



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 012085 RE 012085	RA 012020 RB 012020 RE 012020			
Voltage (V _p)	2000				
Min. Capacitance (pF)	3.0	10			
Max. Capacitance (pF)	100	400			
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

3.0 pF to 400 pF

CAPACITANCE TOLERANCE

< 10 pF: \pm 2 pF; \pm 1 pF; \pm 0.5 pF \geq 10 pF: \pm 20 %; \pm 10 %; \pm 5 %

CERAMIC DIELECTRICS

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

RATED VOLTAGE

 $2.0~kV_p$

DIELECTRIC STRENGTH TEST

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

DISSIPATION FACTOR

R7: max. 0.07 % (1 MHz) R42, R85: max. 0.05 % (1 MHz)

INSULATION RESISTANCE

Min. 100 000 M Ω (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 _P)	POWER ⁽¹⁾ (kvar)	RATED CURRENT (A _{RMS})	
TYPE R. 012085						
R#012085BB930##BF1		3.0				
R#012085BB940##BF1		4.0				
R#012085BB950##BF1	R7	5.0		0.7		
R#012085BB960##BF1		6.0				
R#012085BB980##BF1		8.0				
R#012085BB100##BF1		10				
R#012085BB160##BH1		16				
R#012085BB200##BH1	R42	20	2.0		4.0	
R#012085BB250##BH1	N42	25				
R#012085BB300##BH1		30				
R#012085BB400##BJ1		40		0.8		
R#012085BB500##BJ1		50				
R#012085BB600##BJ1	R85	60				
R#012085BB800##BJ1		80				
R#012085BB101##BJ1		100				
TYPE R. 012020						
R#012020BB100##BF1		10				
R#012020BB120##BF1		12				
R#012020BB160##BF1	R7	16		1.4		
R#012020BB200##BF1	H/	20		1.4		
R#012020BB250##BF1		25			4.0	
R#012020BB300##BF1		30				
R#012020BB400##BH1	R42	40				
R#012020BB500##BH1		50	2.0			
R#012020BB600##BH1		60				
R#012020BB800##BH1		80				
R#012020BB101##BJ1		100				
R#012020BB121##BJ1		120		1.7		
R#012020BB161##BJ1	R85	160				
R#012020BB201##BJ1		200				
R#012020BB251##BJ1		250				
R#012020BB301##BJ1		300				
R#012020BB401##BJ1		400				

Notes

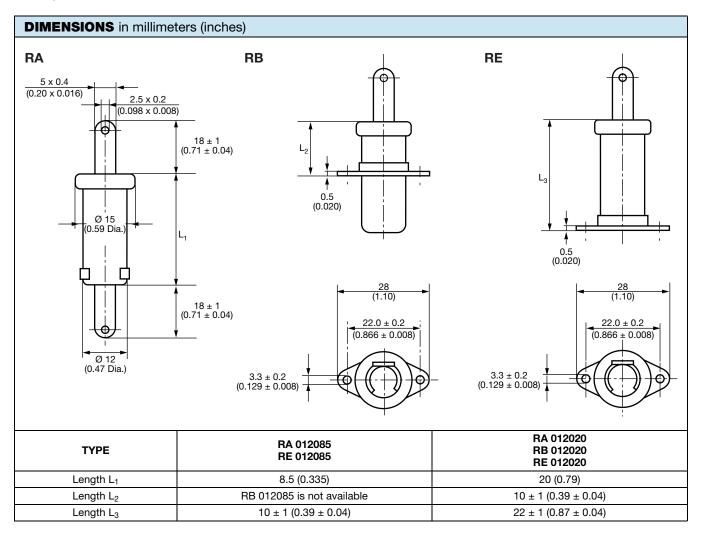
- # 2nd digit: code letter of the terminal version A, B, E (RB 012085 is not available)
- ## 14th to 15th digit: capacitance tolerance code < 10 pF: \pm 2 pF = 15, \pm 1 pF = 14, \pm 0.5 pF = 13 \geq 10 pF: \pm 20 % = 38, \pm 10 % = 36, \pm 5 % = 33

⁽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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