R. 012085, R. 012020



Vishay Draloric

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: ± 2 pF; ± 1 pF; ± 0.5 pF
- \geq 10 pF: ± 20 %; ± 10 %; ± 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 MΩ (at 25 °C)

OPERATING TEMPERATURE RANGE

-55 °C to +100 °C

For technical questions, contact: powcap@vishay.com



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SAP PART NUMBE	SAP PART NUMBER AND ELECTRICAL DATA					
PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV _P)	RATED POWER ⁽¹⁾ (kvar)	RATED CURRENT (A _{RMS})	
TYPE R. 012085	•	·				
R#012085BB930##BF1	R7	3.0		0.7		
R#012085BB940##BF1		4.0				
R#012085BB950##BF1		5.0				
R#012085BB960##BF1		6.0		0.7		
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	K42	25				
R#012085BB300##BH1		30	-			
R#012085BB400##BJ1		40		0.8		
R#012085BB500##BJ1	R85	50				
R#012085BB600##BJ1		60				
R#012085BB800##BJ1		80				
R#012085BB101##BJ1		100				
TYPE R. 012020						
R#012020BB100##BF1		10				
R#012020BB120##BF1	R7	12				
R#012020BB160##BF1		16	-			
R#012020BB200##BF1		20		1.4		
R#012020BB250##BF1		25			4.0	
R#012020BB300##BF1		30				
R#012020BB400##BH1		40				
R#012020BB500##BH1		50	2.0			
R#012020BB600##BH1	R42	60				
R#012020BB800##BH1		80				
R#012020BB101##BJ1		100				
R#012020BB121##BJ1	1	120	1	1.7		
R#012020BB161##BJ1	R85	160				
R#012020BB201##BJ1		200				
R#012020BB251##BJ1		250				
R#012020BB301##BJ1		300	1			
R#012020BB401##BJ1		400	1			

Notes

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• # 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: ± 20 % = 38, ± 10 % = 36, ± 5 % = 33

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

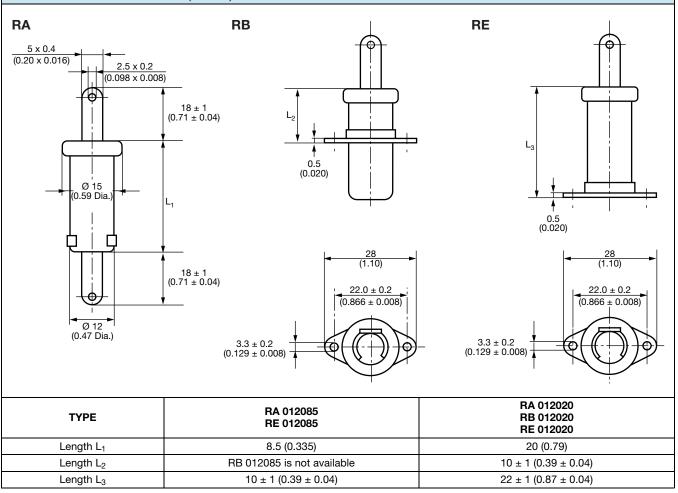
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R. 012085, R. 012020

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DIMENSIONS in millimeters (inches)



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



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