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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, 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 (≥ 1 nF)

INSULATION RESISTANCE

Min. 10 000 M Ω (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			
RA016040BC121##BH1		120			
RA016040BC161##BH1	D40	160	3.0	4.2	5.0
RA016040BC201##BH1	R42	200			
RA016040BC251##BH1		250			
RA016040BC301##BH1		300			
RA016040BC401##BJ1		400			
RA016040BC501##BJ1	R85	500			
RA016040BC601##BJ1		600			
RA016040BC801##BJ1		800			
RA016040BC102##BJ1		1000			
TYPE RA 016070				•	
RA016070BC500##BF1	R7 -	50		5.6	
RA016070BC600##BF1		60			
RA016070BC800##BF1		80			
RA016070BC101##BF1		100			
RA016070BC121##BG1	R16	120			
RA016070BC161##BG1		160			5.0
RA016070BC201##BH1		200		7.0	
RA016070BC251##BH1		250	3.0		
RA016070BC301##BH1	R42	300			
RA016070BC401##BH1		400			
RA016070BC501##BH1		500			
RA016070BC601##BH1		600			
RA016070BC801##BJ1		800	1		
RA016070BC102##BJ1	R85	1000			
RA016070BC122##BJ1		1200	1		
RA016070BC162##BJ1		1600	1		

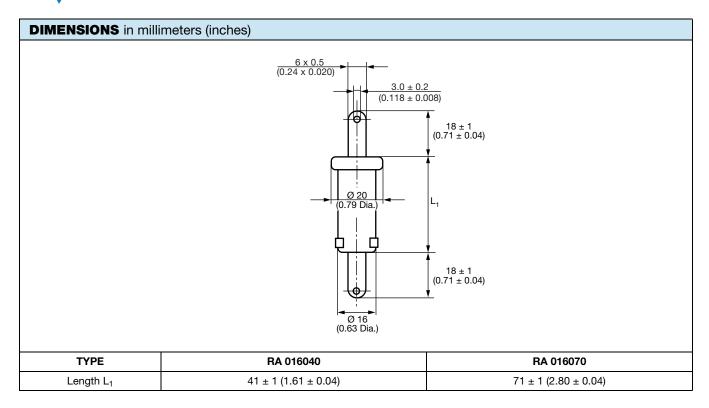
Notes

^{• ## 14}th 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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RELATED DOCUMENTS		
General Information	www.vishay.com/doc?22071	



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