

RF Power Tubular Capacitors with Screw Terminals and Mounting Tags, Class 1 Ceramic



QUICK REFERENCE DATA

DESCRIPTION	VALUE			
Ceramic Class	1			
Ceramic Dielectric	R7, R16, R42, R85, R230			
Type	RD 030100		RD 045120	
Voltage (V _p)	7000	8000	10 000	11 000
Min. Capacitance (pF)	1500	100	800	200
Max. Capacitance (pF)	1500	1200	4700	3000
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 laquered

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 capacitors are supplied with the necessary Hex. nuts and washers to make the connection to the conductor rod.

FEATURES

- High voltage ratings
- High reliability
- Wide range of capacitance values

APPLICATIONS

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

CAPACITANCE RANGE

100 pF to 4.7 nF

CAPACITANCE TOLERANCE

± 20 %; ± 10 %; ± 5 %

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

- 7.0 kV_p
- 8.0 kV_p
- 10 kV_p
- 11 kV_p

DIELECTRIC STRENGTH TEST

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

DISSIPATION FACTOR

R7: Max. 0.07 % (1 MHz)

R16: Max. 0.04 % (1 MHz)

R42, R85, R230: Max. 0.05 % (1 MHz)

INSULATION RESISTANCE

Min. 100 000 MΩ (at 25 °C)

OPERATING TEMPERATURE RANGE

- 55 °C to + 100 °C



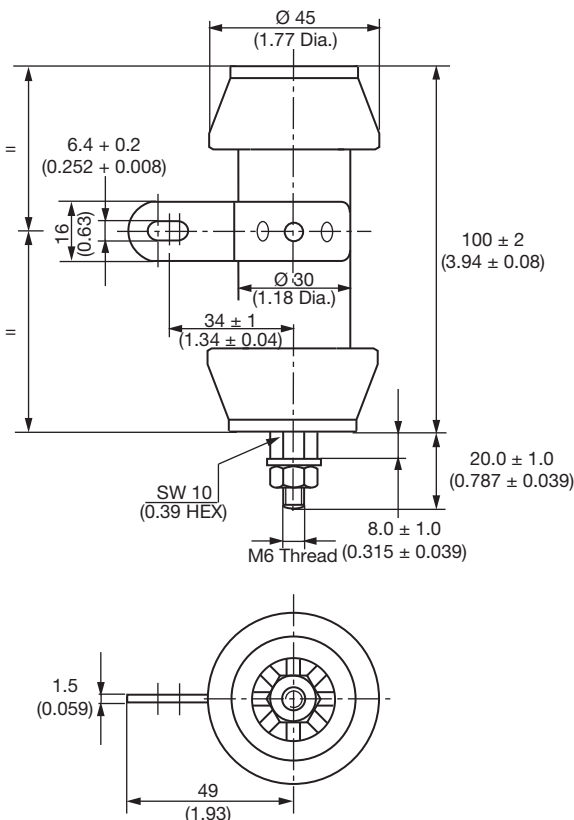
SAP PART NUMBER AND ELECTRICAL DATA					
PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV _P)	RATED POWER ⁽¹⁾ (kvar)	RATED CURRENT (A _{RMS})
TYPE RD 030100					
RD030100BP101##BF1	R7	100	8.0	30	30
RD030100BP121##BG1	R16	120			
RD030100BP161##BG1		160			
RD030100BP201##BG1		200			
RD030100BP251##BH1	R42	250			
RD030100BP301##BH1		300			
RD030100BP401##BH1		400			
RD030100BP501##BH1		500			
RD030100BP601##BJ1	R85	600			
RD030100BP801##BJ1		800			
RD030100BP102##BJ1		1000			
RD030100BP122##BJ1		1200			
RD030100VY152##BJ1		1500	7.0		
TYPE RD 045120					
RD045120WE201##BG1	R16	200	11	60	50
RD045120WE251##BG1		250			
RD045120WE301##BG1		300			
RD045120WE401##BH1	R42	400			
RD045120WE501##BH1		500			
RD045120WE601##BH1		600			
RD045120BH801##BH1		800	10		
RD045120WE102##BJ1	R85	1000	11		
RD045120WE122##BJ1		1200			
RD045120BH152##BJ1		1500	10		
RD045120WE202##BK1	R230	2000	11		
RD045120WE302##BK1		3000			
RD045120BH472##BK1		4700	10		

Notes

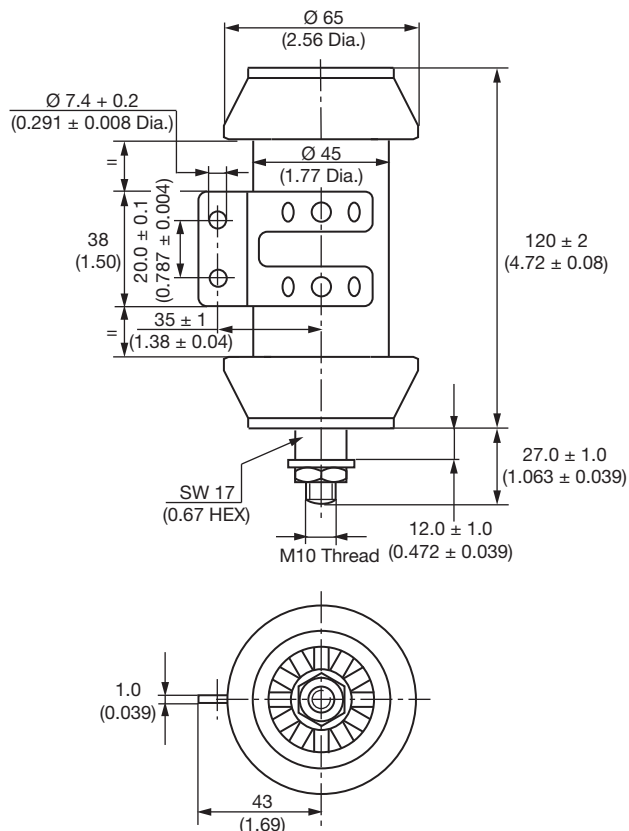
- ## 14th to 15th digit: Capacitance tolerance code $\pm 20\%$ = 38, $\pm 10\%$ = 36, $\pm 5\%$ = 33
- (1) The surface temperature during operation must not exceed + 100 °C

DIMENSIONS in millimeters (inches)

RD 030100

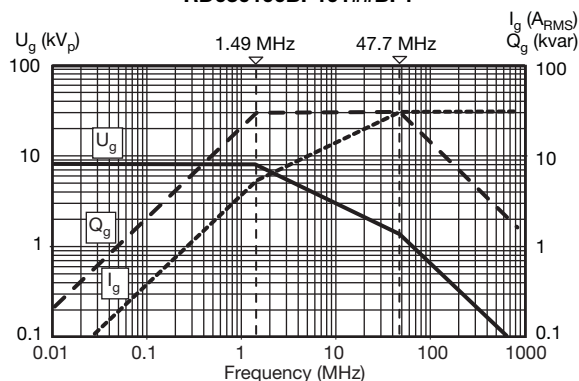


RD 045120

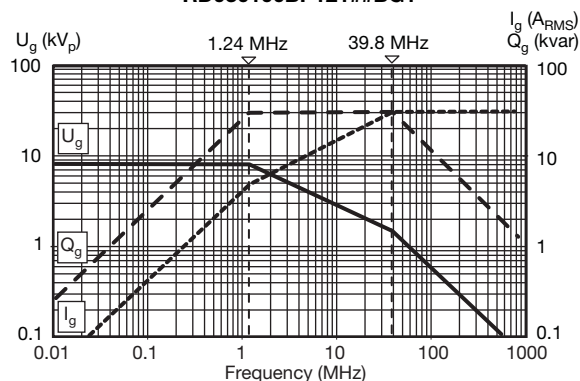


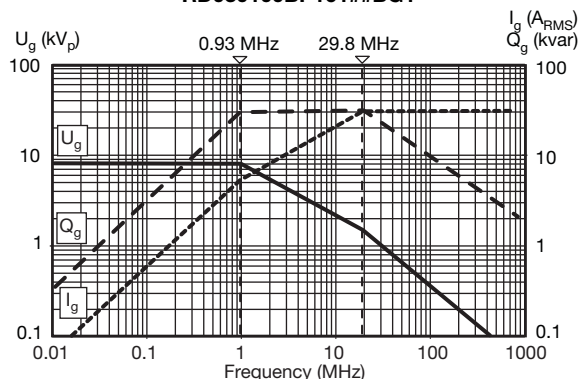
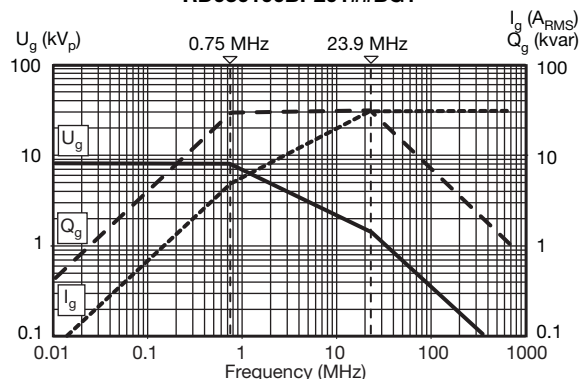
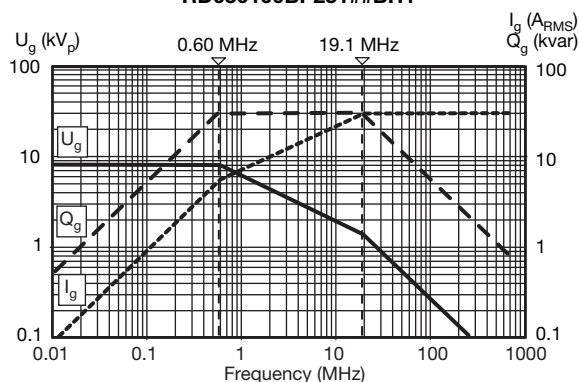
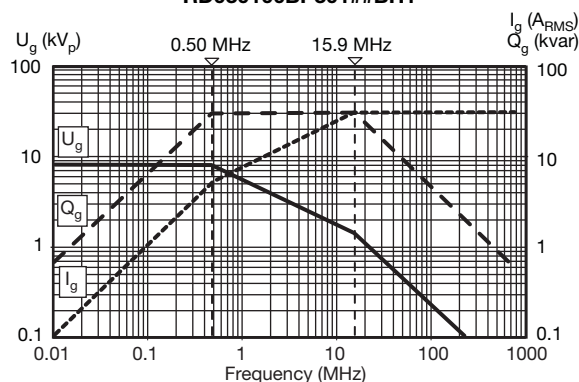
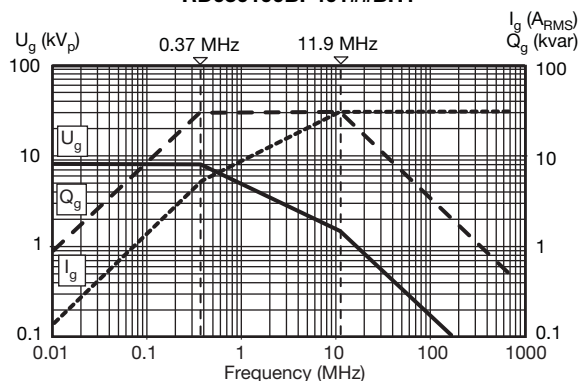
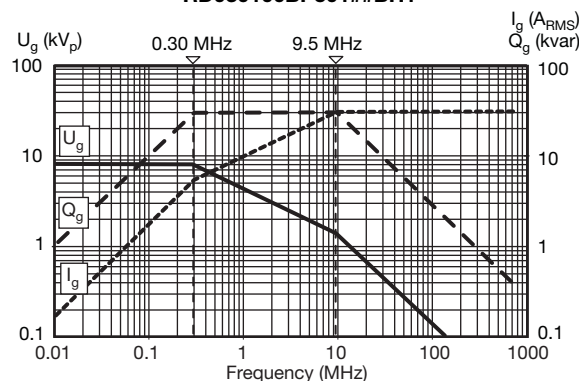
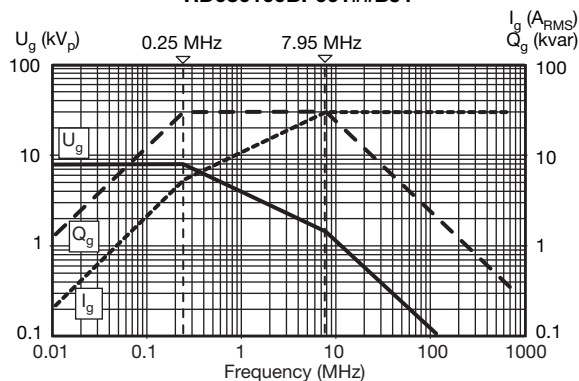
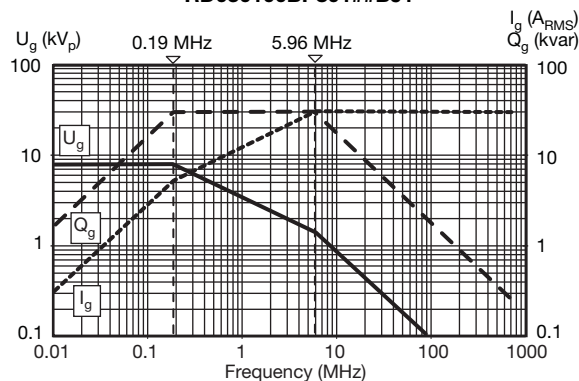
DERATING DIAGRAMS

RD030100BP101##BF1



RD030100BP121##BG1

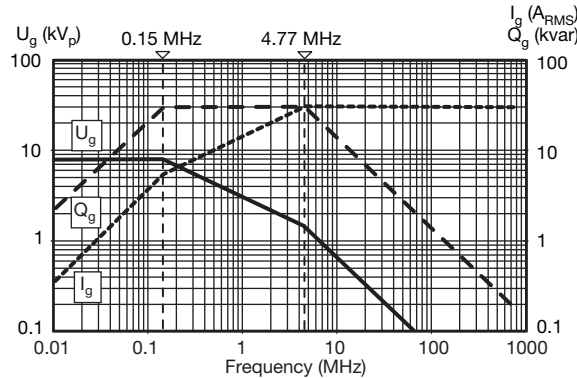


DERATING DIAGRAMS
RD030100BP161##BG1

RD030100BP201##BG1

RD030100BP251##BH1

RD030100BP301##BH1

RD030100BP401##BH1

RD030100BP501##BH1

RD030100BP601##BJ1

RD030100BP801##BJ1


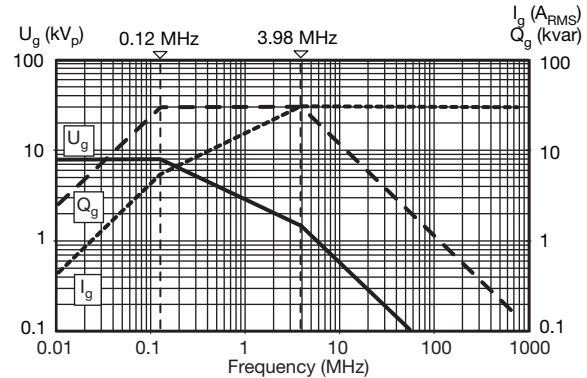


DERATING DIAGRAMS

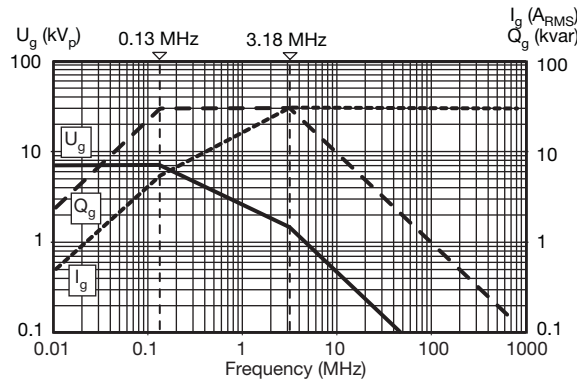
RD030100BP102##BJ1



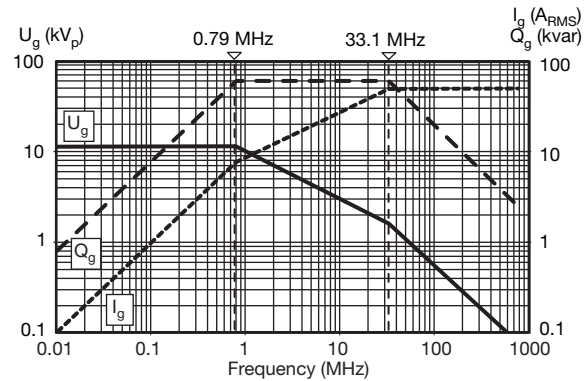
RD030100BP122##BJ1



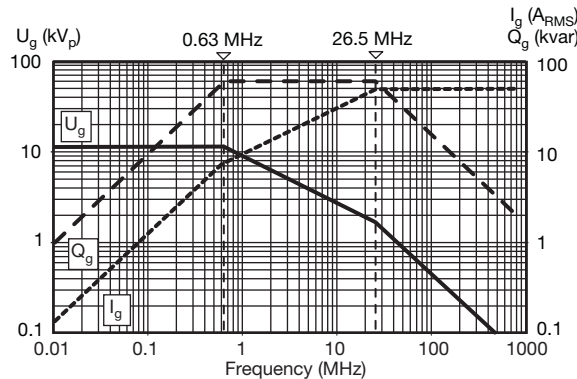
RD030100VY152##BJ1



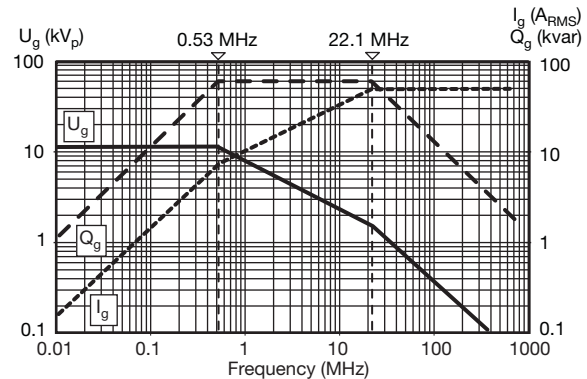
RD045120WE201##BG1



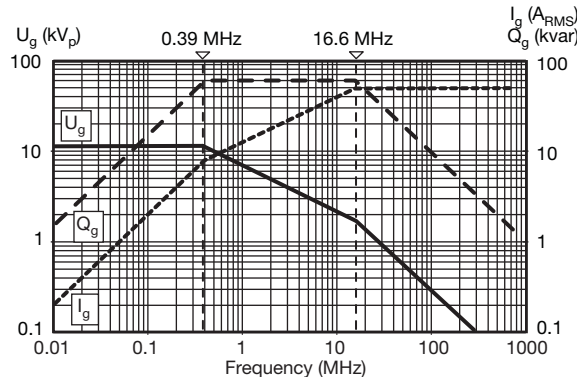
RD045120WE251##BG1



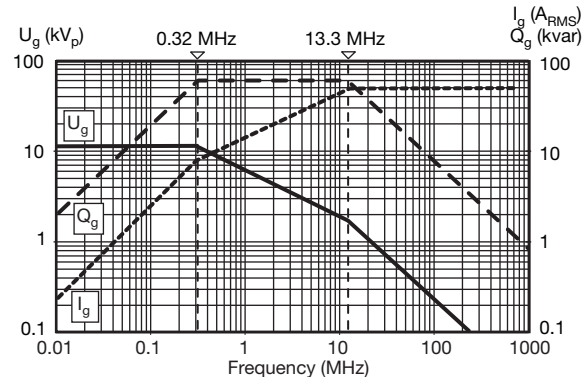
RD045120WE301##BG1



RD045120WE401##BH1



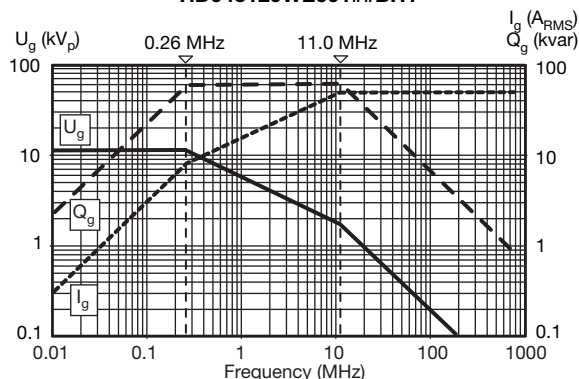
RD045120WE501##BH1



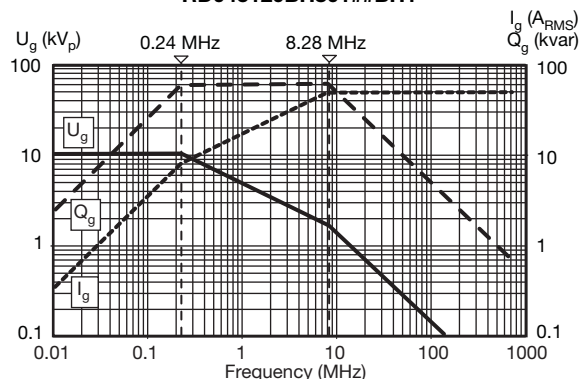


DERATING DIAGRAMS

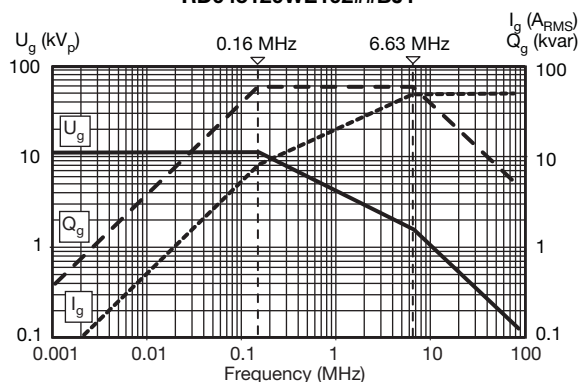
RD045120WE601##BH1



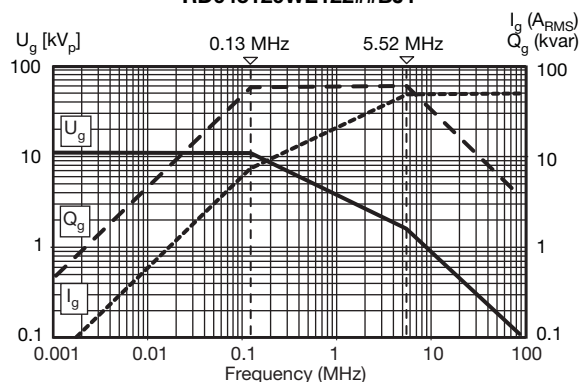
RD045120BH801##BH1



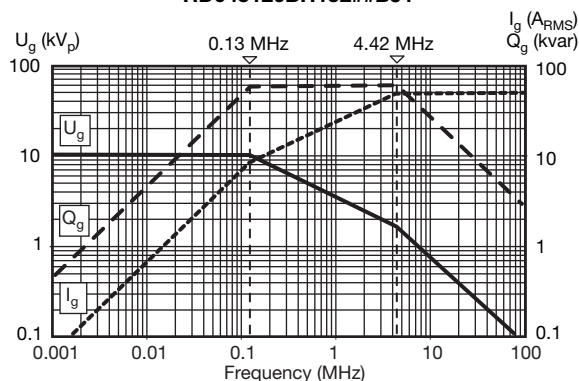
RD045120WE102##BJ1



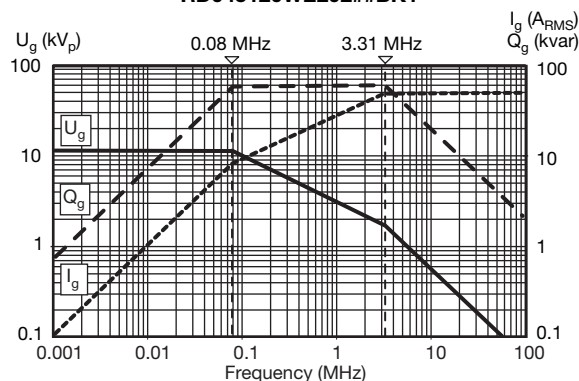
RD045120WE122##BJ1



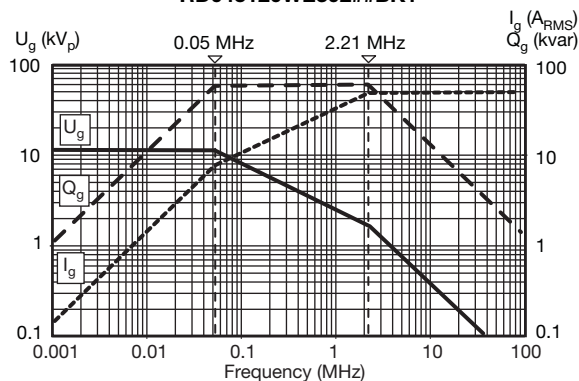
RD045120BH152##BJ1



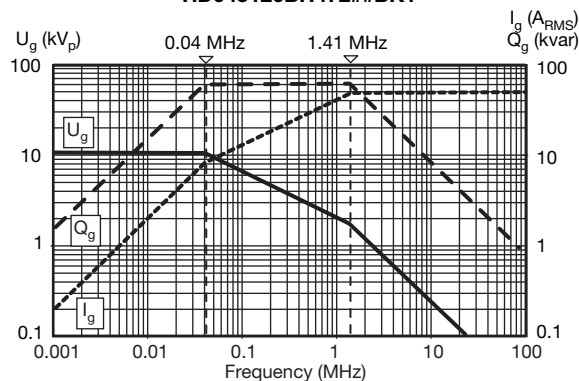
RD045120WE202##BK1



RD045120WE302##BK1



RD045120BH472##BK1





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