

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 012085	RA 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

≥ 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 M Ω (at 25 °C)

OPERATING TEMPERATURE RANGE

-55 °C to +100 °C

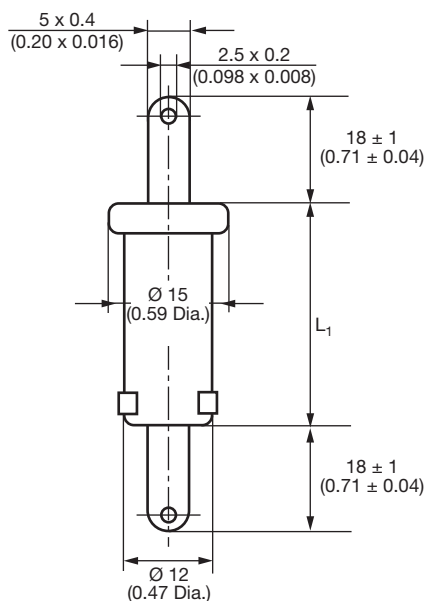


SAP PART NUMBER AND ELECTRICAL DATA								
PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV _P)	RATED POWER ⁽¹⁾ (kvar)	RATED CURRENT (A _{RMS})			
TYPE RA 012085								
RA012085BB930##BF1	R7	3.0	2.0	0.7	4.0			
RA012085BB940##BF1		4.0						
RA012085BB950##BF1		5.0						
RA012085BB960##BF1		6.0						
RA012085BB980##BF1		8.0						
RA012085BB100##BF1		10						
RA012085BB160##BH1	R42	16		0.8				
RA012085BB200##BH1		20						
RA012085BB250##BH1		25						
RA012085BB300##BH1		30						
RA012085BB400##BJ1	R85	40						
RA012085BB500##BJ1		50						
RA012085BB600##BJ1		60						
RA012085BB800##BJ1		80						
RA012085BB101##BJ1		100						
TYPE RA 012020								
RA012020BB100##BF1	R7	10	2.0	1.4	4.0			
RA012020BB120##BF1		12						
RA012020BB160##BF1		16						
RA012020BB200##BF1		20						
RA012020BB250##BF1		25						
RA012020BB300##BF1		30						
RA012020BB400##BH1	R42	40		1.7				
RA012020BB500##BH1		50						
RA012020BB600##BH1		60						
RA012020BB800##BH1		80						
RA012020BB101##BJ1	R85	100						
RA012020BB121##BJ1		120						
RA012020BB161##BJ1		160						
RA012020BB201##BJ1		200						
RA012020BB251##BJ1		250						
RA012020BB301##BJ1		300						
RA012020BB401##BJ1		400						

Notes

- ## 14th to 15th digit: capacitance tolerance code < 10 pF: ± 2 pF = 15, ± 1 pF = 14, ± 0.5 pF = 13
 ≥ 10 pF: $\pm 20\%$ = 38, $\pm 10\%$ = 36, $\pm 5\%$ = 33

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

DIMENSIONS in millimeters (inches)


TYPE	RA 012085	RA 012020
Length L_1	8.5 (0.335)	20 (0.79)

RELATED DOCUMENTS

General Information	www.vishay.com/doc?22071
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