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

QUICK REFERENCE DATA				
DESCRIPTION	VALUE			
Ceramic Class	1			
Ceramic Dielectric	R42, R85			
Type	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 MΩ (at 25 °C)

OPERATING TEMPERATURE RANGE

-55 °C to +100 °C

For technical questions, contact: powcap@vishay.com

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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	56.0	25.0	10.0
DWA45120WH501##BH1		500				
DWA45120BH601##BH1		600	10.0			
DWA45120BP801##BH1		800	8.0			
DWA45120WH102##BJ1	R85	1000	13.0			
DWA45120WH122##BJ1		1200				
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				

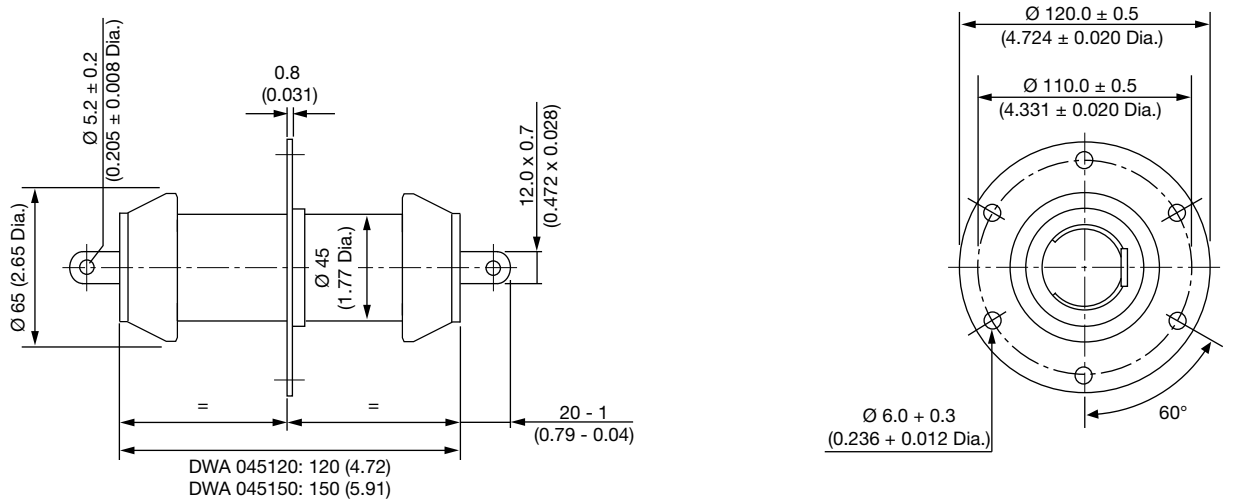
Notes

- ## 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)

DIMENSIONS in millimeters (inches)



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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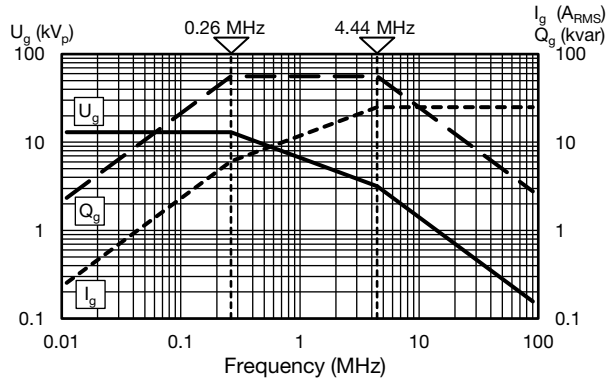
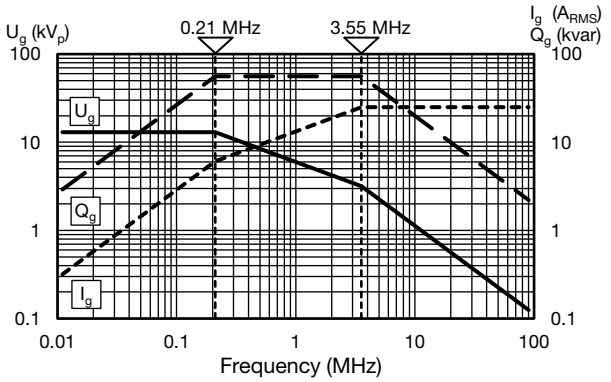
DERATING DIAGRAMS

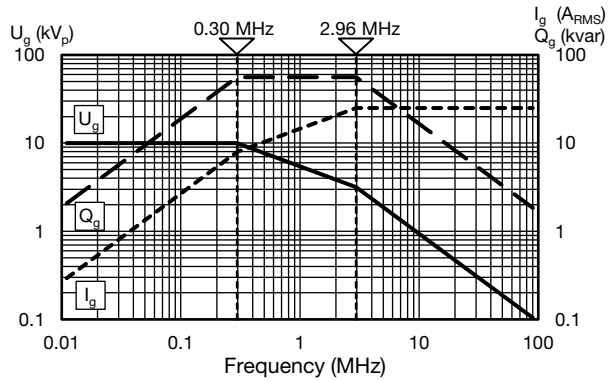
DWA45120WH401##BH1



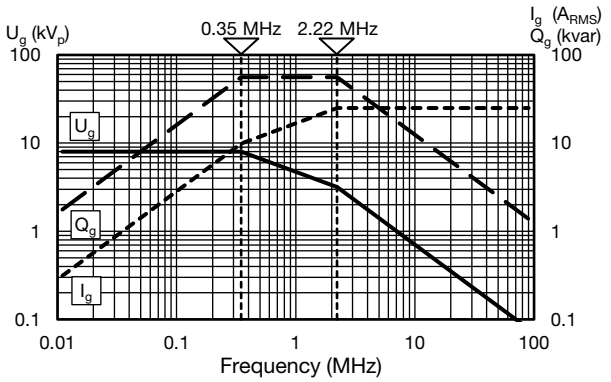
DWA45120WH501##BH1



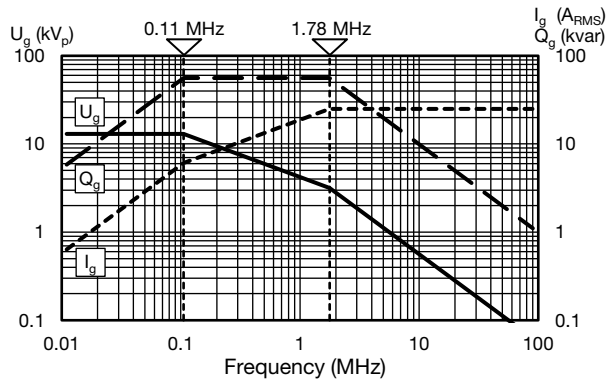
DWA45120BH601##BH1



DWA45120BP801##BH1



DWA45120WH102##BJ1



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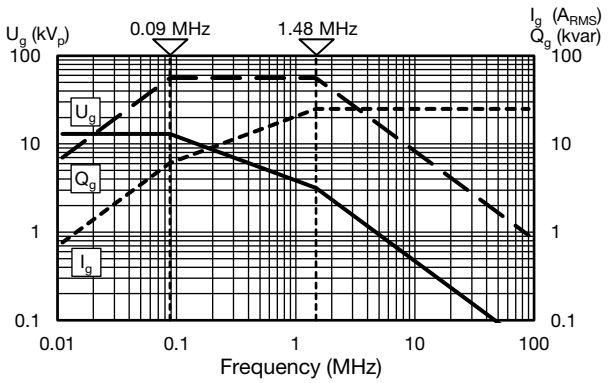

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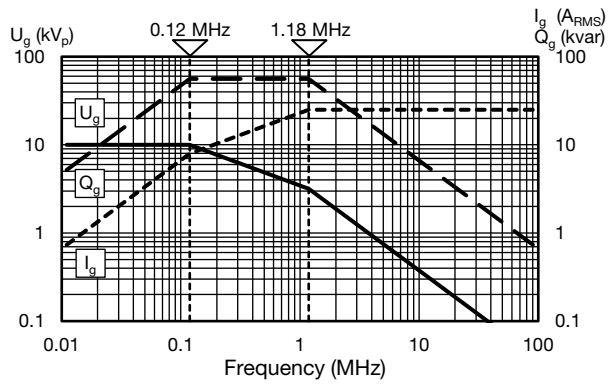
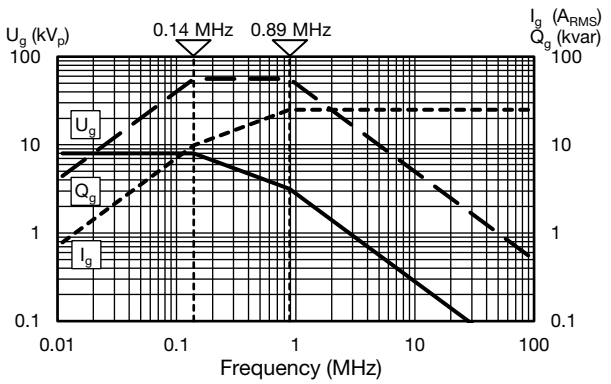


DWA45120BP202##BJ1



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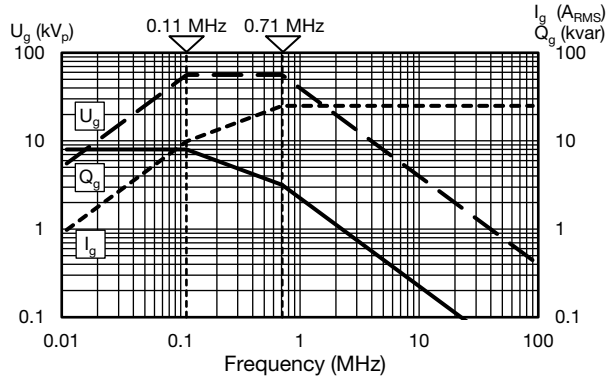
DERATING DIAGRAMS

DWA45120BP252##BJ1



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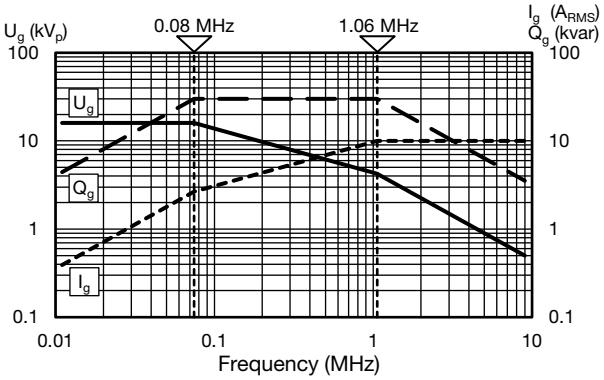

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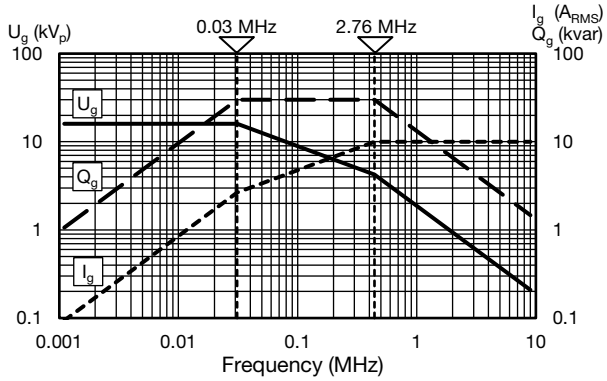

RELATED DOCUMENTS

General Information	www.vishay.com/doc?22071

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