

RF Power Pot Capacitors with Mounting Tags, Class 1 Ceramic



FEATURES

- High reliability
- Multiple terminals
- Wide range of capacitance values

APPLICATIONS

- Induction and dielectric heating
- Antenna units
- Filter, bypass, and coupling circuits

QUICK REFERENCE DATA											
DESCRIPTION	VALUE										
Ceramic Class	1										
Ceramic Dielectric	R7, R16, R42, R85			R7, R42, R85				R7, R16, R42, R85, R230			
Type	TA 045090, TB 045090, TC 045090, TD 045090, TE 045090			TA 045120, TB 045120, TC 045120, TD 045120, TE 045120				TA 045150, TB 045150, TC 045150, TD 045150, TE 045150			
Voltage (V _p)	9000	10 000	10 000	11 000	12 000	13 000	11 000	12 000	13 000	14 000	
Min. Capacitance (pF)	2500	60	1600	160	80	50	5000	2000	400	60	
Max. Capacitance (pF)	2500	1600	1600	500	100	1000	5000	2000	1600	4000	
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 rim is additionally glazed.

MARKING

Type designator, capacitance value and tolerance, rated peak voltage, ceramic material code, production date code, manufacturer logo.

CAPACITANCE RANGE

50 pF to 5.0 nF

CAPACITANCE TOLERANCE

± 20 %; ± 10 %; ± 5 %

DIELECTRIC STRENGTH TEST

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

INSULATION RESISTANCE

Min. 100 000 MΩ (at 25 °C)

CERAMIC DIELECTRICS

- R7 (TCC + 100 ppm/K)
- R16 (TCC + 100 ppm/K)
- R42 (TCC - 250 ppm/K)
- R85 (TCC - 750 ppm/K)
- R230 (TCC - 750 ppm/K)

RATED VOLTAGE

- 9.0 kV_p
- 10.0 kV_p
- 11.0 kV_p
- 12.0 kV_p
- 13.0 kV_p
- 14.0 kV_p

DISSIPATION FACTOR

- R7: max. 0.07 %
- R16: max. 0.04 %
- R42, R85, R230: max. 0.05 %

Measuring frequencies:

1 MHz (< 1 nF); 300 kHz or 100 kHz (≥ 1 nF)

OPERATING TEMPERATURE RANGE

-55 °C to +100 °C

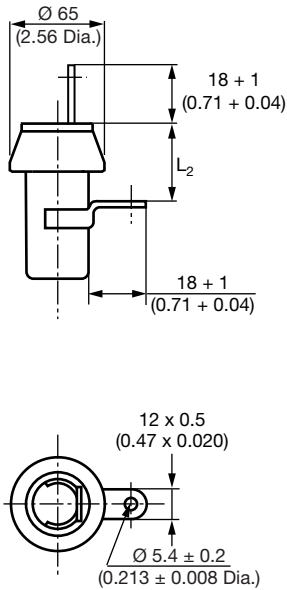
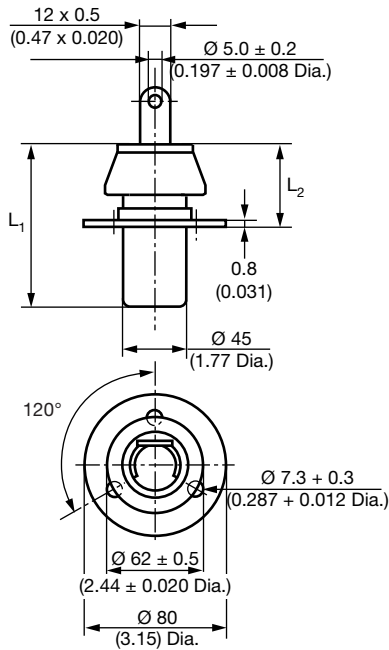
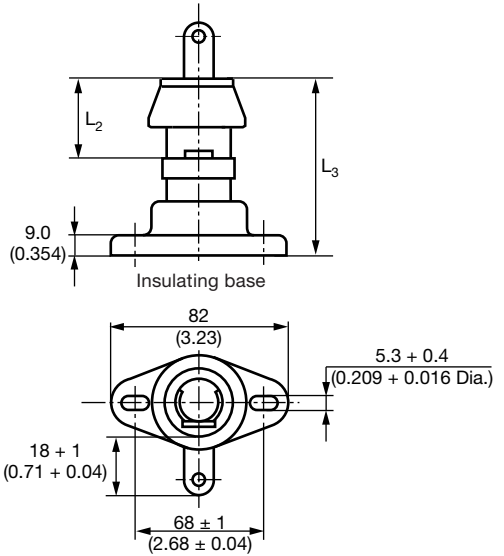
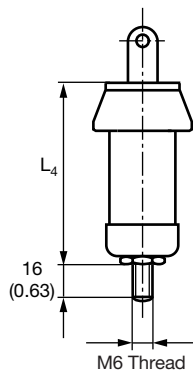
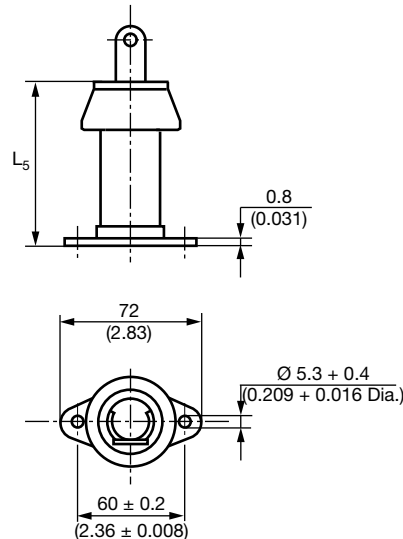


SAP PART NUMBER AND ELECTRICAL DATA						
PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV _p)	RATED POWER ⁽¹⁾ (kvar)	RATED CURRENT (A _{rms})	
TYPE T. 045090						
T#045090BH600##BF1	R7	60	10	22	12	
T#045090BH800##BF1		80				
T#045090BH101##BF1		100				
T#045090BH161##BF1		160				
T#045090BH201##BG1	R16	200				
T#045090BH251##BG1		250				
T#045090BH301##BG1		300				
T#045090BH401##BH1	R42	400				
T#045090BH501##BH1		500				
T#045090BH601##BH1		600				
T#045090BH801##BJ1	R85	800		9.0		28
T#045090BH102##BJ1		1000				
T#045090BH162##BJ1		1600				
T#045090WC252##BJ1		2500				
TYPE T. 045120						
T#045120WH500##BF1	R7	50	13	28	10	
T#045120WH600##BF1		60	12			
T#045120WF800##BF1		80				
T#045120WF101##BF1		100				
T#045120WE161##BF1		160	11			
T#045120WH251##BH1	R42	250	13			
T#045120WH301##BH1		300				
T#045120WH401##BH1		400				
T#045120WE501##BH1		500		11		
T#045120WH601##BJ1	R85	600	13	35		
T#045120WH801##BJ1		800				
T#045120WH102##BJ1		1000				
T#045120BH162##BJ1		1600			10	
TYPE T. 045150						
T#045150WJ600##BF1	R7	60	14	35	12	
T#045150WJ800##BF1		80				
T#045150WJ101##BF1		100				
T#045150WJ201##BG1	R16	200				
T#045150WJ301##BH1	R42	300				13
T#045150WH401##BH1		400				
T#045150WH501##BH1		500				
T#045150WH601##BH1		600				
T#045150WJ801##BJ1	R85	800	14	42		
T#045150WH102##BJ1		1000	13			
T#045150WH162##BJ1		1600				
T#045150WF202##BJ1		2000				12
T#045150WJ302##BK1		R230	3000		14	
T#045150WJ402##BK1	4000					
T#045150WE502##BK1	5000		11			

Notes

- # 2nd digit: code letter of the terminal version A, B, C, D, E
- ## 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

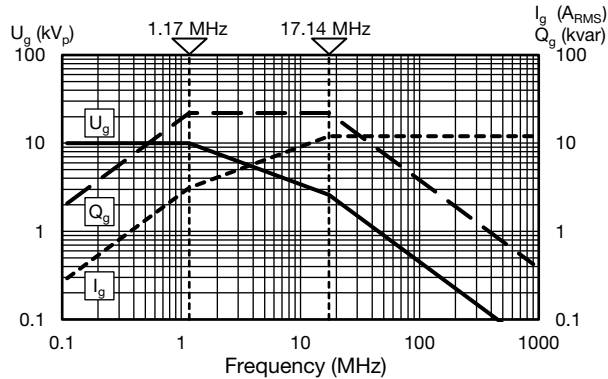
DIMENSIONS in millimeters (inches)

TA

TB

TC

TD

TE


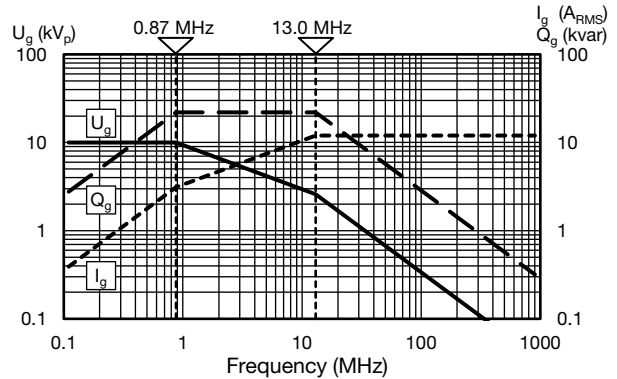
TYPE	T. 045090	T. 045120	T. 045150
Length L_1	90 (3.54)	120 (4.72)	150 (5.91)
Length L_2	45 ± 2 (1.77 ± 0.08)	60 ± 2 (2.36 ± 0.08)	75 ± 2 (2.95 ± 0.08)
Length L_3	96 ± 2 (3.78 ± 0.08)	126 ± 2 (4.96 ± 0.08)	156 ± 2 (6.14 ± 0.08)
Length L_4	97 (3.82)	127 (5.00)	157 (6.18)
Length L_5	92 ± 2 (3.62 ± 0.08)	122 ± 2 (4.80 ± 0.08)	152 ± 2 (5.98 ± 0.08)

DERATING DIAGRAMS

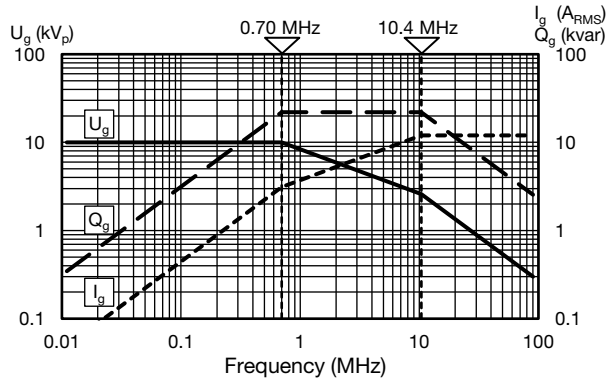
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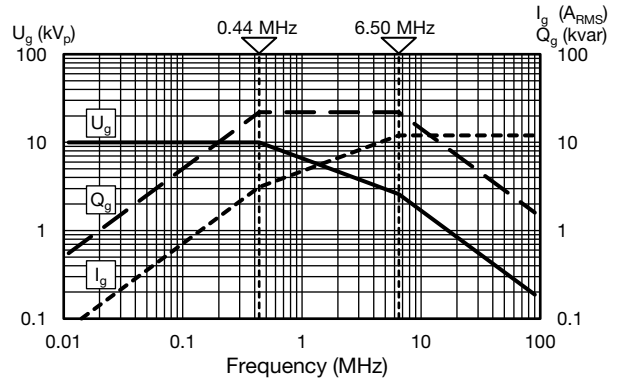
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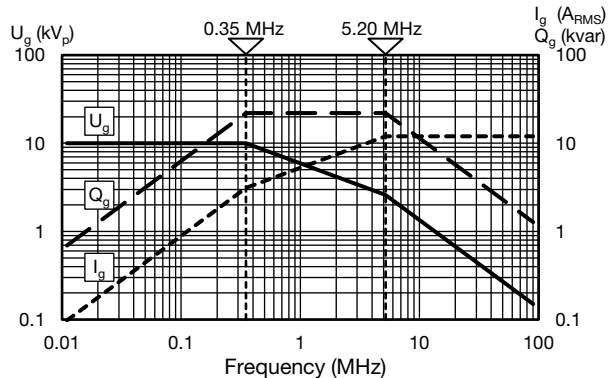
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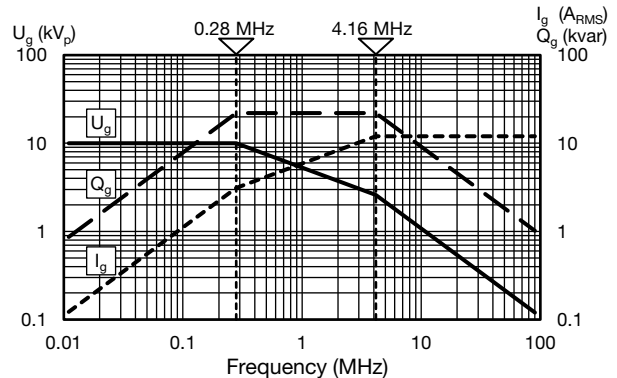
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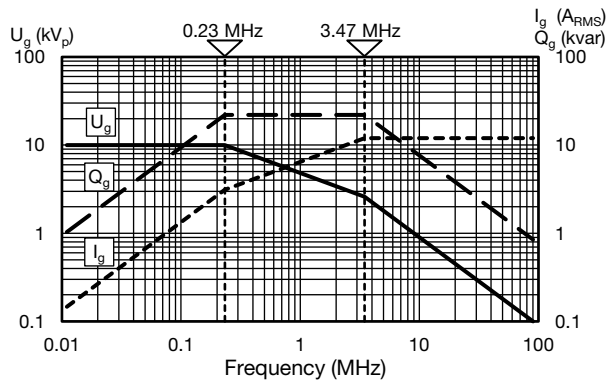
T#045090BH201##BG1



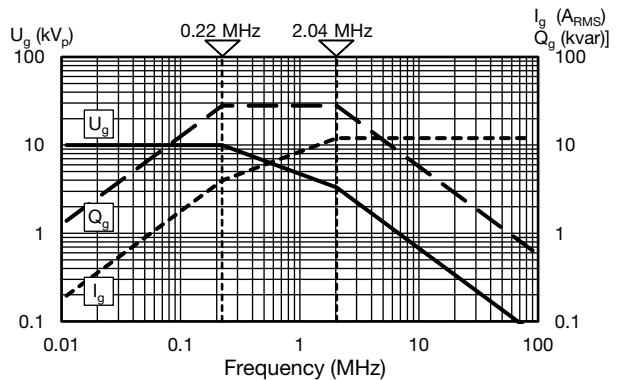
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T#045090BH301##BG1



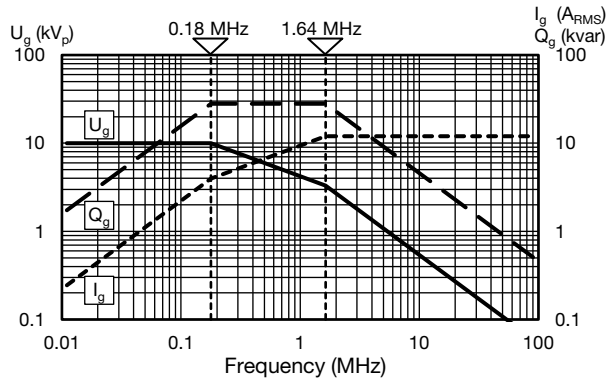
T#045090BH401##BH1



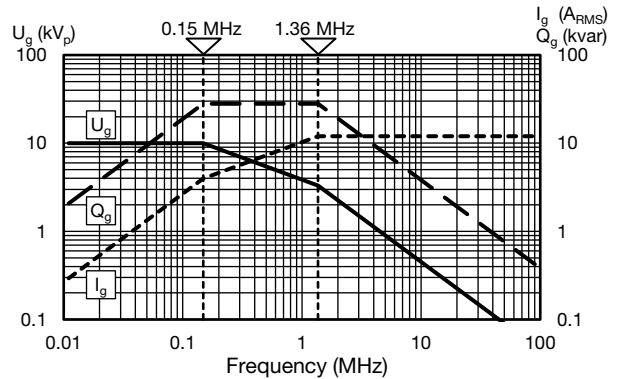


DERATING DIAGRAMS

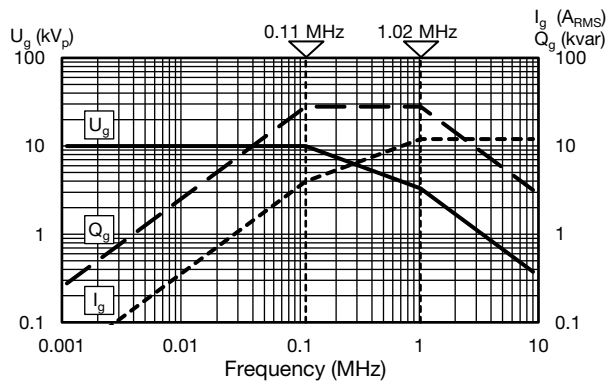
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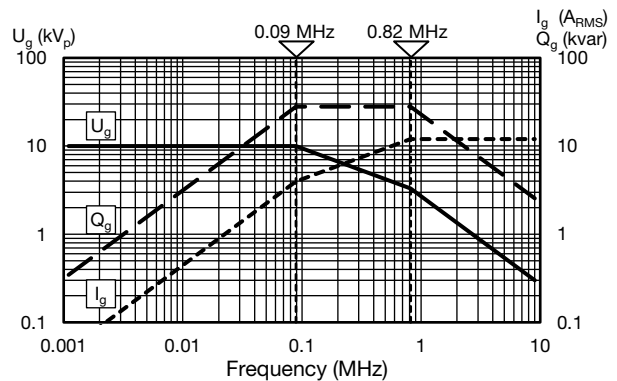
T#045090BH601##BH1



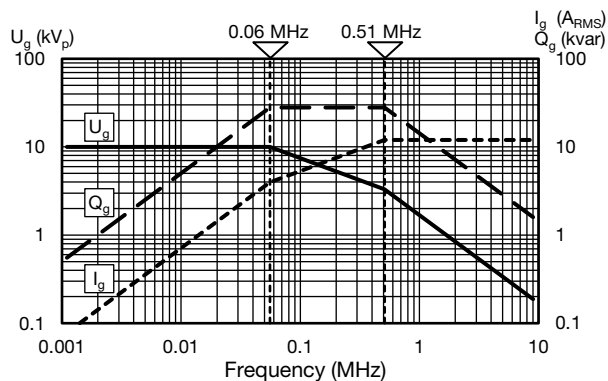
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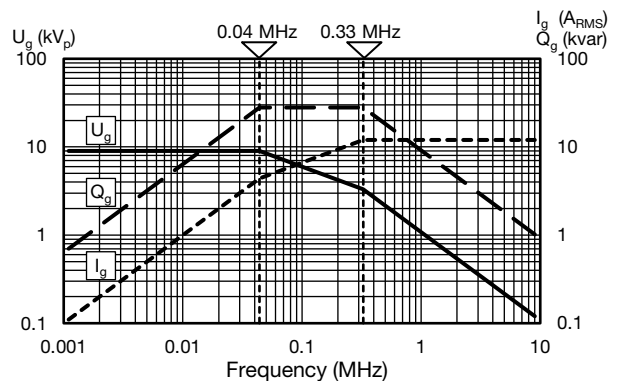
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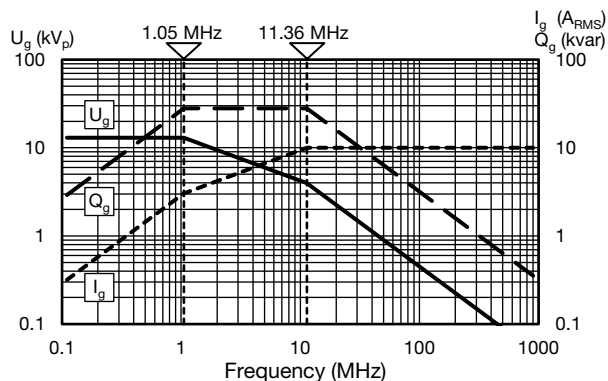
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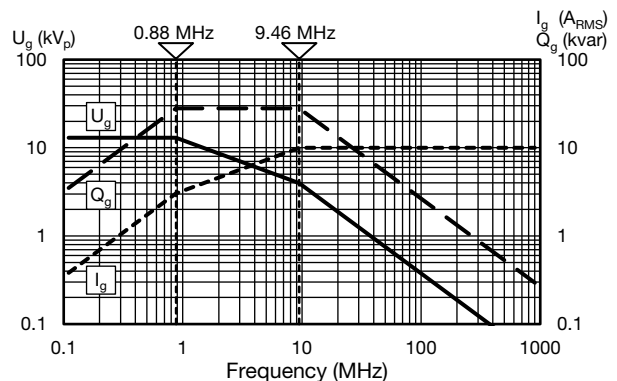
T#045090WC252##BJ1



T#045120WH500##BF1

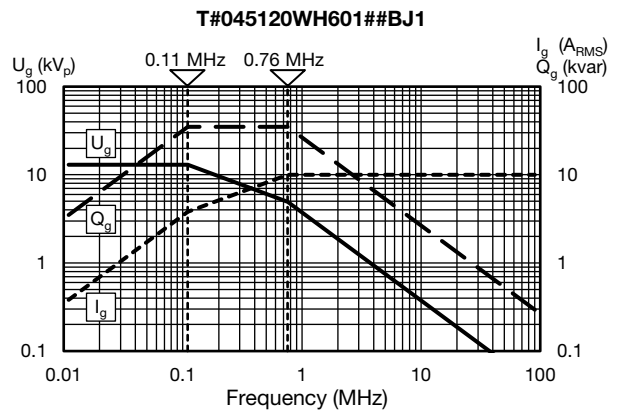
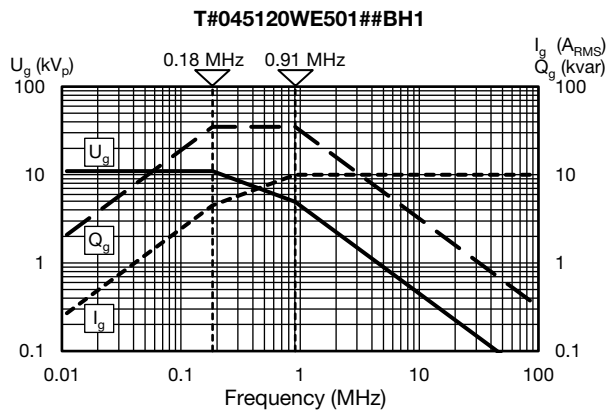
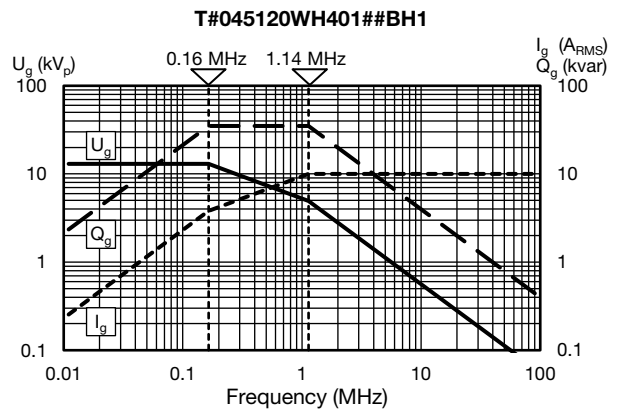
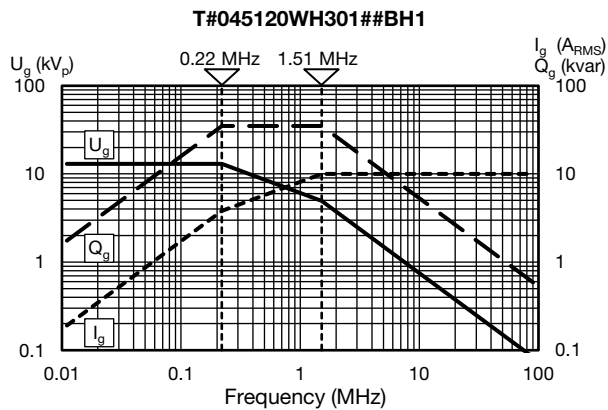
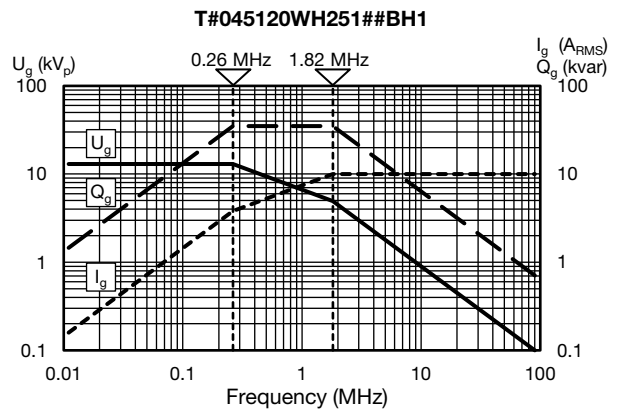
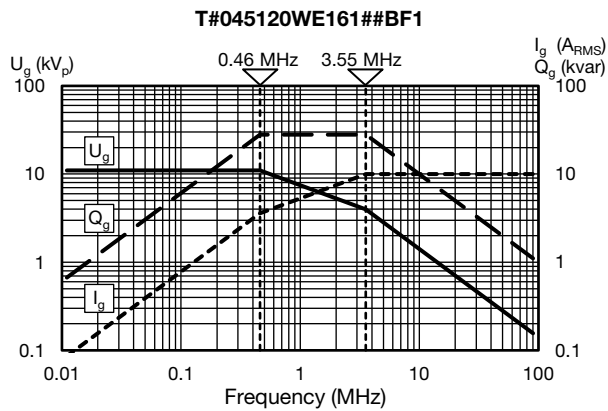
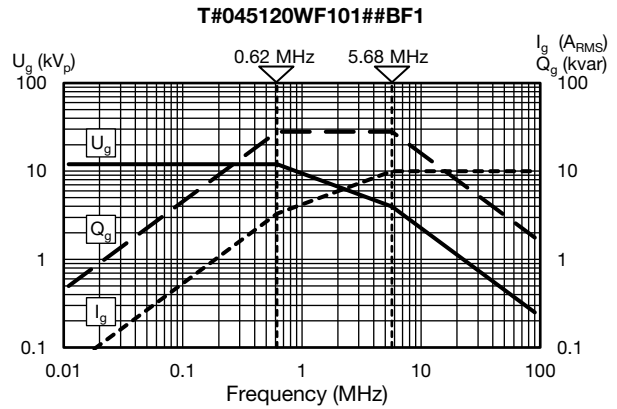
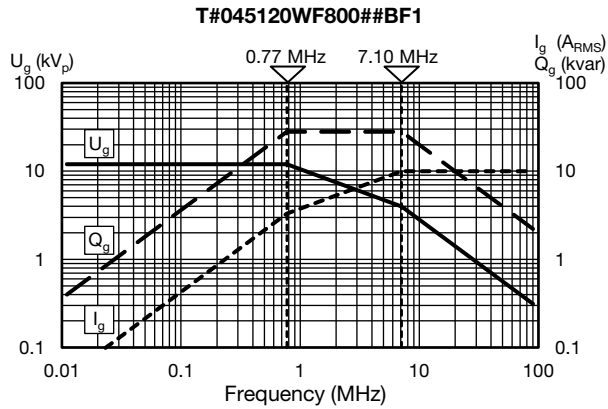


T#045120WH600##BF1





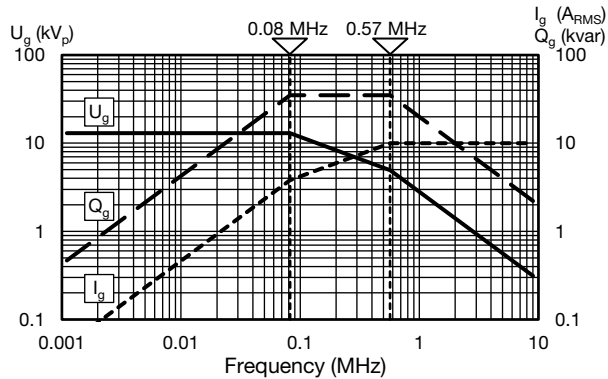
DERATING DIAGRAMS



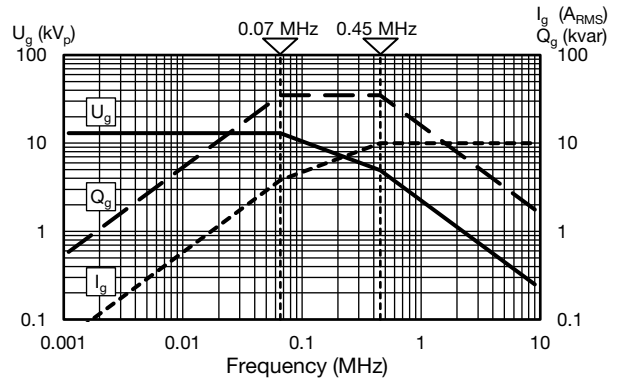


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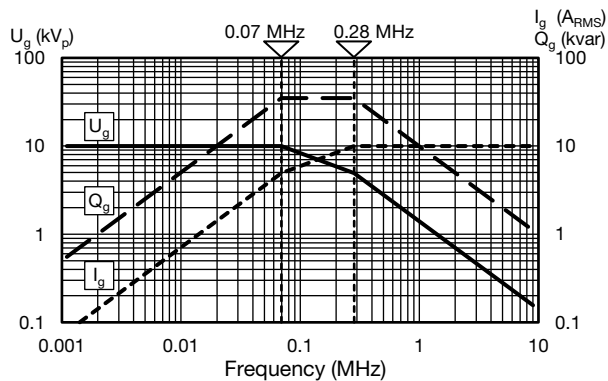
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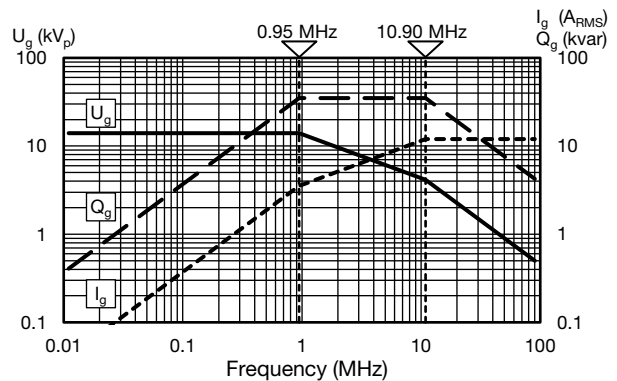
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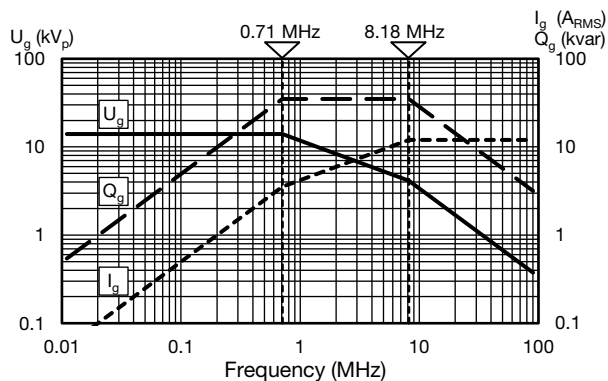
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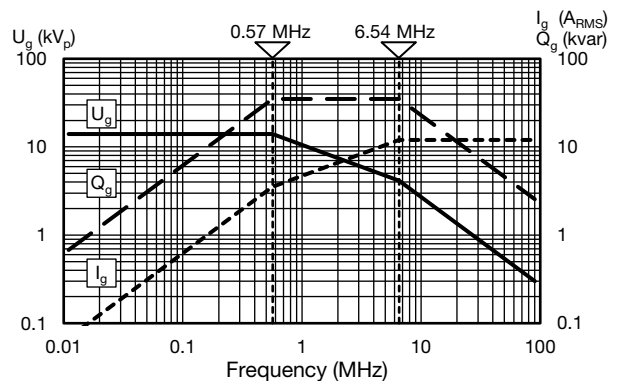
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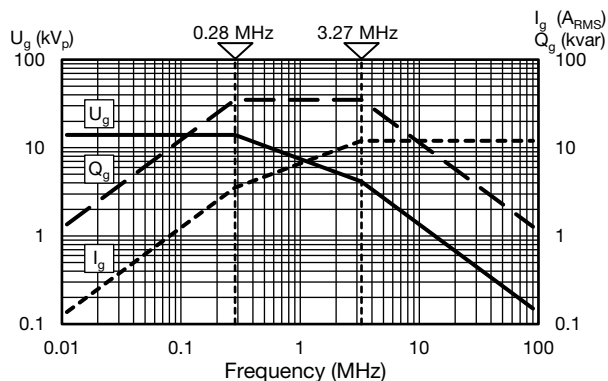
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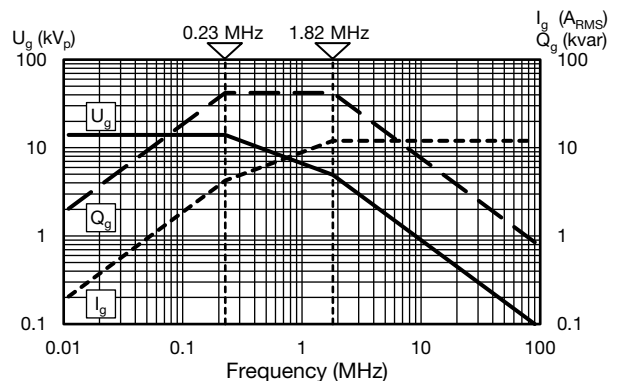
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T#045150WJ201##BG1



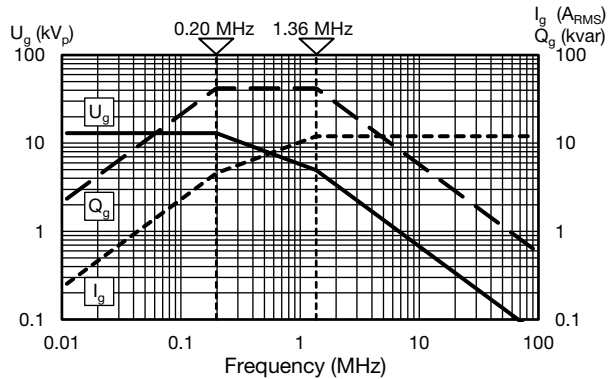
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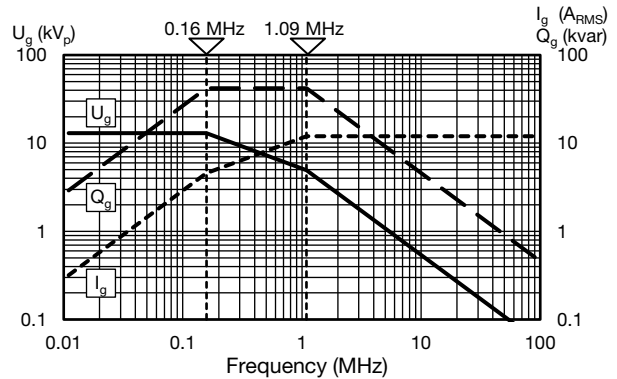


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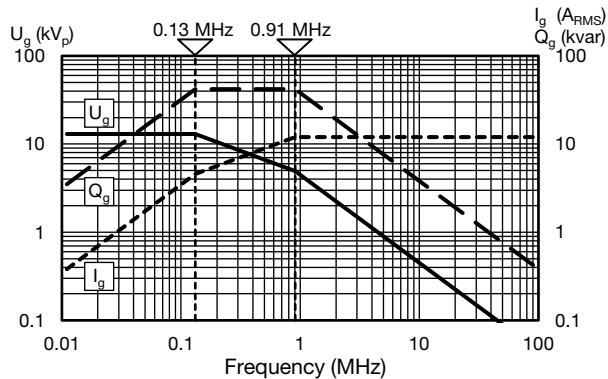
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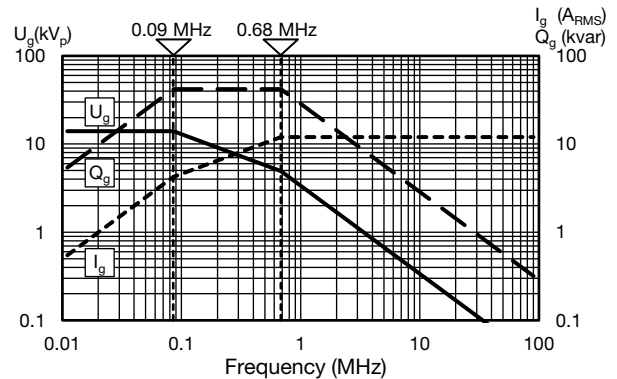
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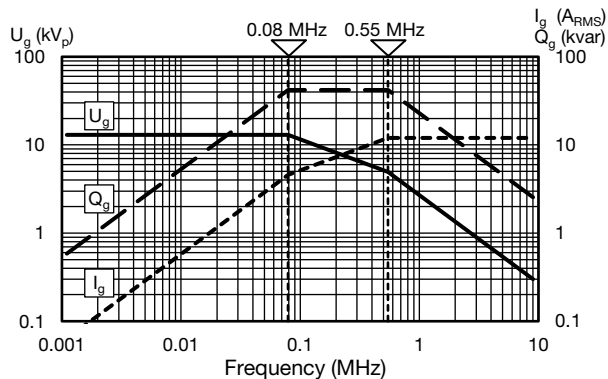
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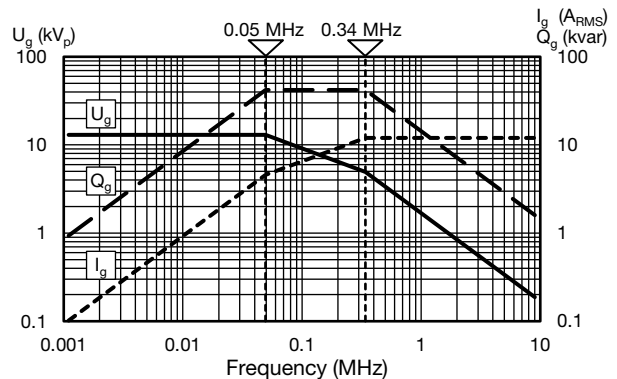
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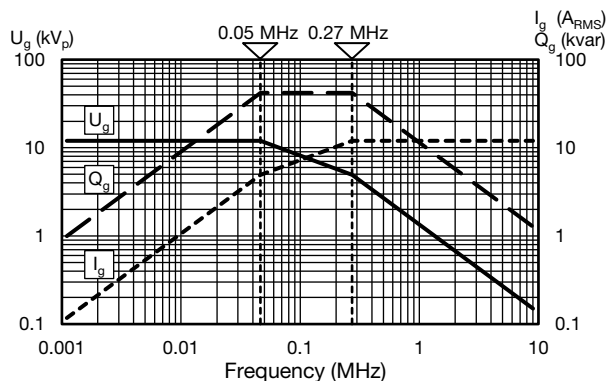
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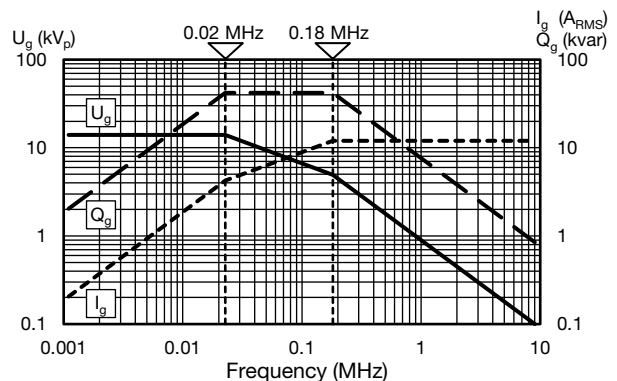
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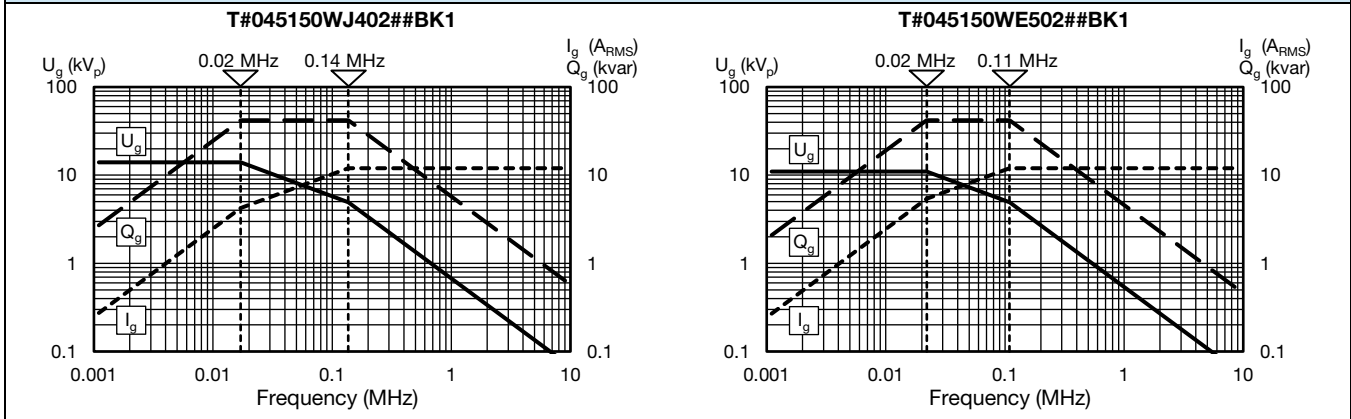


T#045150WJ302##BK1





DERATING DIAGRAMS



RELATED DOCUMENTS

General Information	www.vishay.com/doc?22071
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