Vishay Draloric





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QUICK REFERENCE DATA							
DESCRIPTION	VALUE						
Ceramic Class	1						
Ceramic Dielectric	R16, R42,	R85, R230					
Туре	DB 04	DB 045155					
Voltage (V _p)	10 000	11 000	14 000				
Min. Capacitance (pF)	800	200	1000				
Max. Capacitance (pF)	4700	3000	2700				
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
- Wide range of capacitance values
- 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

200 pF to 4.7 nF

CAPACITANCE TOLERANCE

± 20 %; ± 10 %; ± 5 %

CERAMIC DIELECTRICS

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

RATED VOLTAGE

- 10 kVp
- 11 kVp
- 14 kV_p

DIELECTRIC STRENGTH TEST

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

DISSIPATION FACTOR

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. 10 000 MΩ (at 25 °C)

OPERATING TEMPERATURE RANGE

-55 °C to +100 °C

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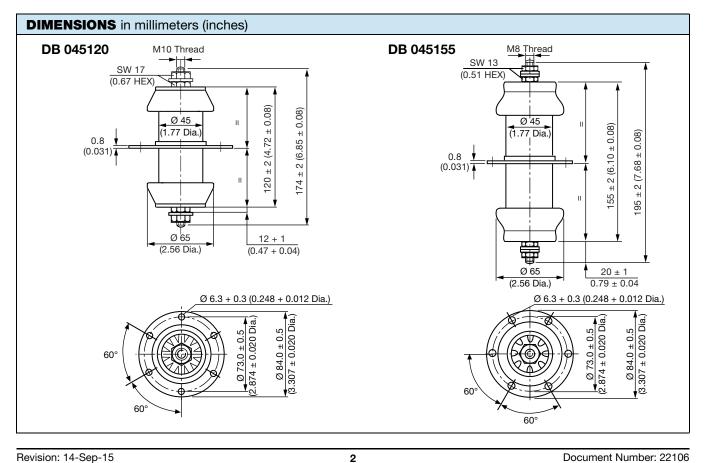
SAP PART NUMBER AND ELECTRICAL DATA							
PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV _P)	RATED POWER ⁽¹⁾ (kvar)	RATED CURRENT (A _{RMS})	FEED-THROUGH CURRENT ⁽²⁾ (A)	
TYPE DB 045120							
DB045120WE201##BG1	R16	200			50.0	50.0	
DB045120WE251##BG1		250					
DB045120WE301##BG1		300	11.0				
DB045120WE401##BH1	R42	400	11.0	60.0			
DB045120WE501##BH1		500					
DB045120WE601##BH1		600					
DB045120BH801##BH1		800	10.0				
DB045120WE102##BJ1	R85	1000	11.0				
DB045120WE122##BJ1		1200					
DB045120BH152##BJ1		1500	10.0				
DB045120WE202##BK1	R230	2000					
DB045120WE252##BK1		2500	11.0				
DB045120WE302##BK1		3000					
DB045120BH472##BK1		4700	10.0				
TYPE DB 045155							
DB045155WJ102##BJ1	R85	1000	14.0 56.0	25.0	50.0		
DB045155WJ272##BK1	R230	2700	14.0	50.0	23.0	50.0	

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)



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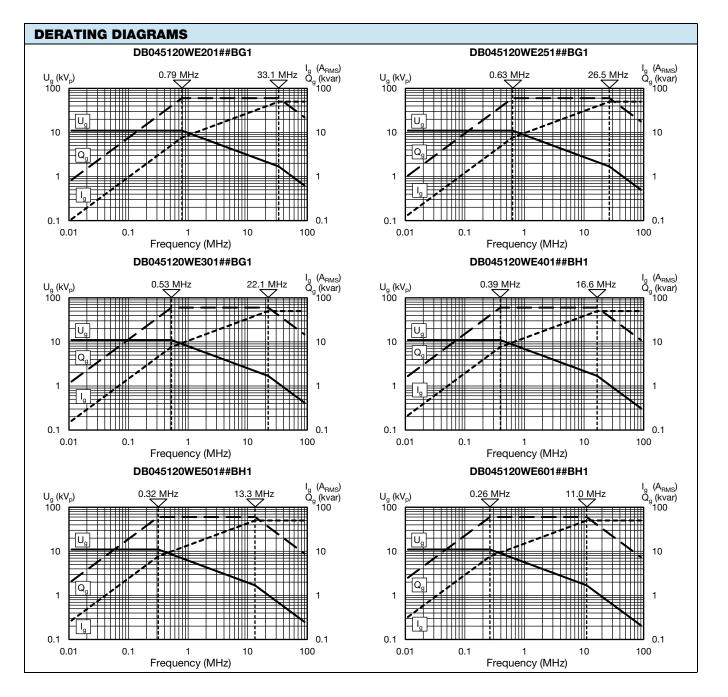
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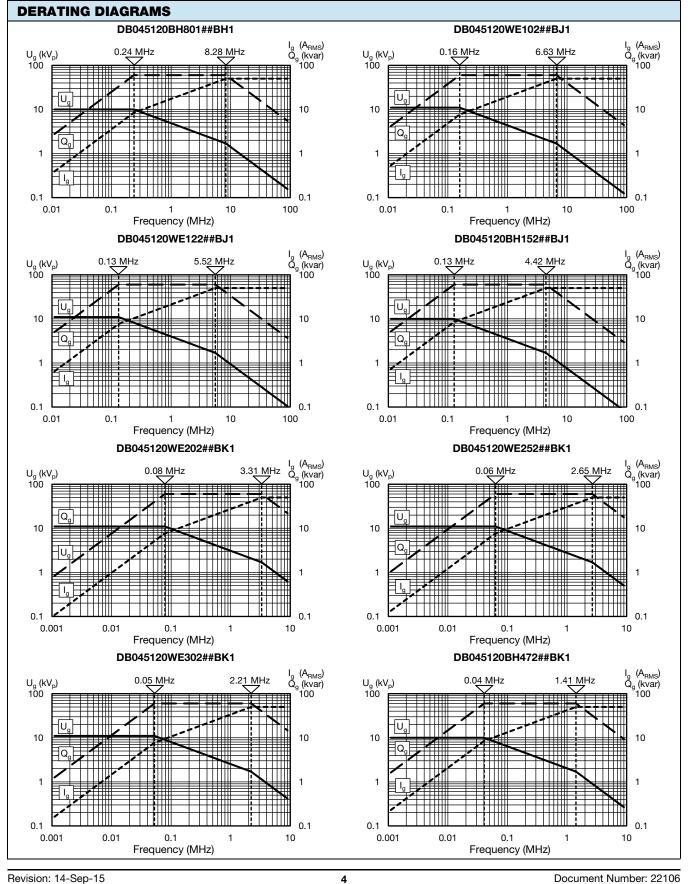
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MOUNTING GUIDELINES

- 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.



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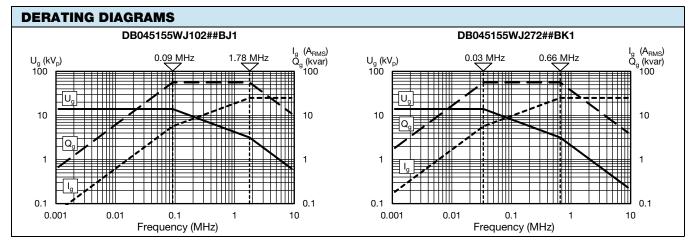
For technical questions, contact: powcap@vishay.com

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

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