



RF Power Tubular Capacitors With Mounting Tags, Class 1 Ceramic



QUICK REFERENCE DATA					
DESCRIPTION	VALUE				
Ceramic Class	1				
Ceramic Dielectric	R7, R16, R42, R85				
Туре	RA 016040 RB 016040 RE 016040	RA 016070 RB 016070 RE 016070			
Voltage (V _p)	3000				
Min. Capacitance (pF)	25	50			
Max. Capacitance (pF)	1000	1600			
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

25 pF to 1.6 nF

CAPACITANCE TOLERANCE

± 20 %; ± 10 %; ± 5 %

CERAMIC DIELECTRICS

- R7 (TCC + 100 ppm/K)
- R16 (TCC + 100 ppm/K)
- R42 (TCC 250 ppm/K)
- R85 (TCC 750 ppm/K)

RATED VOLTAGE

 3.0 kV_p

DIELECTRIC STRENGTH TEST

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

DISSIPATION FACTOR

R7: max. 0.07 % R16: max. 0.04 % R42, R85: max. 0.05 %

Measuring frequencies:

1 MHz (< 1 nF); 300 kHz or 100 kHz (≥ 1 nF)

INSULATION RESISTANCE

Min. 10 000 M Ω (at 25 °C)

OPERATING TEMPERATURE RANGE

-55 °C to +100 °C



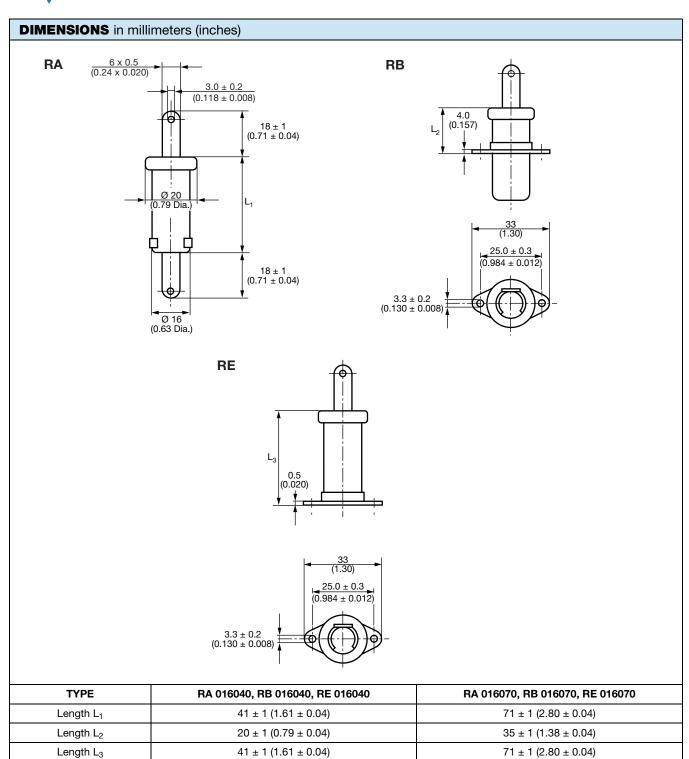
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PART NUMBER	CERAMIC	CAP. VALUES	RATED VOLTAGE	RATED POWER ⁽¹⁾	RATED CURRENT
		(pF)	(kV _p)	(kvar)	(A _{RMS})
TYPE R. 016040			T	Γ	<u> </u>
R#016040BC250##BF1	_	25			
R#016040BC300##BF1	_	30			
R#016040BC400##BF1	R7	40		3.5	
R#016040BC500##BF1	_	50			
R#016040BC600##BF1		60			
R#016040BC800##BG1	R16	80			
R#016040BC101##BH1		100		4.2	5.0
R#016040BC121##BH1	<u>_</u>	120	3.0		
R#016040BC161##BH1	R42	160			
R#016040BC201##BH1	1172	200			
R#016040BC251##BH1		250			
R#016040BC301##BH1		300			
R#016040BC401##BJ1	R85	400			
R#016040BC501##BJ1		500			
R#016040BC601##BJ1		600			
R#016040BC801##BJ1		800			
R#016040BC102##BJ1		1000			
TYPE R. 016070					
R#016070BC500##BF1	R7	50		5.6	5.6
R#016070BC600##BF1		60			
R#016070BC800##BF1		80			
R#016070BC101##BF1		100			
R#016070BC121##BG1	R16	120			
R#016070BC161##BG1		160			5.0
R#016070BC201##BH1	R42	200		7.0	
R#016070BC251##BH1		250	3.0		
R#016070BC301##BH1		300			
R#016070BC401##BH1		400			
R#016070BC501##BH1		500			
R#016070BC601##BH1		600			
R#016070BC801##BJ1		800	1		
R#016070BC102##BJ1	D05	1000			
R#016070BC122##BJ1	R85	1200			
R#016070BC162##BJ1		1600			

Notes

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

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



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