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Vishay Draloric

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



QUICK REFERENCE DATA							
DESCRIPTION	VALUE						
Ceramic Class	1						
Ceramic Dielectric	R16, R85, R230 R7, R16, R42, R85						
Туре	DB 030088	30088 DB 030100					
Voltage (V _p)	10 000	7000	8000				
Min. Capacitance (pF)	150	1500	100				
Max. Capacitance (pF)	2500	1500	1200				
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

- Small size
- · Geometry minimizes inductance
- Wide range of capacitance values

APPLICATIONS

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

CAPACITANCE RANGE

100 pF to 2.5 nF

CAPACITANCE TOLERANCE

± 20 %; ± 10 %; ± 5 %

CERAMIC DIELECTRICS

- R7 (TCC + 100 ppm/K)
- R16 (TCC + 100 ppm/K)
- R42 (TCC 250 ppm/K)
- R85 (TCC 750 ppm/K)
- R230 (TCC 750 ppm/K)

RATED VOLTAGE

- 7.0 kV_p
- 8.0 kV_p
- 10.0 kV_p

DIELECTRIC STRENGTH TEST

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

DISSIPATION FACTOR

R7: max. 0.07 % R16: max. 0.04 % R42, R85, R230: max. 0.05 %

Measuring frequencies:

1 MHz (< 1 nF); 300 kHz or 100 kHz (≥ 1 nF)

INSULATION RESISTANCE

Min. 50 000 M Ω (at 25 °C)

OPERATING TEMPERATURE RANGE

-55 °C to +100 °C

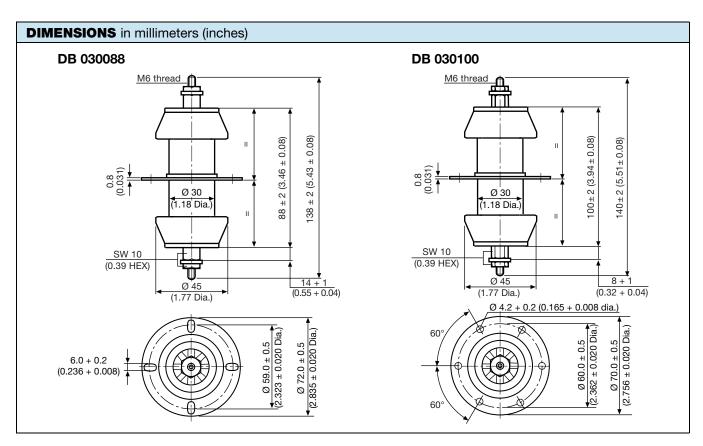
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SAP PART NUMBER AND ELECTRIAL DATA						
PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV _P)	RATED POWER ⁽¹⁾ (kvar)	RATED CURRENT (A _{RMS})	FEED-THROUGH CURRENT ⁽²⁾ (A)
TYPE DB 030088						
DB030088BH151##BG1	R16	150	10.0	80.0	30.0	30.0
DB030088BH102##BJ1	R85	1000		60.0		
DB030088BH202##BK1	R230 200	2000	10.0			
DB030088BH252##BK1	N230	2500				
TYPE DB 030100	TYPE DB 030100					
DB030100BP101##BF1	R7	100			30.0	30.0
DB030100BP121##BG1	R16	120		30.0		
DB030100BP161##BG1		160				
DB030100BP201##BG1		200				
DB030100BP251##BH1	R42	250				
DB030100BP301##BH1		300	8.0			
DB030100BP401##BH1		400	0.0			
DB030100BP501##BH1		500]			
DB030100BP601##BJ1	R85	600				
DB030100BP801##BJ1		800				
DB030100BP102##BJ1		1000				
DB030100BP122##BJ1		1200				
DB030100VY152##BJ1		1500	7.0			

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)



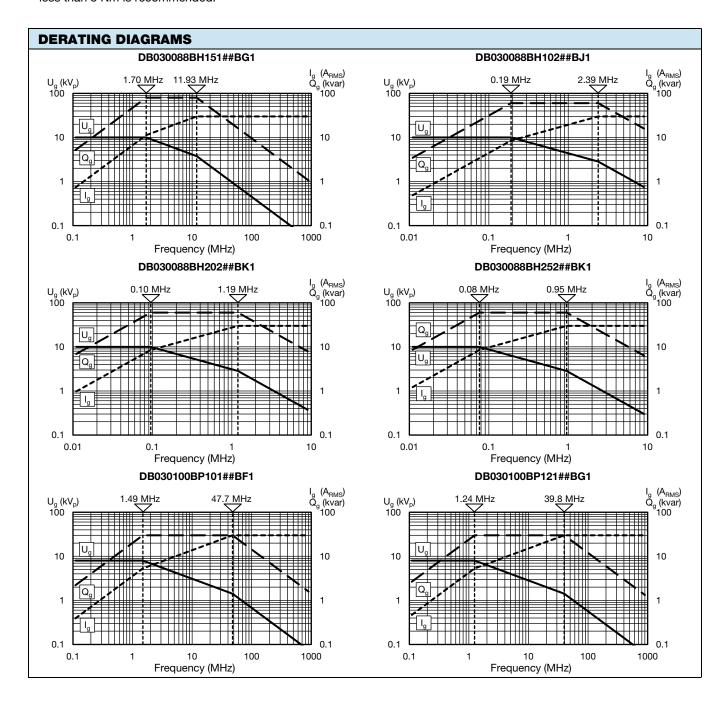
Revision: 14-Sep-15 2 Document Number: 22104

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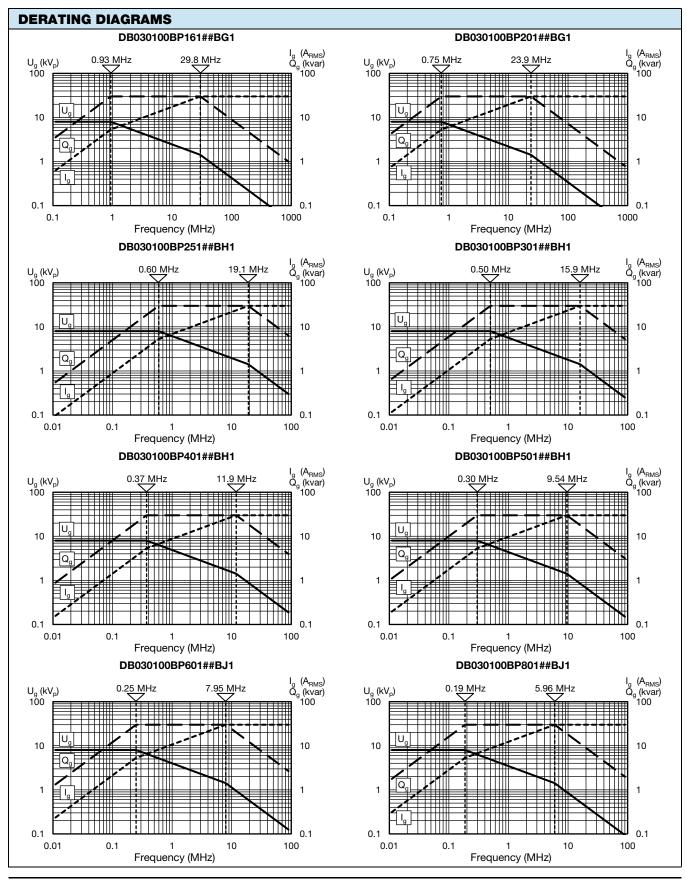
MOUNTING GUIDELINES

- 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.



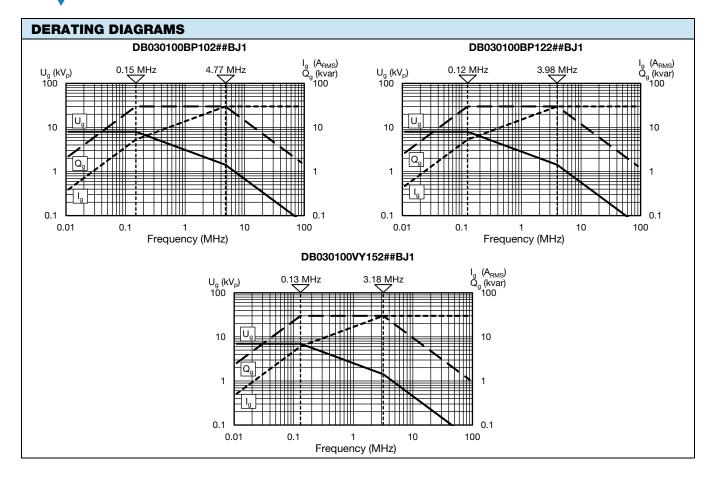






Revision: 14-Sep-15 4 Document Number: 22104

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

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