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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 kV<sub>p</sub>

#### **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 M $\Omega$  (at 25 °C)

## **OPERATING TEMPERATURE RANGE**

-55 °C to +100 °C



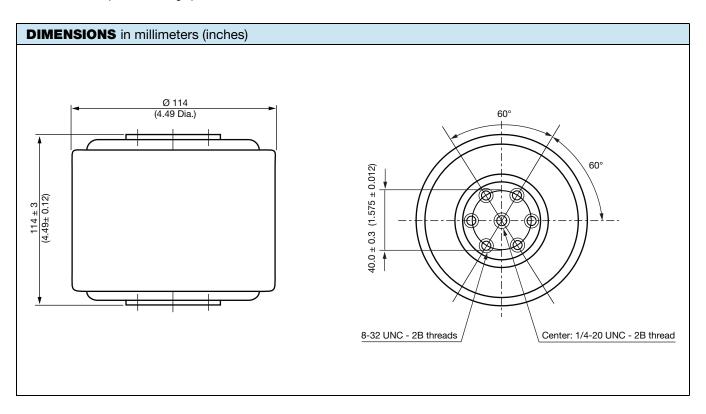
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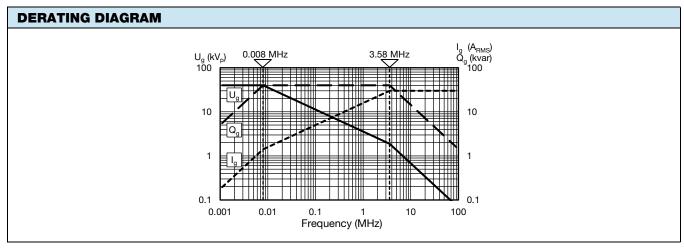
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SAP PART NUMBER AND ELECTRICAL DATA						
PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV <sub>p</sub> )	RATED POWER <sup>(1)</sup> (kvar)	RATED CURRENT (A <sub>RMS</sub> )	
BZ114096WZ10238BK1	R230	1000	40	40	30	

#### Note

 $<sup>^{(1)}</sup>$  The surface temperature during operation must not exceed +100  $^{\circ}$ C





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

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