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 118078
Voltage (V_p)	30 000
Min. Capacitance (pF)	50
Max. Capacitance (pF)	75
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: M4 thread 3.5 Nm (31 lbf in)
M8 thread 6.0 Nm (53 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 0.1 MHz up to 30 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

50 pF to 75 pF

CAPACITANCE TOLERANCE

± 10 %

CERAMIC DIELECTRICS

R16 High Q (TCC + 100 ppm/K)

RATED VOLTAGE

30 kV_p

DIELECTRIC STRENGTH TEST

60 000 V_{DC}, 2 min
140 % rated AC voltage (30 000 V_{RMS}, 50 Hz, 3 minutes)

RF-POWER TEST

140 % of rated power, for 5 minutes in a test generator circuit

DISSIPATION FACTOR

Max. 0.025 % (1 MHz)

INSULATION RESISTANCE

Min. 100 000 MΩ (at 25 °C)

OPERATING TEMPERATURE RANGE

-55 °C to +100 °C

For technical questions, contact: powcap@vishay.com

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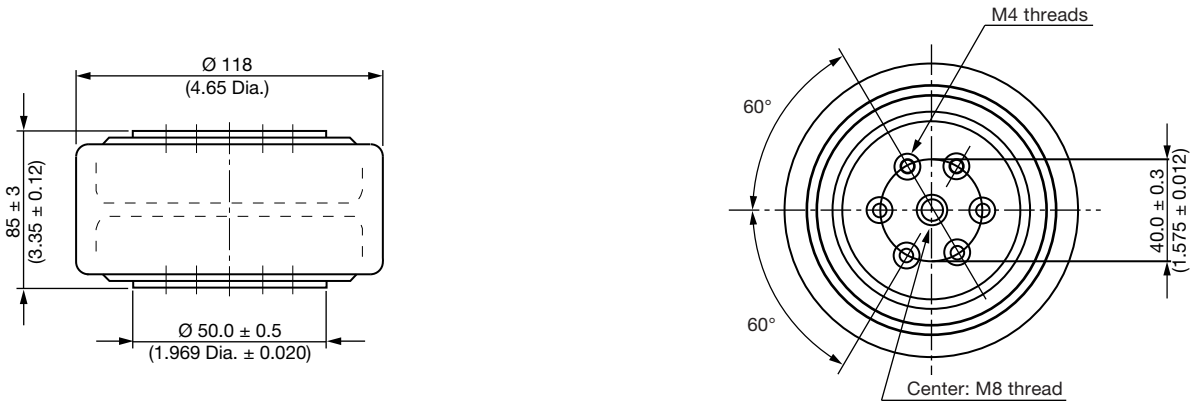
SAP PART NUMBER AND ELECTRICAL DATA

PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV_p)	RATED POWER (1) (kvar)	RATED CURRENT (A_{RMS})
BZ118078WV50036CB1	R16 High Q	50	30	Up to 800	150
BZ118078WV75036CB1		75			

Note

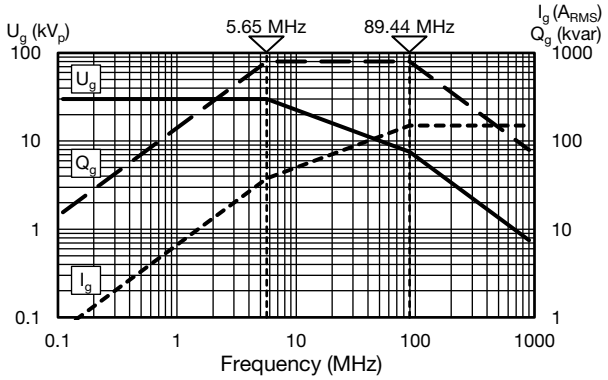
(1) The surface temperature during operation must not exceed +100 °C

DIMENSIONS in millimeters (inches)

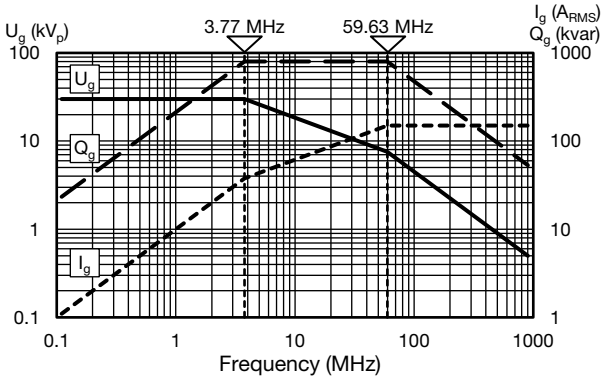


DERATING DIAGRAMS

BZ118078WV50036CB1



BZ118078WV75036CB1



RELATED DOCUMENTS

General Information	www.vishay.com/doc?22071

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