



# 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				
Туре	TA 030090 TB 030090 TD 030090 TDZ 030090 TE 030090				
Voltage (V <sub>p</sub> )	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 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**

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<sub>p</sub>
- 10.0 kV<sub>p</sub>

# DIELECTRIC STRENGTH TEST

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

# **DISSIPATION FACTOR**

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

Measuring frequencies:

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

## **INSULATION RESISTANCE**

Min. 100 000 M $\Omega$  (at 25 °C)

# **OPERATING TEMPERATURE RANGE**

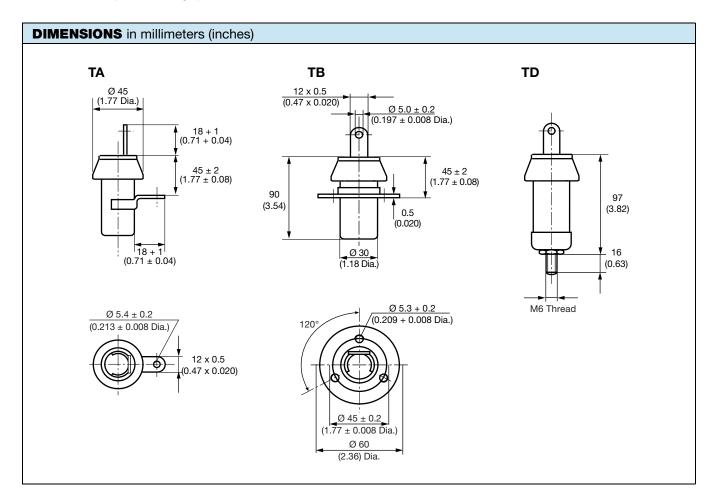
-55 °C to +100 °C

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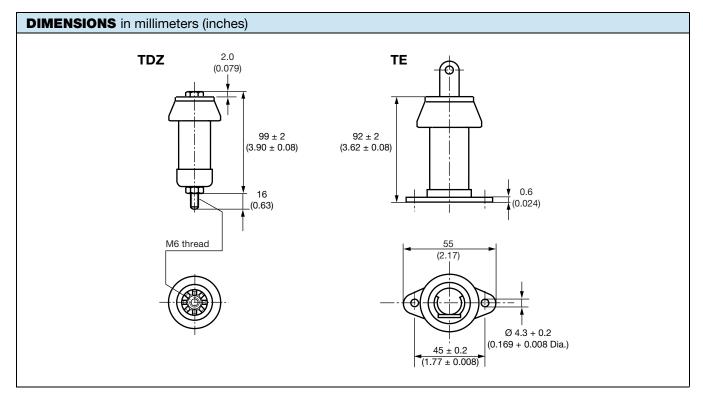
SAP PART NUMBER AND ELECTRICAL DATA						
PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV <sub>P</sub> )	RATED POWER <sup>(1)</sup> (kvar)	RATED CURRENT (A <sub>RMS</sub> )	
T#030090BH500##BF1		50				
T#030090BH600##BF1	R7	60				
T#030090BH800##BF1		80		14		
T#030090BH101##BG1		100		14		
T#030090BH121##BG1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

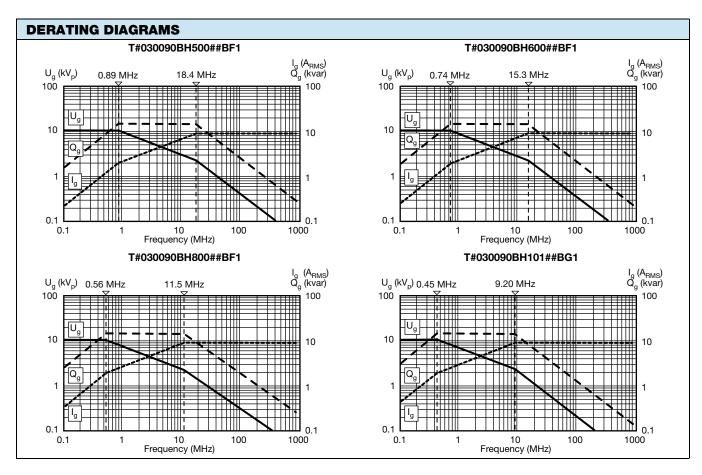
## **Notes**

- # 2<sup>nd</sup> digit: code letter of the terminal version A, B, D, E (exception: TDZ30090)
- ## 14<sup>th</sup> to 15<sup>th</sup> digit: capacitance tolerance code  $\pm$  20 % = 38,  $\pm$  10 % = 36,  $\pm$  5 % = 33
- $^{(1)}$  The surface temperature during operation must not exceed +100  $^{\circ}$ C



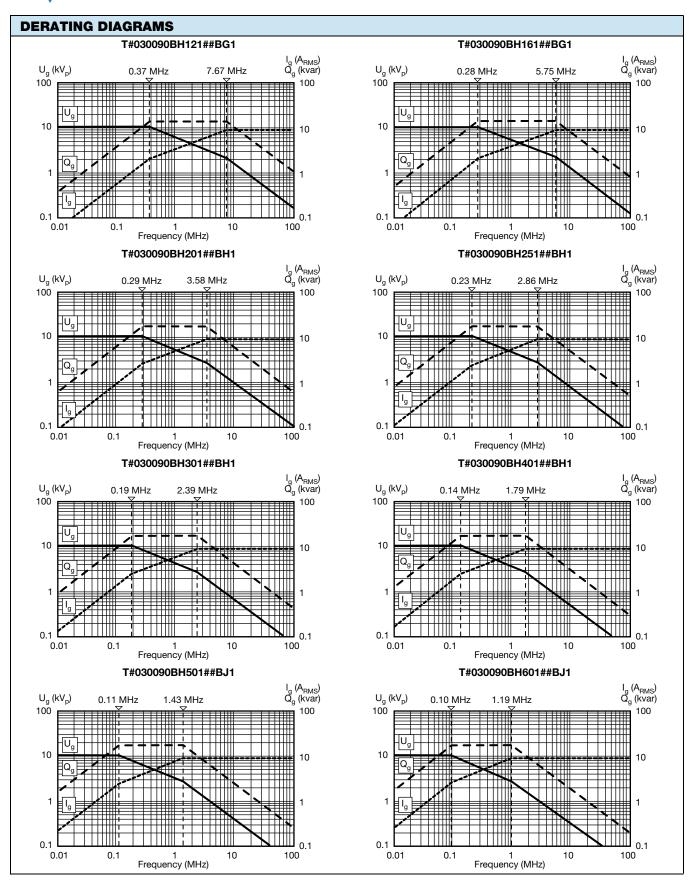




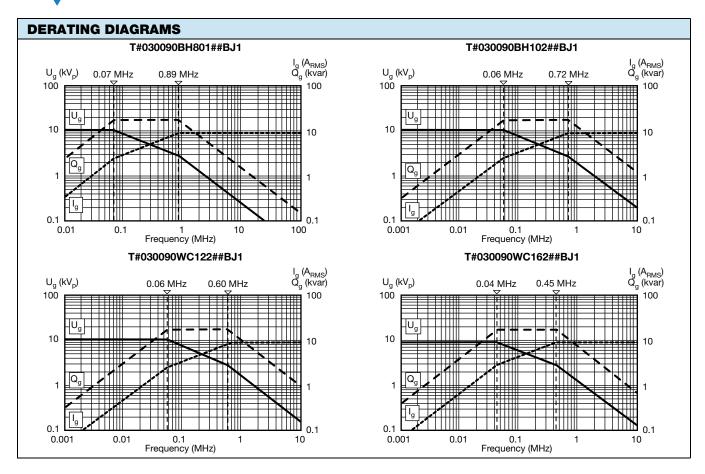


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RELATED DOCUMENTS	
General Information	www.vishay.com/doc?22071

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