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Vishay Draloric

RF Power Feed-Through Capacitors with Mounting Tags, Class 1 Ceramic



QUICK REFERENCE DATA							
DESCRIPTION	VALUE						
Ceramic Class	1						
Ceramic Dielectric	R42, R85						
Туре	DWA 045120			DWA 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.

For higher feed-through current, an additional feed-through conductor must be provided.

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

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

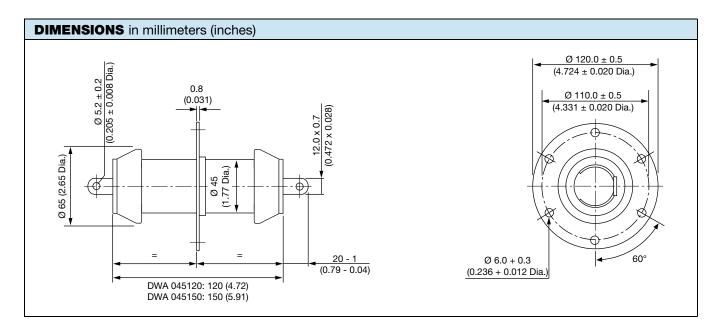
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SAP PART NUMBER AND ELECTRICAL DATA							
PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV _P)	RATED POWER ⁽¹⁾ (kvar)	RATED CURRENT (A _{RMS})	FEED-THROUGH CURRENT (2) (A)	
TYPE DWA 045120							
DWA45120WH401##BH1	R42	400	13.0		25.0	10.0	
DWA45120WH501##BH1		500	13.0				
DWA45120BH601##BH1		600	10.0				
DWA45120BP801##BH1		800	8.0				
DWA45120WH102##BJ1	R85	1000	13.0	56.0			
DWA45120WH122##BJ1		1200	13.0				
DWA45120BH152##BJ1		1500	10.0				
DWA45120BP202##BJ1		2000	8.0				
DWA45120BP252##BJ1		2500					
TYPE DWA 045150							
DWA45150WL501##BH1	R42	500	16.0	30.0	10.0	10.0	
DWA45150WL122##BJ1	R85	1200	10.0				

Notes

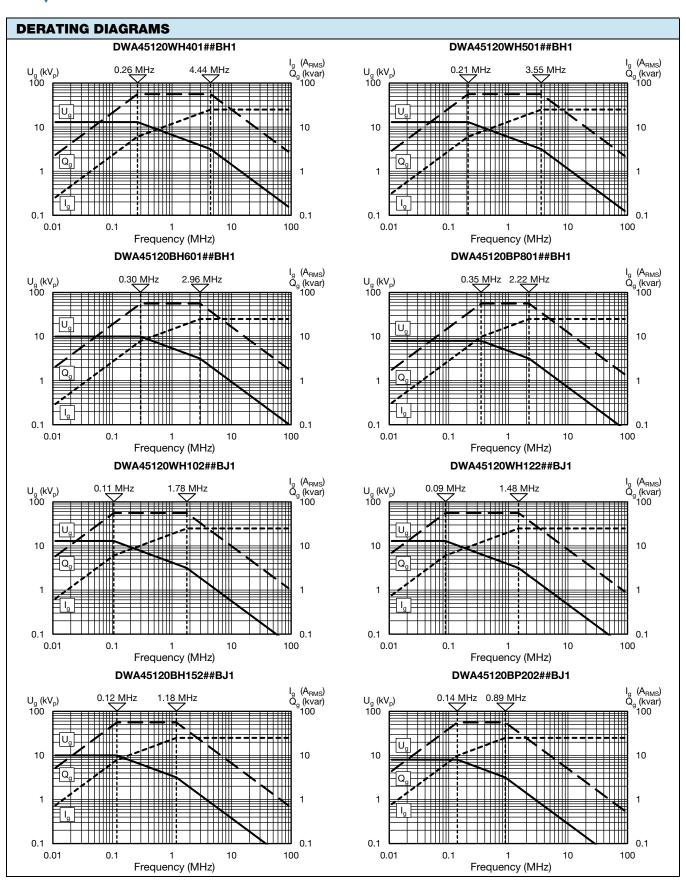
- ## 14th to 15th digit: capacitance tolerance code \pm 20 % = 38, \pm 10 % = 36, \pm 5 % = 33
- (1) The surface temperature during operation must not exceed +100 °C
- (2) DC or low frequency RMS current (< 20 kHz)



MOUNTING GUIDELINES

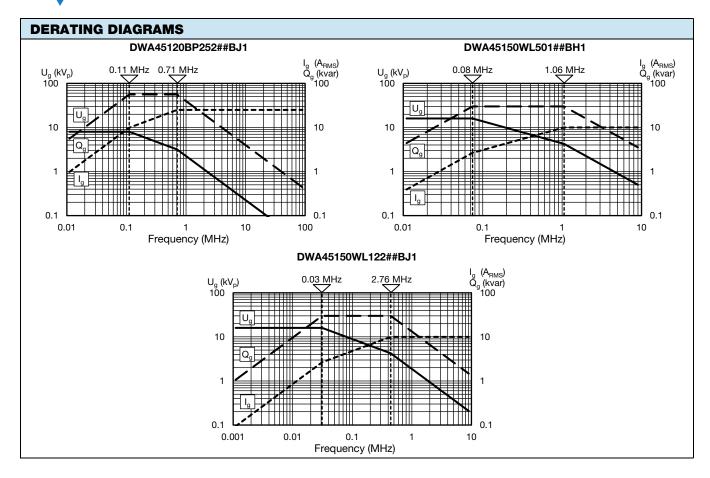
- The connection to one electrode must be flexible in order to prevent the generation of physical force which could damage the capacitor elements. Such forces are often generated by the dimensional differences resulting from the normal physical tolerances of these components.
- The capacitor elements must not be used as a mechanical support for other devices or components.

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



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