

## RF Power Pot Capacitors with Mounting Tags, Class 1 Ceramic



QUICK REFERENCE DATA				
DESCRIPTION	VALUE			
Ceramic Class	1			
Ceramic Dielectric	R7, R42, R85			
Type	TA 085120, TB 085120, TE 085120			
Voltage (V <sub>p</sub> )	10 000	12 000	13 000	15 000
Min. Capacitance (pF)	400	250	2000	100
Max. Capacitance (pF)	4000	2500	2000	1600
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.

### FEATURES

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

### APPLICATIONS

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

### CAPACITANCE RANGE

100 pF to 4.0 nF

### CAPACITANCE TOLERANCE

± 20 %; ± 10 %; ± 5 %

### CERAMIC DIELECTRICS

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

### RATED VOLTAGE

- 10.0 kV<sub>p</sub>
- 12.0 kV<sub>p</sub>
- 13.0 kV<sub>p</sub>
- 15.0 kV<sub>p</sub>

### DIELECTRIC STRENGTH TEST

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

### DISSIPATION FACTOR

R7: max. 0.07 %  
R42, R85: max. 0.05 %

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

### INSULATION RESISTANCE

Min. 100 000 MΩ (at 25 °C)

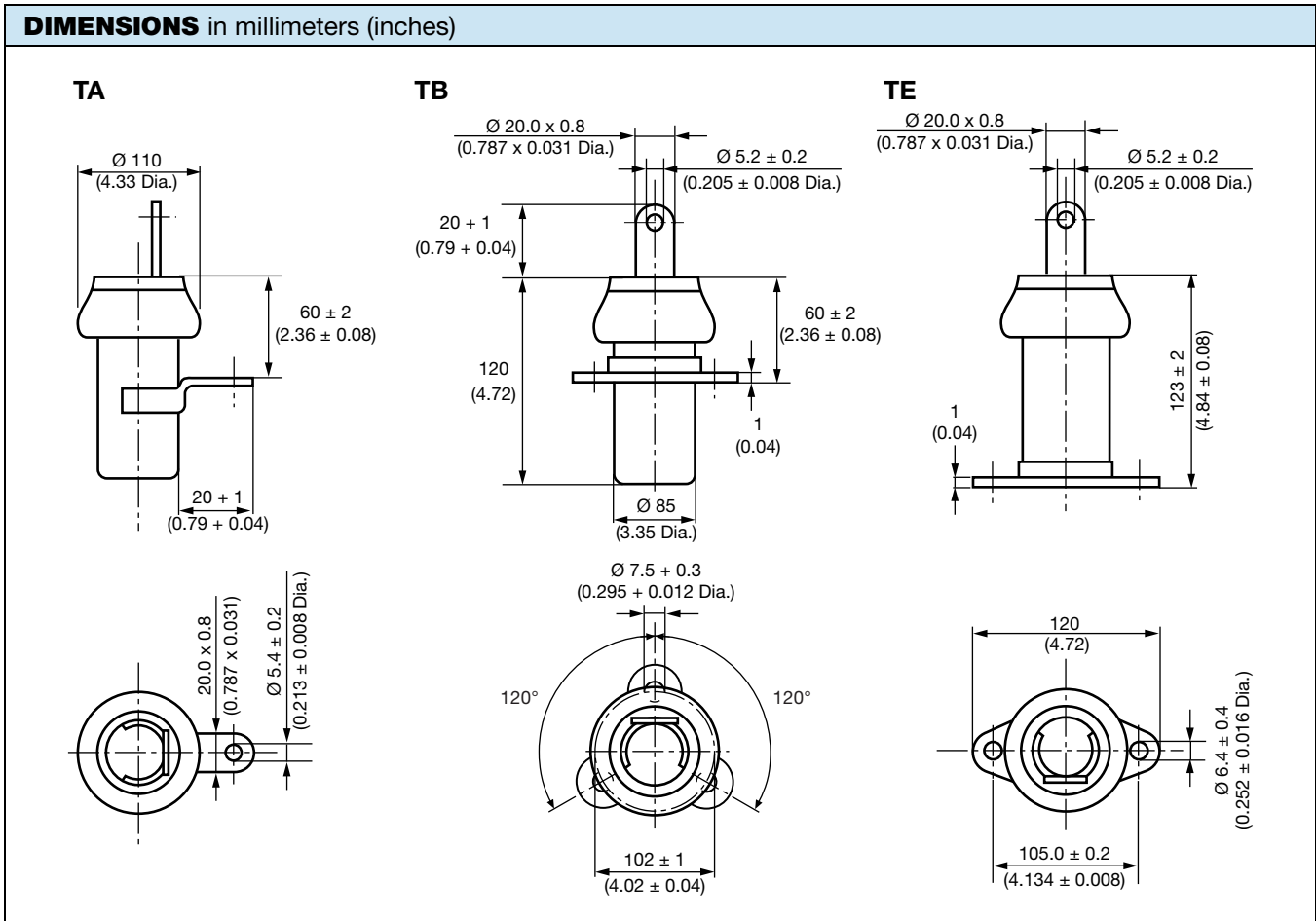
### OPERATING TEMPERATURE RANGE

-55 °C to +100 °C

SAP PART NUMBER AND ELECTRICAL DATA					
PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV <sub>p</sub> )	RATED POWER <sup>(1)</sup> (kvar)	RATED CURRENT (A <sub>RMS</sub> )
T#085120BJ101##BF1	R7	100	15	56	15
T#085120BJ161##BF1		160			
T#085120WF251##BF1		250	12		
T#085120BH401##BF1		400	10		
T#085120BJ501##BH1	R42	500	15	70	
T#085120BJ601##BH1		600			
T#085120WF801##BH1		800	12		
T#085120WF102##BH1		1000			
T#085120BJ162##BJ1	R85	1600	15	70	
T#085120WH202##BJ1		2000	13		
T#085120WF252##BJ1		2500	12		
T#085120BH402##BJ1		4000	10		

**Notes**

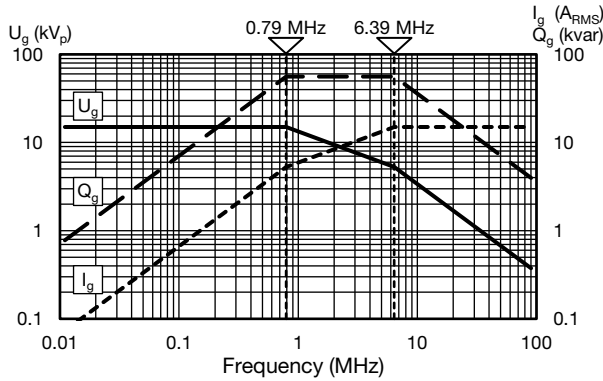
- # 2<sup>nd</sup> digit: code letter of the terminal version A, B, E
- ## 14<sup>th</sup> to 15<sup>th</sup> digit: capacitance tolerance code  $\pm 20\% = 38, \pm 10\% = 36, \pm 5\% = 33$
- <sup>(1)</sup> The surface temperature during operation must not exceed +100 °C



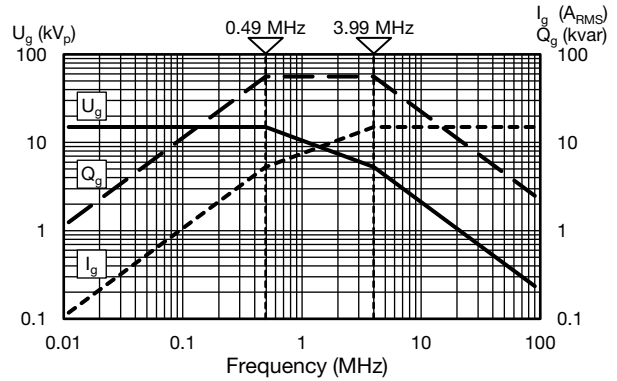


DERATING DIAGRAMS

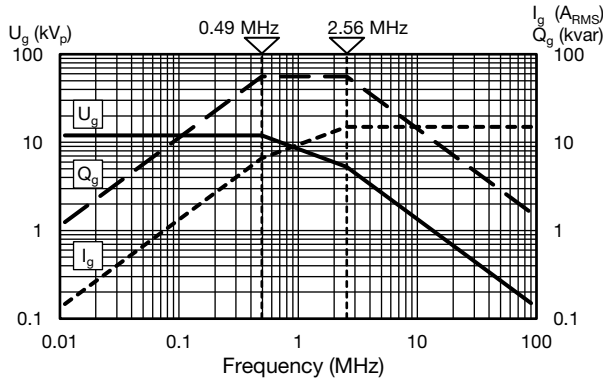
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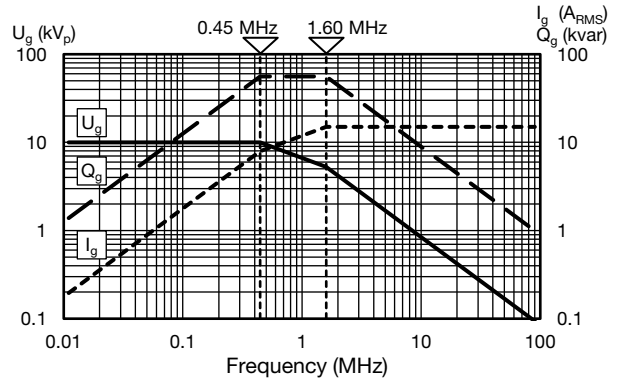
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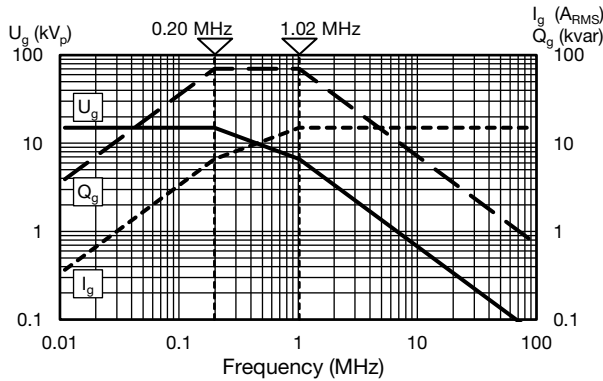
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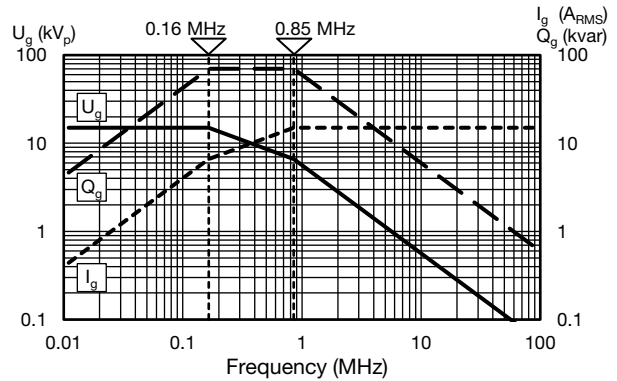
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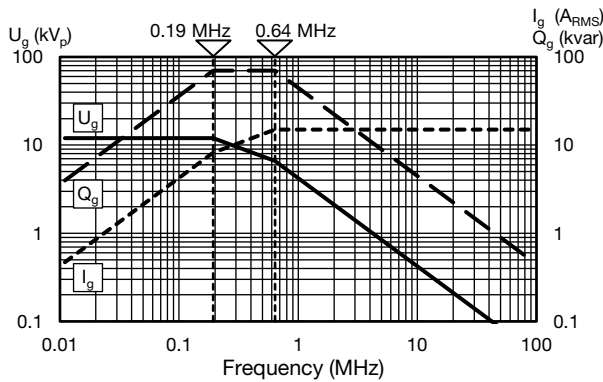
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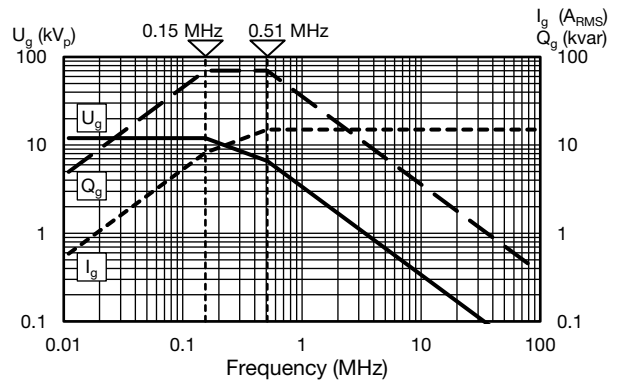
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T#085120WF801##BH1



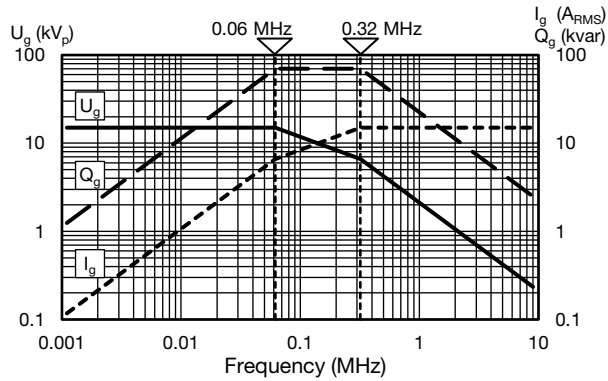
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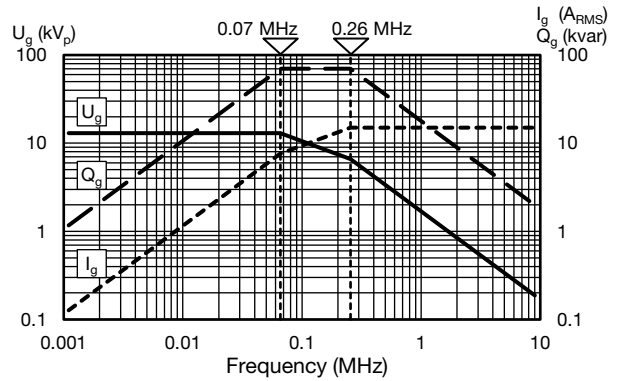


DERATING DIAGRAMS

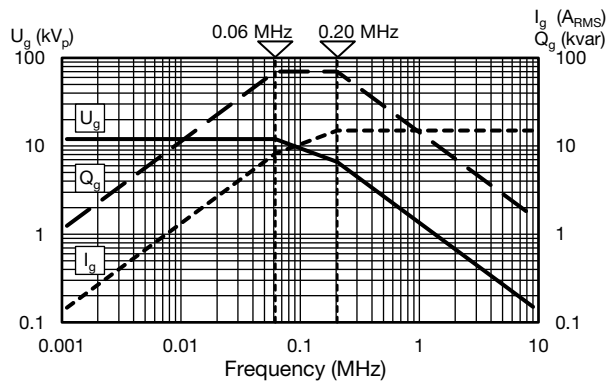
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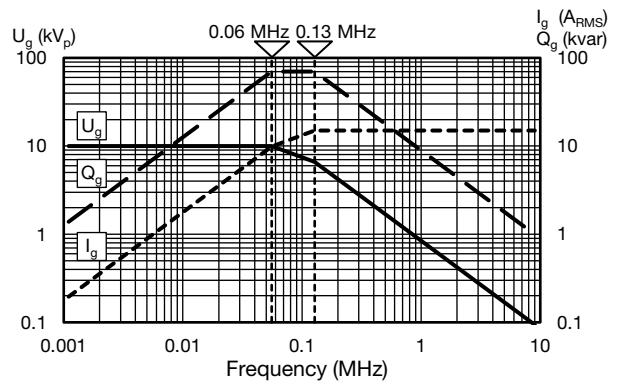
T#085120WH202##BJ1



T#085120WF252##BJ1



T#085120BH402##BJ1



RELATED DOCUMENTS

General Information

[www.vishay.com/doc?22071](http://www.vishay.com/doc?22071)



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