Vishay Draloric

# RF Power Barrel Capacitors for Dielectric Heating Equipment, R16 HQ Ceramic Dielectric



QUICK REFERENCE DATA			
DESCRIPTION	VALUE		
Ceramic Class	1		
Ceramic Dielectric	R16 HQ		
Туре	TOSZ 118100		
Voltage (V <sub>p</sub> )	30 000		
Min. Capacitance (pF)	100		
Max. Capacitance (pF)	100		
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: 3.5 Nm (31 lbf in)

# **FINISH**

Capacitor body completely glazed.

### **MARKING**

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

## **FEATURES**

These capacitors feature a Q-factor of greater than 10 000 which makes them ideal in operating frequency range from 3 MHz up to 25 MHz where high voltages and currents are present. The TOSZ model can be used as replacement for fixed vacuum capacitors. The construction gives the capacitors an advantage over fixed vacuum capacitors, because there is no possibility of vacuum deterioration.

# **APPLICATIONS**

Dielectric heating equipments in industrial segment

#### **CAPACITANCE RANGE**

100 pF

#### **CAPACITANCE TOLERANCE**

± 10 %

## **CERAMIC DIELECTRICS**

R16 High Q (TCC + 100 ppm/K)

# RATED VOLTAGE

 $30 \text{ kV}_p$ 

## **DIELECTRIC STRENGTH TEST**

140 % rated AC voltage (30 000 V<sub>RMS</sub>, 50 Hz, 5 minutes)

### **RF-POWER TEST**

114 % of rated power, for 5 minutes in a test generator circuit

#### **DISSIPATION FACTOR**

Max. 0.025 % (1 MHz)

#### **INSULATION RESISTANCE**

Min. 100 000 M $\Omega$  (at 25 °C)

### **OPERATING TEMPERATURE RANGE**

-55 °C to +100 °C

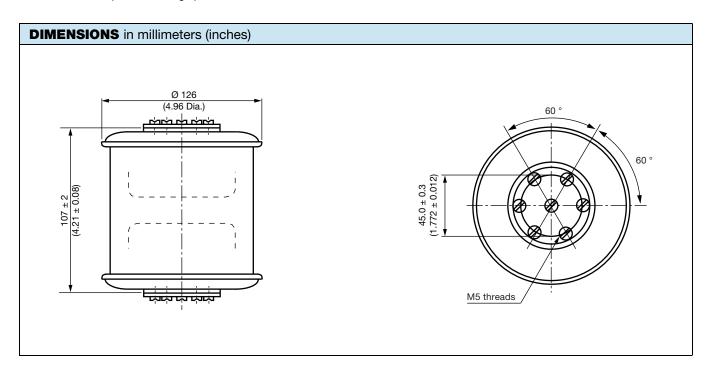


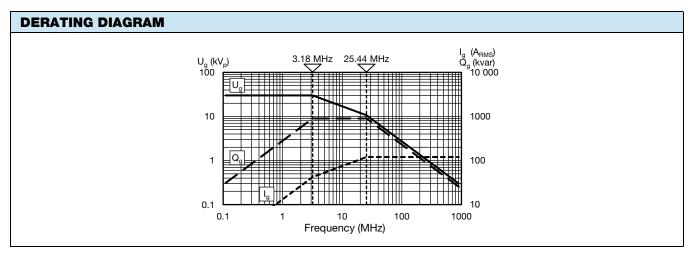
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SAP PART NUMBER AND ELECTRICAL DATA						
PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV <sub>p</sub> )	RATED POWER <sup>(1)</sup> (kvar)	RATED CURRENT (A <sub>RMS</sub> )	
BZ118100WV10136CB1	R16 High Q	100	30	Up to 900	120	

#### 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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