RA 016040, RA 016070



Vishay Draloric

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	RA 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 (\ge 1 nF)

INSULATION RESISTANCE

Min. 10 000 MΩ (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)	RATED POWER ⁽¹⁾ (kvar)	RATED CURRENT (A _{RMS})	
TYPE RA 016040			·			
RA016040BC250##BF1		25				
RA016040BC300##BF1		30				
RA016040BC400##BF1	R7	40		3.5		
RA016040BC500##BF1		50				
RA016040BC600##BF1		60				
RA016040BC800##BG1	R16	80				
RA016040BC101##BH1		100	3.0	4.2	5.0	
RA016040BC121##BH1		120				
RA016040BC161##BH1	5.42	160				
RA016040BC201##BH1	R42	200				
RA016040BC251##BH1		250				
RA016040BC301##BH1		300				
RA016040BC401##BJ1	R85	400				
RA016040BC501##BJ1		500				
RA016040BC601##BJ1		600				
RA016040BC801##BJ1		800				
RA016040BC102##BJ1		1000				
TYPE RA 016070						
RA016070BC500##BF1		50	3.0	5.6	5.0	
RA016070BC600##BF1	R7	60				
RA016070BC800##BF1		80				
RA016070BC101##BF1		100				
RA016070BC121##BG1	R16	120				
RA016070BC161##BG1		160		7.0		
RA016070BC201##BH1		200				
RA016070BC251##BH1		250				
RA016070BC301##BH1	R42	300				
RA016070BC401##BH1		400				
RA016070BC501##BH1		500				
RA016070BC601##BH1		600				
RA016070BC801##BJ1	R85	800				
RA016070BC102##BJ1		1000				
RA016070BC122##BJ1		1200				
RA016070BC162##BJ1		1600				

Notes

• ## 14th to 15th digit: capacitance tolerance code \pm 20 % = 38, \pm 10 % = 36, \pm 5 % = 33

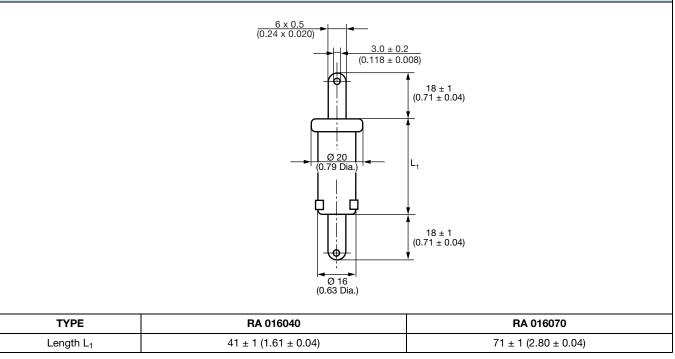
⁽¹⁾ The surface temperature during operation must not exceed +100 °C



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DIMENSIONS in millimeters (inches)



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



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