Vishay Draloric





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QUICK REFERENCE DATA									
DESCRIPTION	VALUE								
Ceramic Class	1								
Ceramic Dielectric	R42, R85								
Туре	D\	NB 0451	DWB 045150						
Voltage (V <sub>p</sub> )	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<sub>p</sub>
- 10 kVp
- 13 kVp
- 16 kV<sub>p</sub>

#### **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 MΩ (at 25 °C)

#### **OPERATING TEMPERATURE RANGE**

-55 °C to +100 °C

Revision: 04-Sep-15

1 For technical questions, contact: <u>powcap@vishay.com</u> Document Number: 22098



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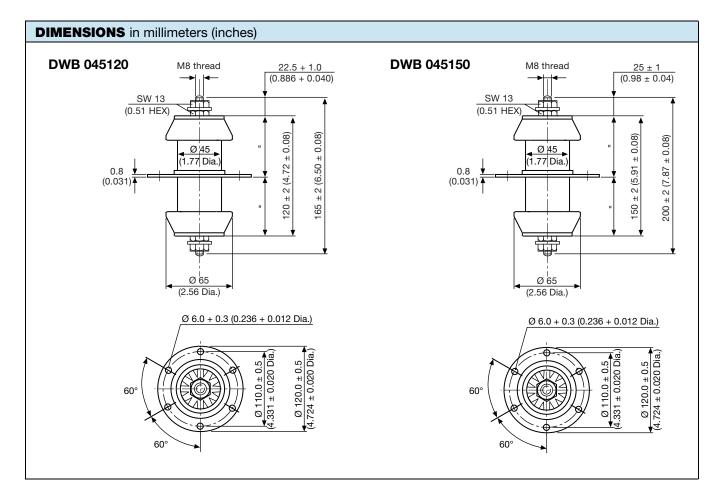
SAP PART NUMBER AND ELECTRICAL DATA									
PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV <sub>P</sub> )	RATED POWER <sup>(1)</sup> (kvar)	RATED CURRENT (A <sub>RMS</sub> )	FEED-THROUGH CURRENT <sup>(2)</sup> (A)			
TYPE DWB 045120									
DWB45120WH401##BH1	R42	400	13.0		25.0	50.0			
DWB45120WH501##BH1		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	8.0						
TYPE DWB 045150									
DWB45150WL501##BH1	R42	500	16.0	30.0	10.0	50.0			
DWB45150WL122##BJ1	R85	1200							

#### Notes

• ##  $14^{\text{th}}$  to  $15^{\text{th}}$  digit: capacitance tolerance code  $\pm 20 \% = 38, \pm 10 \% = 36, \pm 5 \% = 33$ 

<sup>(1)</sup> The surface temperature during operation must not exceed +100 °C

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



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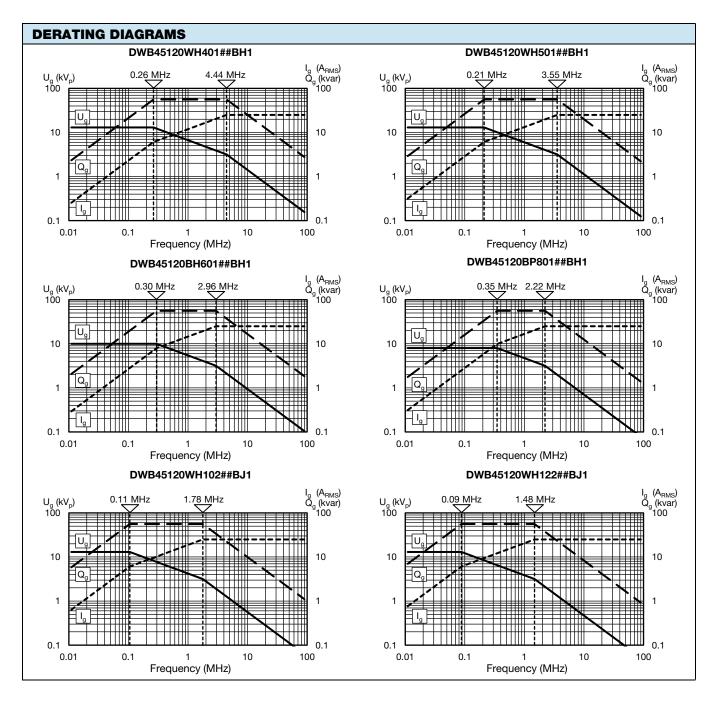
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#### **MOUNTING GUIDELINES**

- 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.



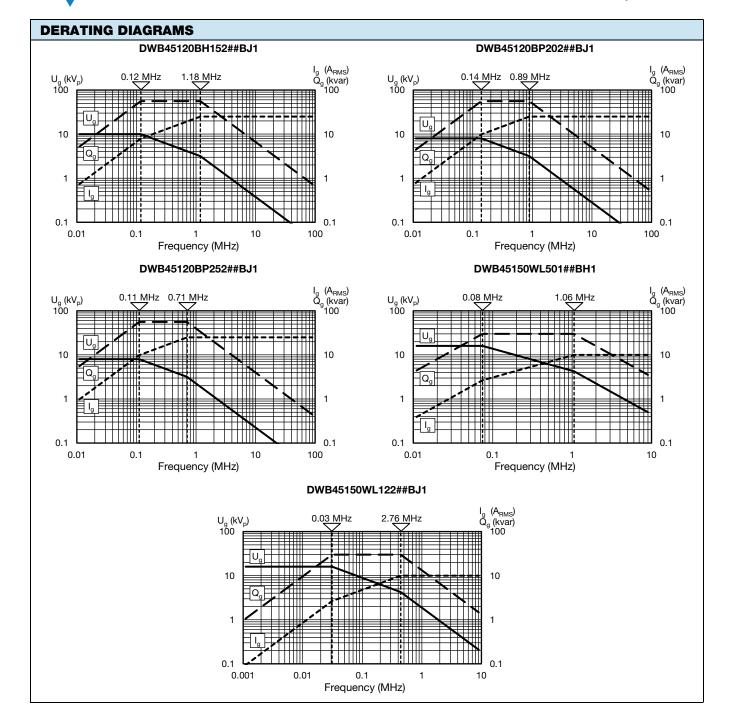
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# RELATED DOCUMENTS General Information www.vishay.com/doc?22071

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