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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	RA 012020			
Voltage (V <sub>p</sub> )	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**

 $2.0 \text{ kV}_{p}$ 

#### **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 $\Omega$  (at 25 °C)

#### **OPERATING TEMPERATURE RANGE**

-55 °C to +100 °C



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SAP PART NUMBE	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> )		
TYPE RA 012085							
RA012085BB930##BF1		3.0					
RA012085BB940##BF1		4.0					
RA012085BB950##BF1	R7	5.0		0.7			
RA012085BB960##BF1		6.0					
RA012085BB980##BF1		8.0					
RA012085BB100##BF1		10					
RA012085BB160##BH1		16					
RA012085BB200##BH1	R42	20	2.0		4.0		
RA012085BB250##BH1	N42	25					
RA012085BB300##BH1		30		0.8			
RA012085BB400##BJ1		40					
RA012085BB500##BJ1		50					
RA012085BB600##BJ1	R85	60					
RA012085BB800##BJ1		80					
RA012085BB101##BJ1		100					
TYPE RA 012020							
RA012020BB100##BF1		10					
RA012020BB120##BF1		12					
RA012020BB160##BF1	R7	16		1.4			
RA012020BB200##BF1	n/	20		1.4			
RA012020BB250##BF1		25					
RA012020BB300##BF1		30					
RA012020BB400##BH1	R42	40					
RA012020BB500##BH1		50	2.0		4.0		
RA012020BB600##BH1		60					
RA012020BB800##BH1		80					
RA012020BB101##BJ1		100					
RA012020BB121##BJ1		120		1.7			
RA012020BB161##BJ1		160					
RA012020BB201##BJ1	R85	200	]				
RA012020BB251##BJ1		250	]				
RA012020BB301##BJ1		300	]				
RA012020BB401##BJ1		400	]				

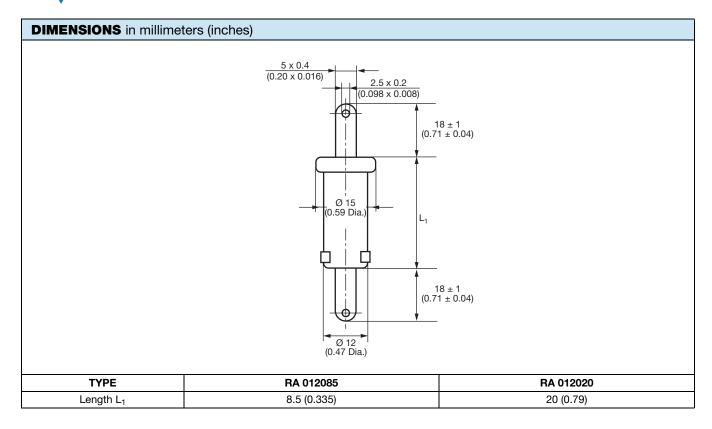
#### Notes

<sup>• ## 14&</sup>lt;sup>th</sup> to 15<sup>th</sup> 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

 $<sup>^{(1)}\,</sup>$  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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