

RF Power Pot Capacitors with Mounting Tags or Screw Terminals, Class 1 Ceramic



QUICK REFERENCE DATA

DESCRIPTION	VALUE	
Ceramic Class	1	
Ceramic Dielectric	R7, R16, R42, R85	
Type	TA 030090 TB 030090 TC 030090 TD 030090 TDZ 030090 TE 030090	
Voltage (V _p)	9000	10 000
Min. Capacitance (pF)	1200	50
Max. Capacitance (pF)	1600	1000
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 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

50 pF to 1.6 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)

RATED VOLTAGE

- 9.0 kV_p
- 10.0 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: Max. 0.05 % (1 MHz)

INSULATION RESISTANCE

Min. 100 000 MΩ (at 25 °C)

OPERATING TEMPERATURE RANGE

- 55 °C to + 100 °C



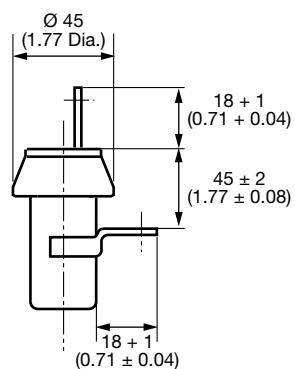
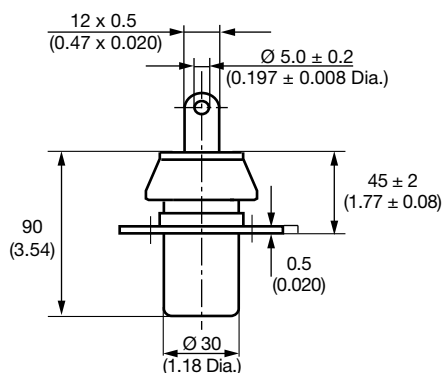
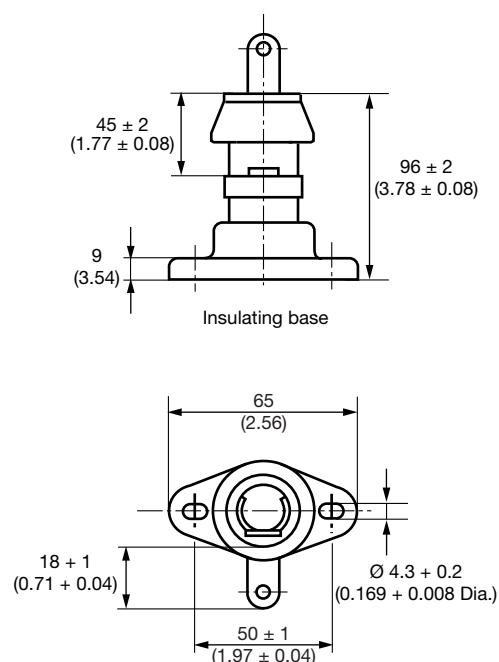
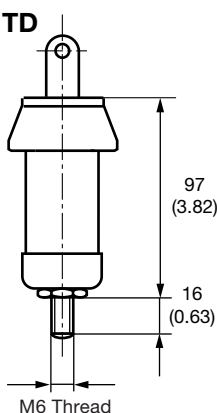
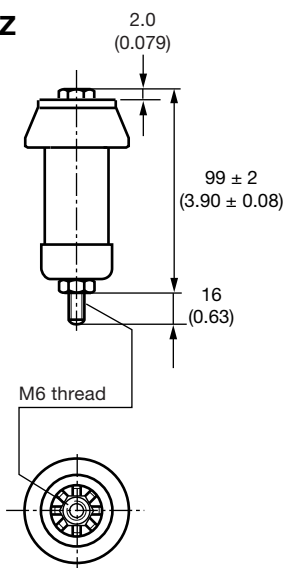
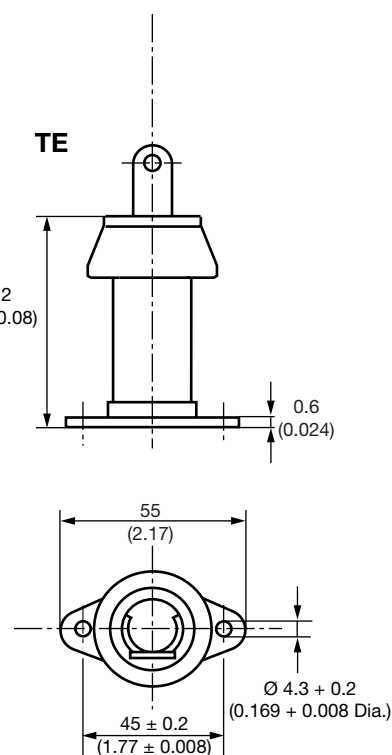
SAP PART NUMBER AND ELECTRICAL DATA						
PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV _p)	RATED POWER ⁽¹⁾ (kvar)	RATED CURRENT (A _{RMS})	
T. 030090						
T#030090BH500##BF1	R7	50	10	14	9.0	
T#030090BH600##BF1		60				
T#030090BH800##BF1		80				
T#030090BH101##BG1	R16	100				
T#030090BH121##BG1		120				
T#030090BH161##BG1		160				
T#030090BH201##BH1	R42	200		18		
T#030090BH251##BH1		250				
T#030090BH301##BH1		300				
T#030090BH401##BH1		400				
T#030090BH501##BJ1	R85	500				9.0
T#030090BH601##BJ1		600				
T#030090BH801##BJ1		800				
T#030090BH102##BJ1		1000				
T#030090WC122##BJ1		1200				
T#030090WC162##BJ1		1600				

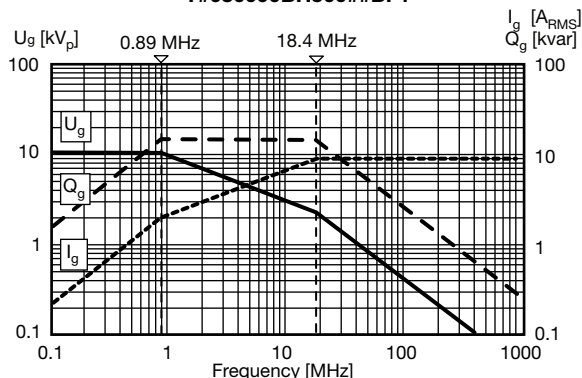
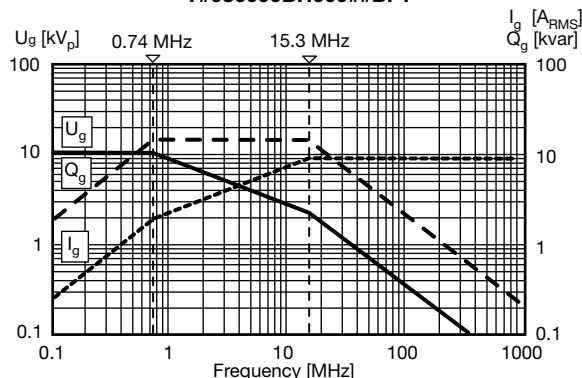
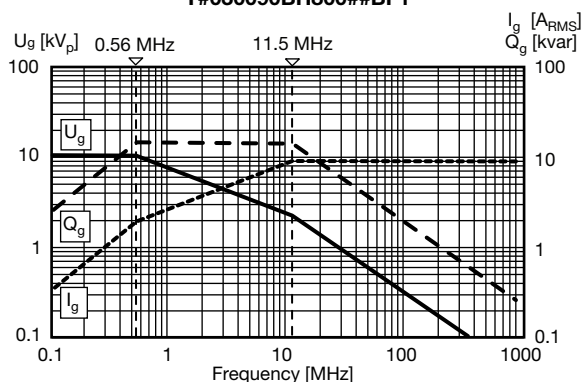
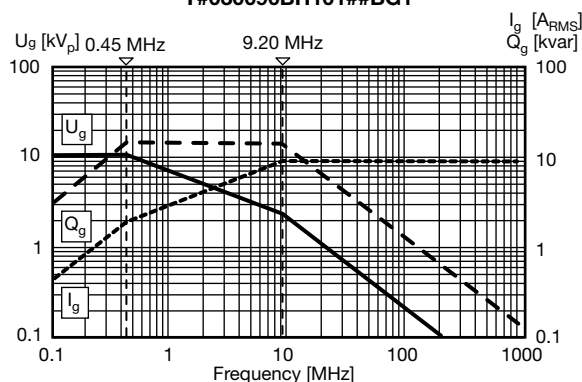
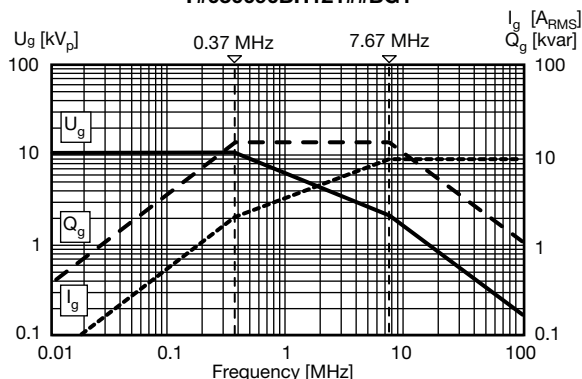
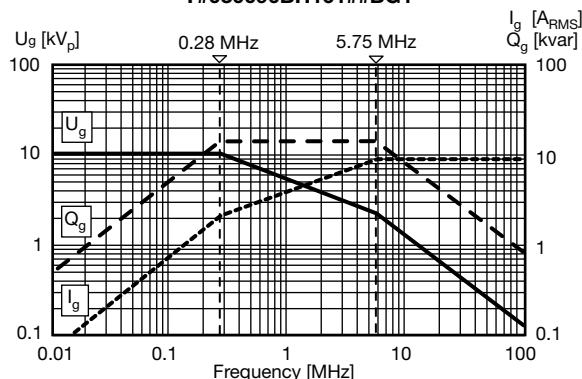
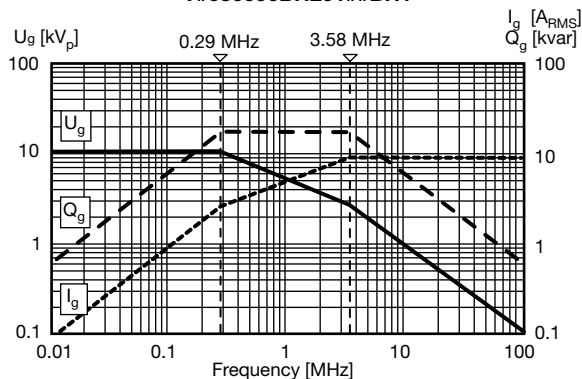
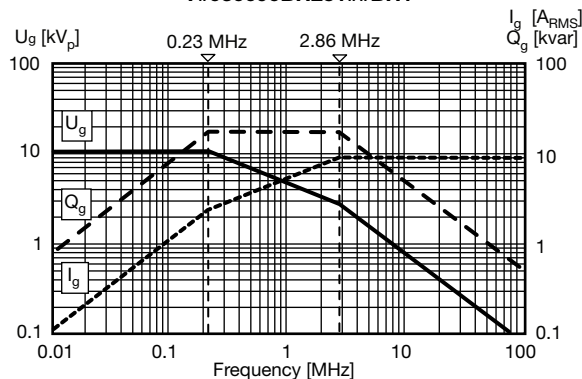
Notes

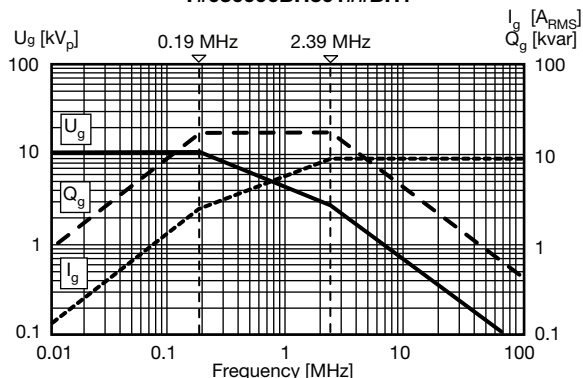
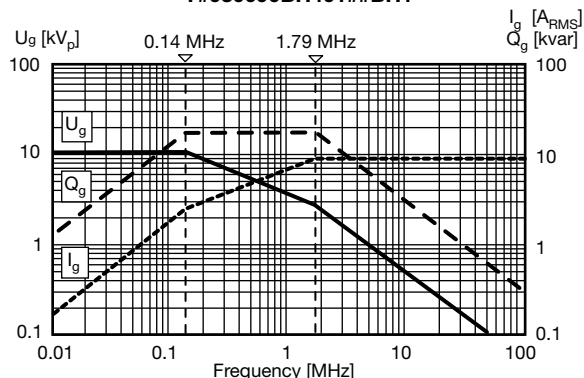
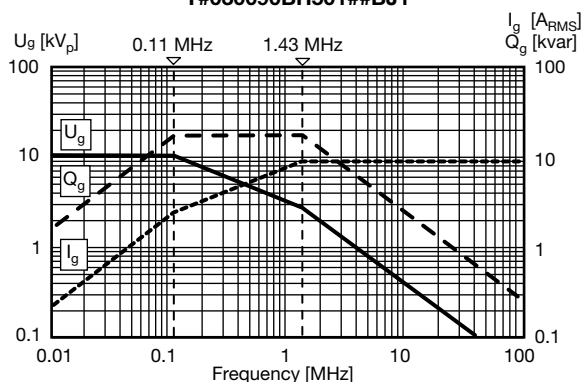
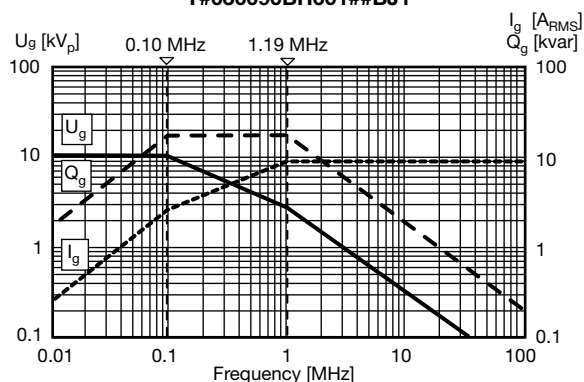
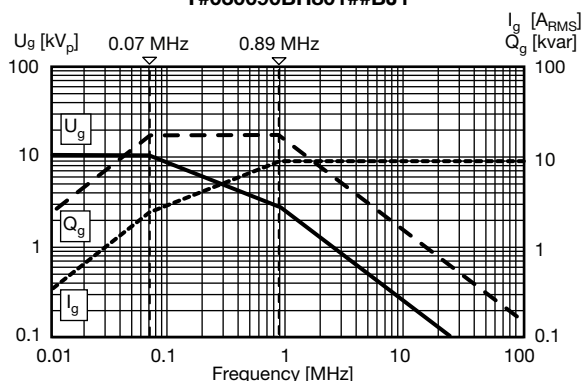
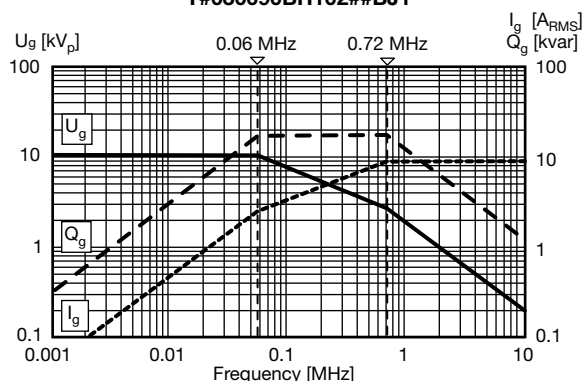
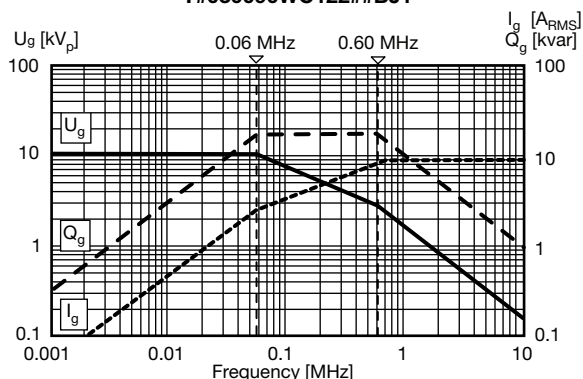
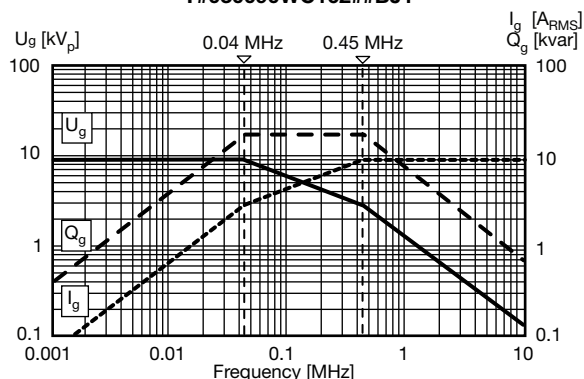
- # 2nd digit: Code letter of the terminal version A, B, C, D, E (Exception: TDZ30090)
- ## 14th to 15th digit: Capacitance tolerance code $\pm 20\%$ = 38, $\pm 10\%$ = 36, $\pm 5\%$ = 33

⁽¹⁾ The surface temperature during operation must not exceed + 100 °C

DIMENSIONS in millimeters (inches)

TA

TB

TC

TD

TDZ

TE


DERATING DIAGRAMS
T#030090BH500##BF1

T#030090BH600##BF1

T#030090BH800##BF1

T#030090BH101##BG1

T#030090BH121##BG1

T#030090BH161##BG1

T#030090BH201##BH1

T#030090BH251##BH1


DERATING DIAGRAMS
T#030090BH301##BH1

T#030090BH401##BH1

T#030090BH501##BJ1

T#030090BH601##BJ1

T#030090BH801##BJ1

T#030090BH102##BJ1

T#030090WC122##BJ1

T#030090WC162##BJ1




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