DB 050110, DB 050180

Vishay Draloric





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QUICK REFERENCE DATA					
DESCRIPTION	VALUE				
Ceramic Class	-	1			
Ceramic Dielectric	R85	R85, R230			
Туре	DB 050110	DB 050180			
Voltage (V _p)	15 000	20 000			
Min. Capacitance (pF)	2000	1000			
Max. Capacitance (pF)	2000	3000			
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

ACCESSORIES ADDED

All feed-through capacitors are supplied with the necessary nuts and washers to make the connection to the conductor rod.

FEATURES

- · Geometry minimizes inductance
- High voltage ratings
- 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 to 3.0 nF

CAPACITANCE TOLERANCE

± 20 %; ± 10 %

CERAMIC DIELECTRICS

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

RATED VOLTAGE

- 15 kV_p
- 20 kV_p

DIELECTRIC STRENGTH TEST

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

DISSIPATION FACTOR

Max. 0.05 % (100 kHz or 300 kHz)

INSULATION RESISTANCE

Min. 10 000 MΩ (at 25 °C)

OPERATING TEMPERATURE RANGE

-55 °C to +100 °C

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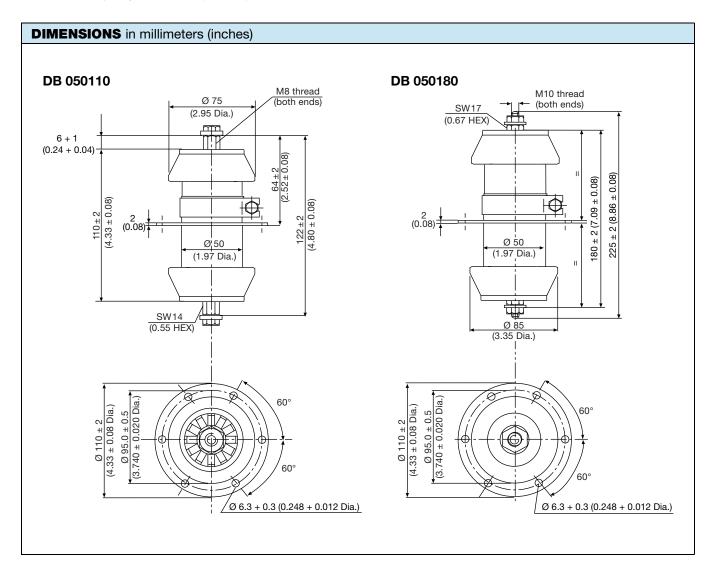
SAP PART NUMBER AND ELECTRICAL DATA							
PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV _P)	RATED POWER ⁽¹⁾ (kvar)	RATED CURRENT (A _{RMS})	FEED-THROUGH CURRENT ⁽²⁾ (A)	
TYPE DB 050110							
DB050110BJ202##BK1	R230	2000	15.0	Max. 200.0	75.0	50.0	
TYPE DB 050180							
DB050180WP102##BJ1	R85	1000		70.0	50.0		
DB050180WP152##BJ1		1500	20.0	70.0	50.0	70.0	
DB050180WP302##BK1		3000		100.0	60.0		

Notes

• ## 14th to 15th digit: capacitance tolerance code \pm 20 % = 38, \pm 10 % = 36

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

⁽²⁾ DC or low frequency RMS current (< 20 kHz)



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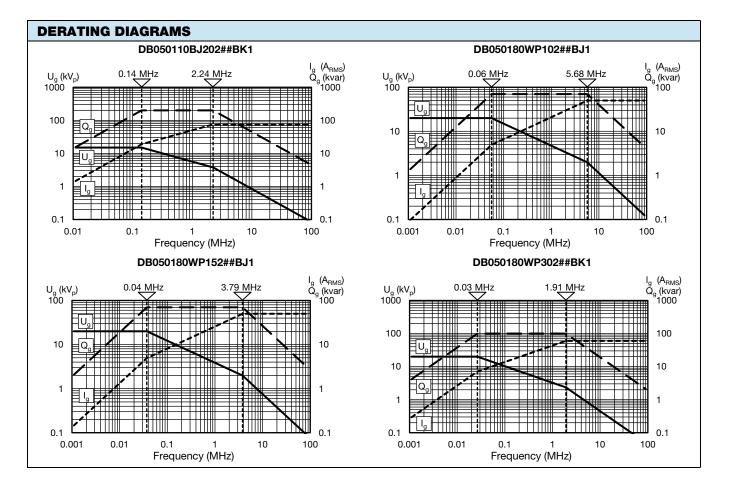
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MOUNTING GUIDELINES

- 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.
- Use two wrenches when tightening the nuts on both sides of the conductor rod. The outer electrode terminal flange of these feed-through capacitors components should be fixed after tightening the inner electrode's connection.
- Make sure that not too much force applied to the solder connections between hardware and noble metal electrode. A torque less than 5 Nm is recommended.



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

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