

RF Power Tubular Capacitors with Mounting Tags, Class 1 Ceramic



QUICK REFERENCE DATA	
DESCRIPTION	VALUE
Ceramic Class	1
Ceramic Dielectric	R7, R42, R85
Type	RA 020080 RB 020080 RC 020080 RE 020080
Voltage (V _p)	4000
Min. Capacitance (pF)	60
Max. Capacitance (pF)	2000
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 and the ceramic base are additionally glazed.

MARKING

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

FEATURES

- Small size
- High reliability
- Wide range of capacitance values

APPLICATIONS

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

CAPACITANCE RANGE

60 pF to 2.0 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

4.0 kV_p

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)

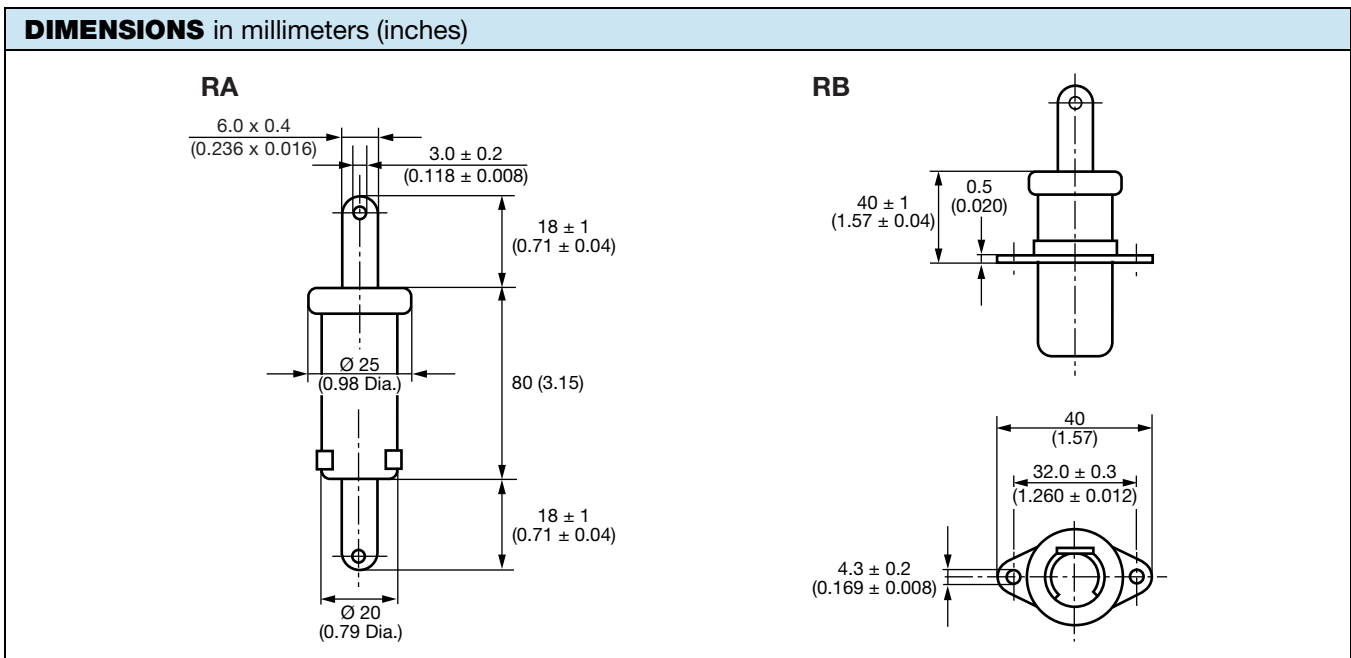
OPERATING TEMPERATURE RANGE

-55 °C to +100 °C

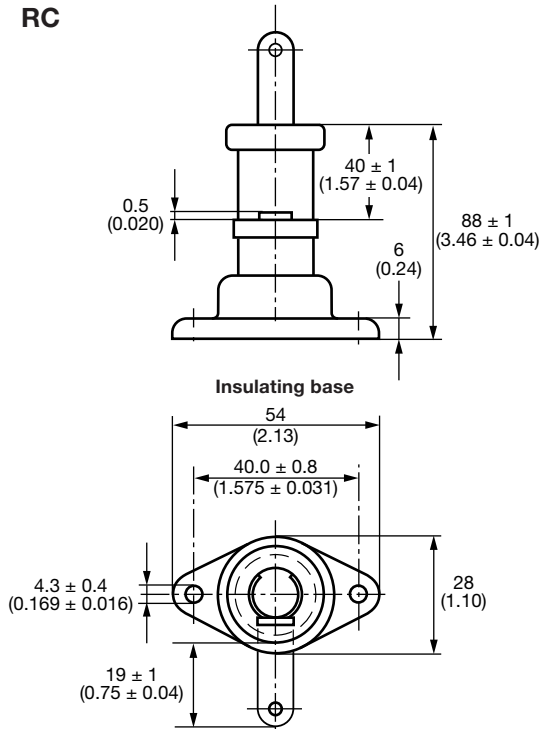
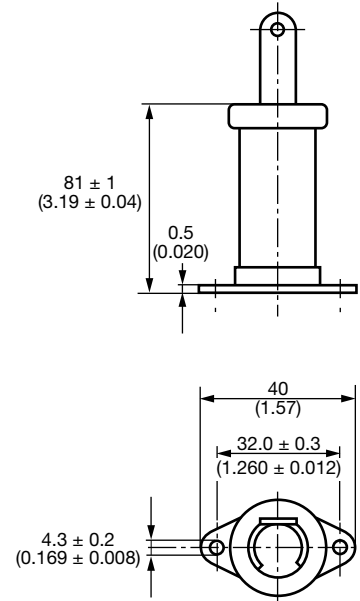
SAP PART NUMBER AND ELECTRICAL DATA					
PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV _p)	RATED POWER ⁽¹⁾ (kvar)	RATED CURRENT (A _{rms})
R#020080BD600##BF1	R7	60	4.0	8.0	6.0
R#020080BD800##BF1		80			
R#020080BD101##BF1		100			
R#020080BD121##BF1		120			
R#020080BD161##BF1		160			
R#020080BD201##BH1	R42	200			
R#020080BD251##BH1		250			
R#020080BD301##BH1		300			
R#020080BD401##BH1		400			
R#020080BD501##BH1		500			
R#020080BD601##BH1		600			
R#020080BD801##BH1		800			
R#020080BD102##BJ1		R85		1000	
R#020080BD122##BJ1	1200				
R#020080BD162##BJ1	1600				
R#020080BD202##BJ1	2000				

Notes

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



DIMENSIONS in millimeters (inches)

RC

RE

RELATED DOCUMENTS

General Information

www.vishay.com/doc?22071



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