

Vishay Draloric

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



QUICK REFERENCE DATA								
DESCRIPTION	VALUE							
Ceramic Class		1						
Ceramic Dielectric	R85 R85 R85, R230			R230				
Туре	DB 016030 DB 016040 DB 016060							
Voltage (V _p)	3000	3000	3000	4000				
Min. Capacitance (pF)	200	500	1000	800				
Max. Capacitance (pF)	600	800	2500	800				
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.

MARKING

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

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

200 pF to 2.5 nF

CAPACITANCE TOLERANCE

± 20 %; ± 10 %; ± 5 %

CERAMIC DIELECTRICS

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

RATED VOLTAGE

- 3.0 kV_p
- 4.0 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. 10 000 M Ω (at 25 °C)

OPERATING TEMPERATURE RANGE

-55 °C to +100 °C

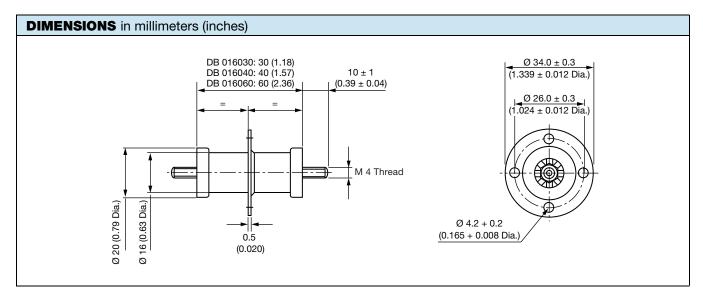


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SAP PART NUMBER AND ELECTRICAL DATA							
PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV _P)	RATED POWER ⁽¹⁾ (kvar)	RATED CURRENT (A _{RMS})	FEED-THROUGH CURRENT ⁽²⁾ (A)	
TYPE DB 016030							
DB016030BC201##BJ1	R85	200	3.0	4.0	5.0	10.0	
DB016030BC401##BJ1		400					
DB016030BC601##BJ1		600					
TYPE DB 016040							
DB016040BC501##BJ1	R85	500	3.0	5.0	5.0	10.0	
DB016040BC701##BJ1		700					
DB016040BC801##BJ1		800					
TYPE DB 016060	TYPE DB 016060						
DB016060BD801##BJ1	R85	800	4.0	7.5	7.5 5.0	10.0	
DB016060BC102##BJ1		1000	3.0				
DB016060BC122##BJ1		1200					
DB016060BC152##BJ1		1500					
DB016060BC252##BK1	R230	2500					

Notes

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

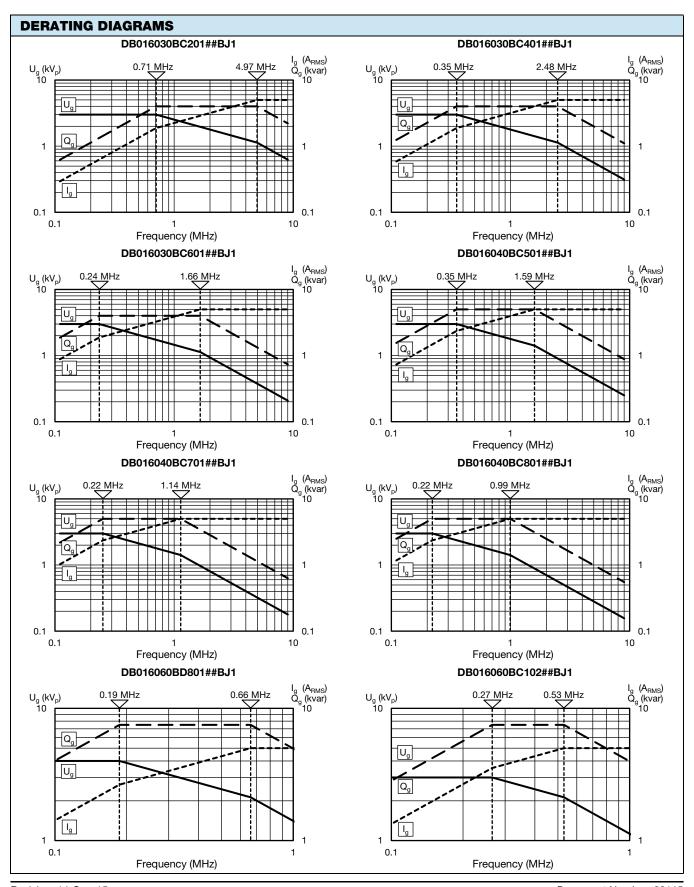


MOUNTING GUIDELINES

- 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.
- 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 3.5 Nm (31 lbf in) is recommended.

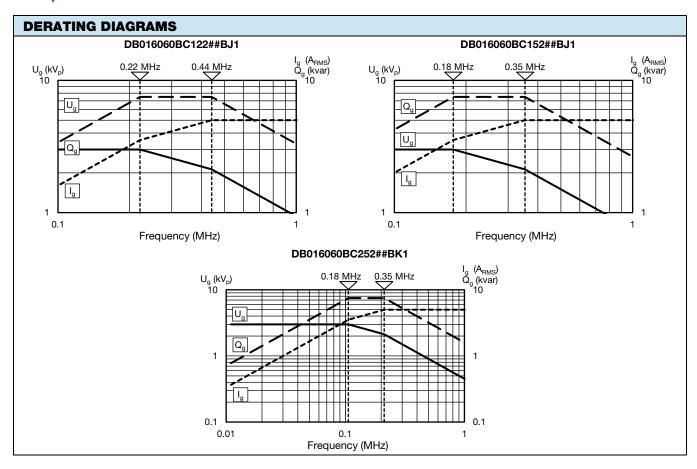


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RELATED DOCUMENTS	
General Information	www.vishay.com/doc?22071



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