

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



QUICK REFERENCE DATA	
DESCRIPTION	VALUE
Ceramic Class	1
Ceramic Dielectric	R16 HQ
Type	TOSZ 120055
Voltage ( $V_p$ )	9000
Min. Capacitance (pF)	160
Max. Capacitance (pF)	250
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 10 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

160 pF to 250 pF

### CAPACITANCE TOLERANCE

$\pm 10 \%$

### CERAMIC DIELECTRICS

R16 High Q (TCC + 100 ppm/K)

### RATED VOLTAGE

9 kV<sub>p</sub>

### DIELECTRIC STRENGTH TEST

150 % rated voltage (12 700 V<sub>RMS</sub>, 50 Hz, 5 minutes)

### RF POWER TEST

100 % 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

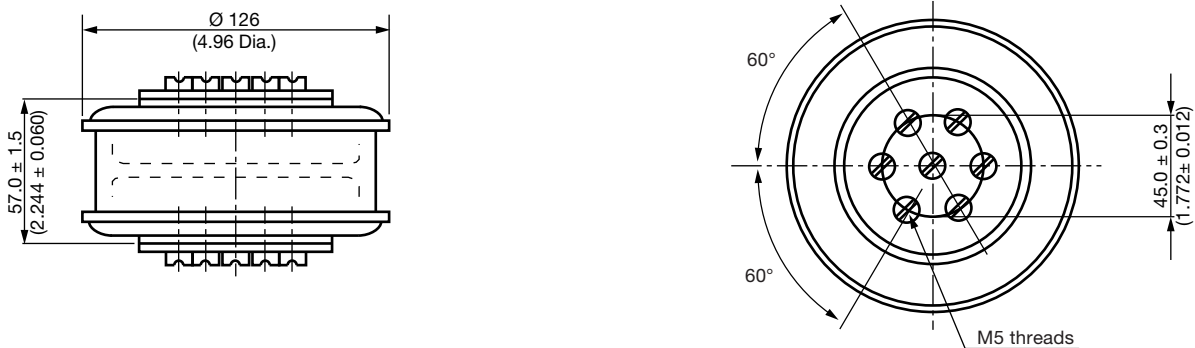
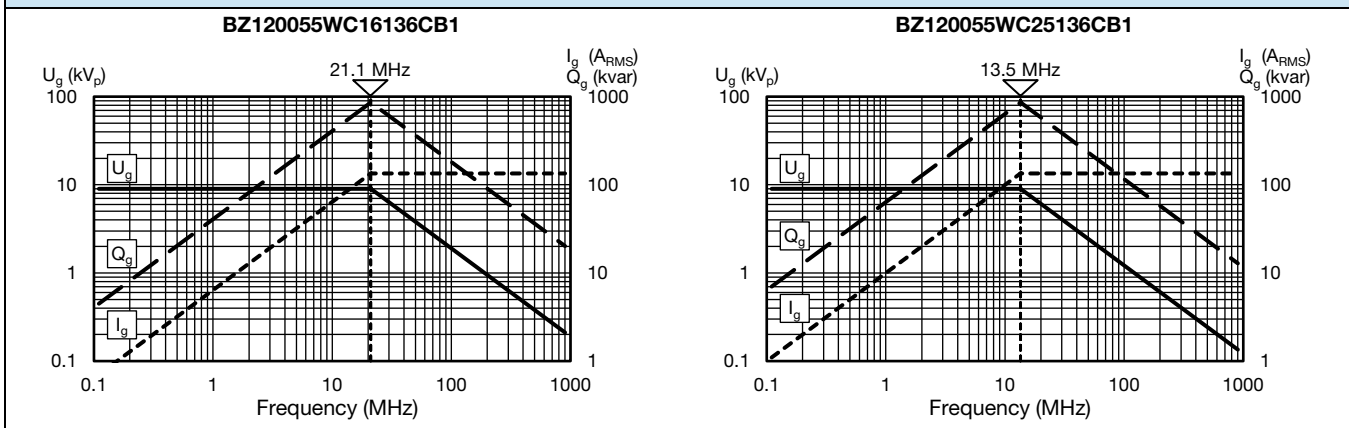
-55 °C to +100 °C

**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> )
BZ120055WC16136CB1	R16 High Q	160	9.0	Up to 862	135
BZ120055WC25136CB1		250			

**Note**

<sup>(1)</sup> The surface temperature during operation must not exceed +100 °C

**DIMENSIONS** in millimeters (inches)

**DERATING DIAGRAM**

**RELATED DOCUMENTS**

General Information

[www.vishay.com/doc?22071](http://www.vishay.com/doc?22071)



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