

Vishay Draloric

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



QUICK REFERENCE DATA								
DESCRIPTION	VALUE							
Ceramic Class	1							
Ceramic Dielectric	R42, R85							
Туре	DWB 045120			DWB 045150				
Voltage (V _p)	8000	10 000	13 000	16 000				
Min. Capacitance (pF)	800	600	400	500				
Max. Capacitance (pF)	2500	1500	1200	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

- · 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

400 pF to 2.5 nF

CAPACITANCE TOLERANCE

± 20 %; ± 10 %; ± 5 %

CERAMIC DIELECTRICS

- R42 (TCC 250 ppm/K)
- R85 (TCC 750 ppm/K)

RATED VOLTAGE

- 8 kV_p
- 10 kV_p
- 13 kV_p
- 16 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

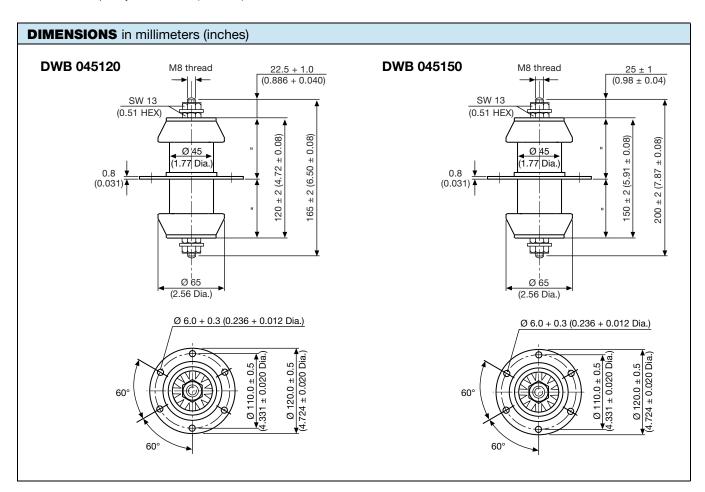


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SAP PART NUMBER AND ELECTRICAL DATA							
PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV _P)	RATED POWER ⁽¹⁾ (kvar)	RATED CURRENT (A _{RMS})	FEED-THROUGH CURRENT ⁽²⁾ (A)	
TYPE DWB 045120							
DWB45120WH401##BH1	R42	400	13.0		25.0	50.0	
DWB45120WH501##BH1		500	13.0				
DWB45120BH601##BH1		600	10.0				
DWB45120BP801##BH1		800	8.0				
DWB45120WH102##BJ1	R85	1000	13.0	56.0			
DWB45120WH122##BJ1		1200	13.0				
DWB45120BH152##BJ1		1500	10.0				
DWB45120BP202##BJ1		2000	8.0				
DWB45120BP252##BJ1		2500					
TYPE DWB 045150							
DWB45150WL501##BH1	R42	500	16.0	30.0	10.0	50.0	
DWB45150WL122##BJ1	R85	1200					

Notes

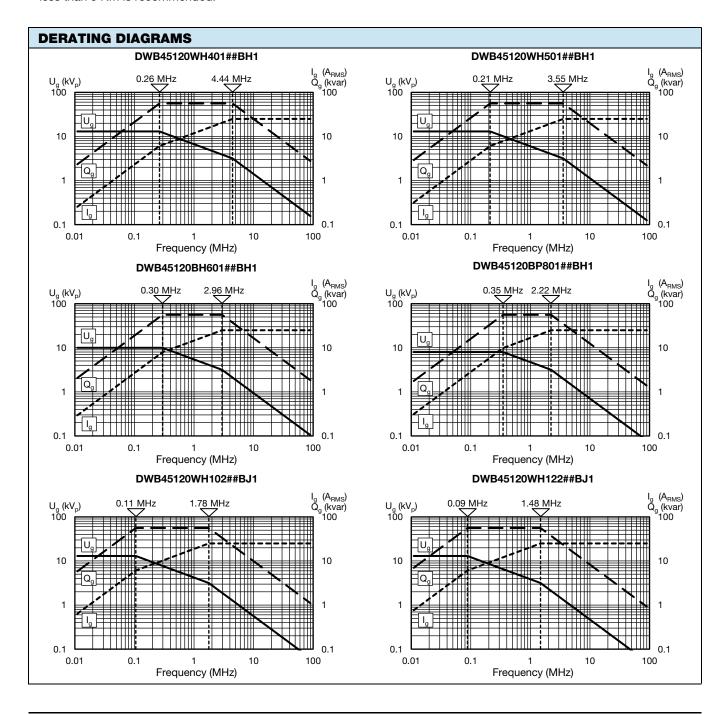
- ## 14th to 15th digit: capacitance tolerance code \pm 20 % = 38, \pm 10 % = 36, \pm 5 % = 33
- (1) The surface temperature during operation must not exceed +100 °C
- (2) DC or low frequency RMS current (< 20 kHz)



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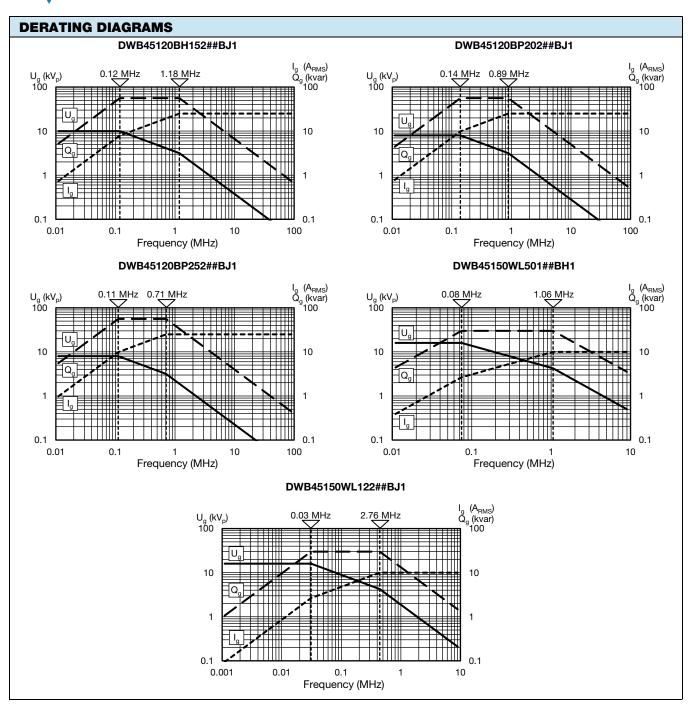
MOUNTING GUIDELINES

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



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