# **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 <sub>p</sub> )	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

 $40 \text{ kV}_{p}$ 

# **DIELECTRIC STRENGTH TEST**

60 000 V<sub>DC</sub> (2 minutes) 30 000 V<sub>RMS</sub> (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

1

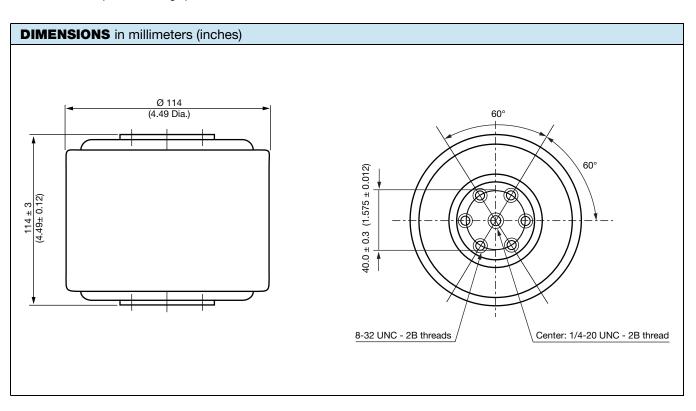


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SAP PART NUMBER AND ELECTRICAL DATA						
PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV <sub>p</sub> )	RATED POWER <sup>(1)</sup> (kvar)	RATED CURRENT (A <sub>RMS</sub> )	
BZ114096WZ10238BK1	R230	1000	40	40	30	

Note

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



#### **DERATING DIAGRAM** l<sub>g</sub> (म<sub>RM⊅</sub>, Q<sub>g</sub> (kvar) **π** 100 (A<sub>RMS</sub>) U<sub>g</sub> (kV<sub>p</sub>) 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

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