



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



QUICK REFERENCE DATA		
DESCRIPTION	VALUE	
Ceramic Class	1	
Ceramic Dielectric	R7, R42, R85	
Туре	RA 020080 RB 020080 RC 020080 RE 020080	
Voltage (V <sub>p</sub> )	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<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 M $\Omega$  (at 25 °C)

## **OPERATING TEMPERATURE RANGE**

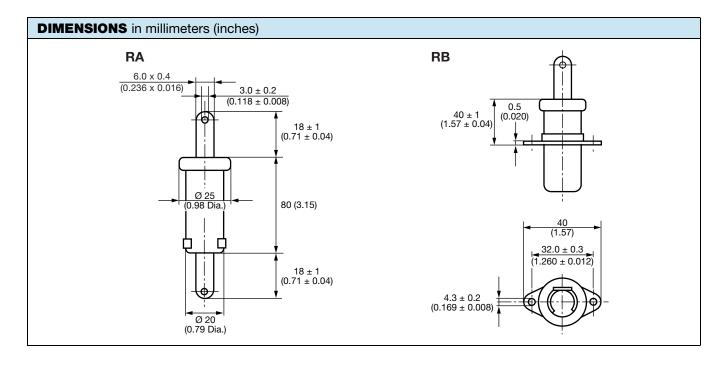
-55 °C to +100 °C

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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> )
R#020080BD600##BF1		60			
R#020080BD800##BF1		80			
R#020080BD101##BF1	R7	100		8.0	
R#020080BD121##BF1		120			
R#020080BD161##BF1		160			
R#020080BD201##BH1		200			
R#020080BD251##BH1		250			
R#020080BD301##BH1		300	4.0		6.0
R#020080BD401##BH1	R42	400	4.0		6.0
R#020080BD501##BH1		500			
R#020080BD601##BH1		600		10.5	
R#020080BD801##BH1		800			
R#020080BD102##BJ1	R85	1000			
R#020080BD122##BJ1		1200			
R#020080BD162##BJ1		1600			
R#020080BD202##BJ1		2000			

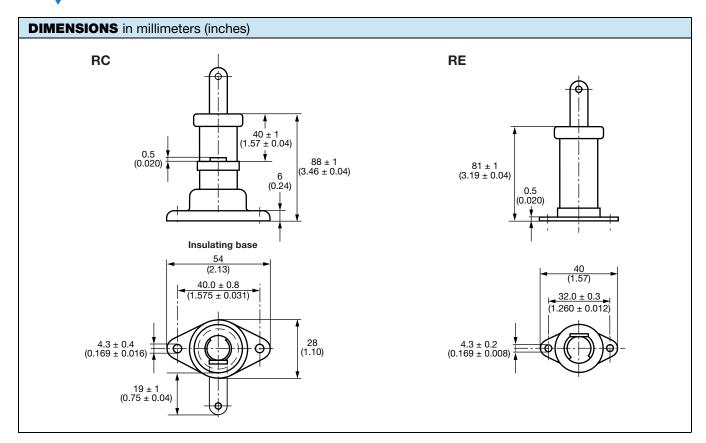
#### Notes

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



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

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