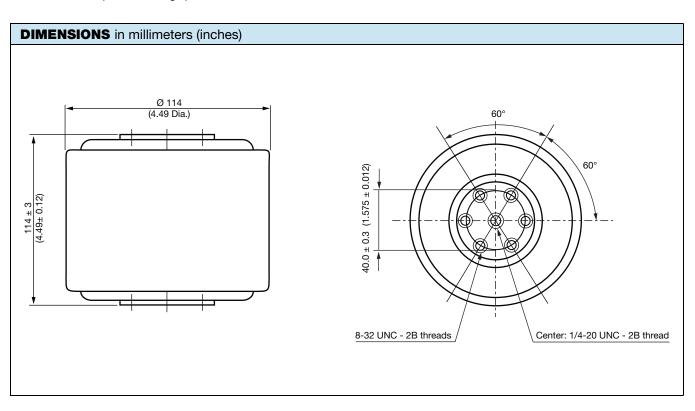


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SAP PART NUMBER AND ELECTRICAL DATA						
PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV _p)	RATED POWER ⁽¹⁾ (kvar)	RATED CURRENT (A _{RMS})	
BZ114096WZ10238BK1	R230	1000	40	40	30	

Note

 $^{(1)}$ The surface temperature during operation must not exceed +100 °C



DERATING DIAGRAM (A_{RMS}) l_g (म_{RM⊅}, Q_g (kvar) **π** 100 U_g (kV_p) 100 ⊨ 0.008 MHz 3.58 MHz Ш Ш 1 10 10 1 1 0.1 0.1 0.001 0.01 0.1 10 100 1 Frequency (MHz)

RELATED DOCUMENTS	
General Information	www.vishay.com/doc?22071

Revision: 11-Sep-15

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Document Number: 22135

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