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

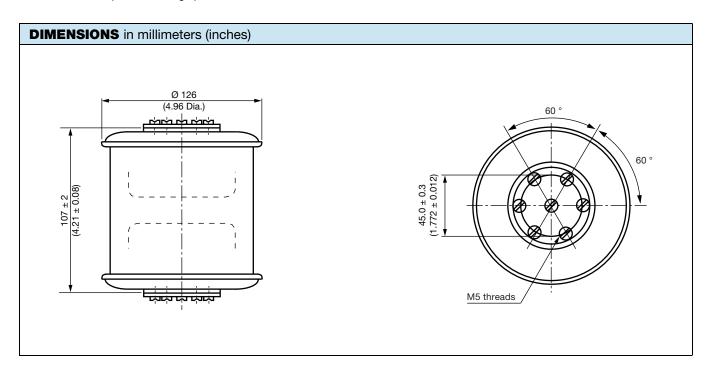


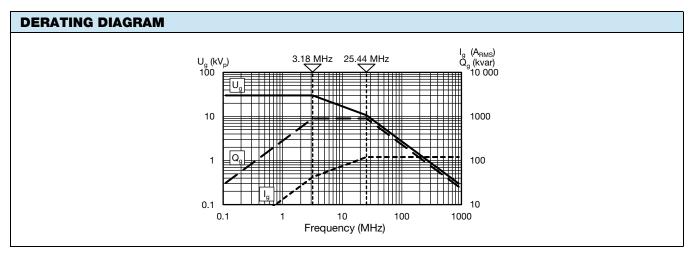
# Vishay Draloric

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



# **Legal Disclaimer Notice**

Vishay

# **Disclaimer**

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.