

RF Power Feed-Through Capacitors with Band Conductor, Class 1 Ceramic



FEATURES

- Small size
- Geometry minimizes inductance
- High feed-through currents

APPLICATIONS

Filtering purposes in industrial and medical RF power equipment, where high voltages and high feed-through currents are required

CAPACITANCE RANGE

1.0 nF

CAPACITANCE TOLERANCE

± 20 %; ± 10 %; ± 5 %

CERAMIC DIELECTRICS

R85 (TCC - 750 ppm/K)

RATED VOLTAGE

12.0 kV_p

DIELECTRIC STRENGTH TEST

200 % of rated AC voltage (50 Hz, 5 minutes)

DISSIPATION FACTOR

Max. 0.05 %

Measuring frequencies:
300 kHz or 100 kHz

INSULATION RESISTANCE

Min. 100 000 MΩ (at 25 °C)

OPERATING TEMPERATURE RANGE

-55 °C to +100 °C

QUICK REFERENCE DATA

DESCRIPTION	VALUE
Ceramic Class	1
Ceramic Dielectric	R85
Type	DS 055100
Voltage (V _p)	12 000
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:
made from copper / brass, silver plated

FINISH

Capacitor body completely protective lacquered.
The contoured insulating rims are additionally glazed.

MARKING

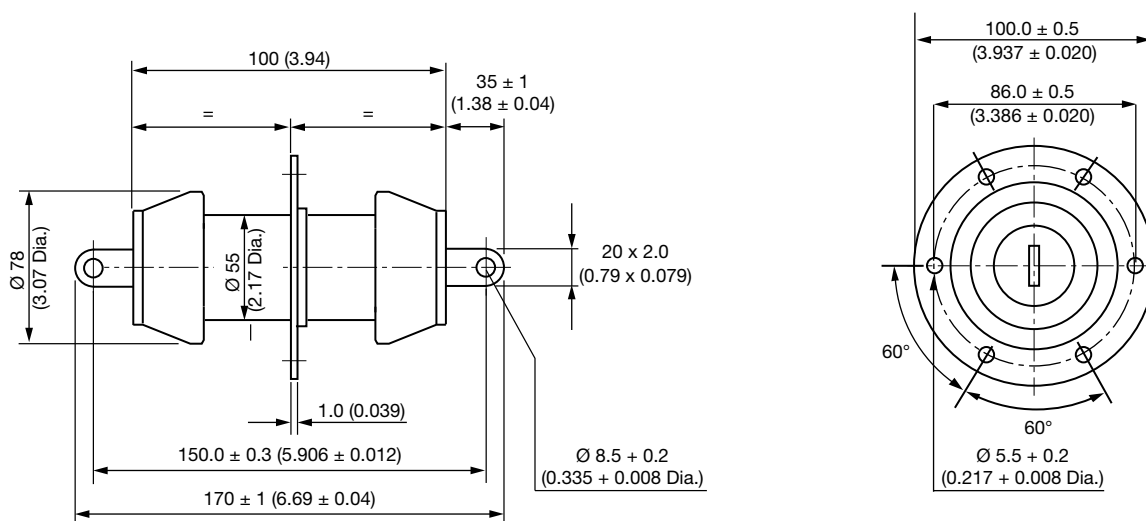
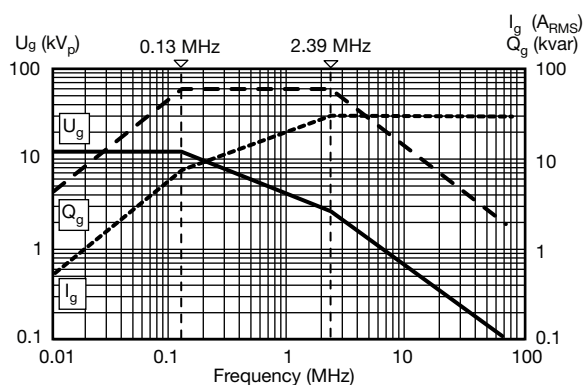
Type designator, capacitance value and tolerance, rated peak voltage, ceramic material code, production date code, manufacturer logo

SAP PART NUMBER AND ELECTRICAL DATA

PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV _P)	RATED POWER ⁽¹⁾ (kvar)	RATED CURRENT (A _{RMS})	FEED-THROUGH CURRENT ⁽²⁾ (A)
DS055100WF102##BJ1	R85	1000	12	60	30	30

Notes

- ## 14th to 15th digit: capacitance tolerance code $\pm 20\% = 38$, $\pm 10\% = 36$, $\pm 5\% = 33$
- (1) The surface temperature during operation must not exceed +100 °C
- (2) DC or low frequency RMS current (< 20 kHz)

DIMENSIONS in millimeters (inches)

DERATING DIAGRAM

RELATED DOCUMENTS

General Information

www.vishay.com/doc?22071



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