DS 030070, DS 030110

Vishay Draloric

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



www.vishay.com

QUICK REFERENCE DATA					
DESCRIPTION	VALUE				
Ceramic Class		1			
Ceramic Dielectric	R85	R85, R230			
Туре	DS 030070	DS 030110			
Voltage (V _p)	8000	12 000			
Min. Capacitance (pF)	500	800			
Max. Capacitance (pF)	800	1800			
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

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

500 pF to 1.8 nF

CAPACITANCE TOLERANCE

± 20 %; ± 10 %; ± 5 %

CERAMIC DIELECTRICS

- R85 (TCC 750 ppm/K)
- R230 (TCC 750 ppm/K)

RATED VOLTAGE

- 8.0 kV_p
- 12.0 kV_p

DIELECTRIC STRENGTH TEST

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

DISSIPATION FACTOR

Max. 0.05 % Measuring frequencies: 1 MHz (< 1 nF); 300 kHz or 100 kHz (≥ 1 nF)

INSULATION RESISTANCE

Min. 100 000 M Ω (at 25 °C)

OPERATING TEMPERATURE RANGE

-55 °C to +100 °C

Revision: 03-Sep-15

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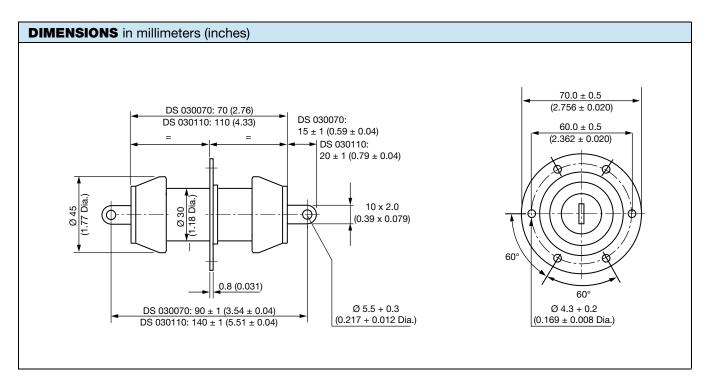
SAP PART NUMBER AND ELECTRICAL DATA							
PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV _P)	RATED POWER ⁽¹⁾ (kvar)	RATED CURRENT (A _{RMS})	FEED-THROUGH CURRENT ⁽²⁾ (A)	
TYPE DS 030070							
DS030070BP501##BJ1	R85	500	8	16	10	20	
DS030070BP601##BJ1		600					
DS030070BP801##BJ1		800					
TYPE DS 030110							
DS030110WF801##BJ2	R85	800	12	30	10	20	
DS030110WF182##BK1	R230	1800					

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)

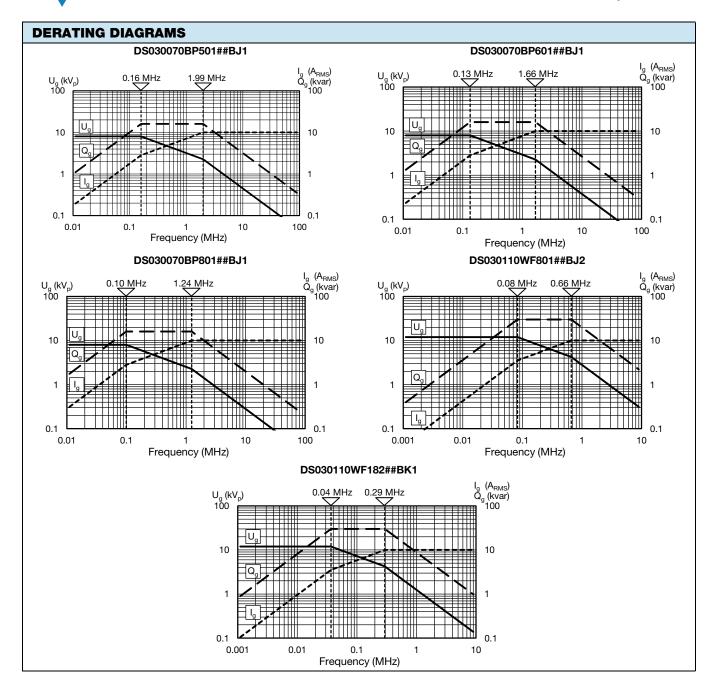


MOUNTING GUIDELINES

- The connection to one electrode must be flexible in order to prevent the generation of physical force which could damage the capacitor elements. Such forces are often generated by the dimensional differences resulting from the normal physical tolerances of these components.
- The capacitor elements must not be used as a mechanical support for other devices or components.

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RELATED DOCUMENTS	
General Information	www.vishay.com/doc?22071

ISHAY

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