



# 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 RC 016040 RE 016040	RA 016070 RB 016070 RC 016070 RE 016070			
Voltage (V <sub>p</sub> )	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**

 $3.0 \text{ kV}_p$ 

# **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 $\Omega$  (at 25 °C)

# **OPERATING TEMPERATURE RANGE**

-55 °C to +100 °C



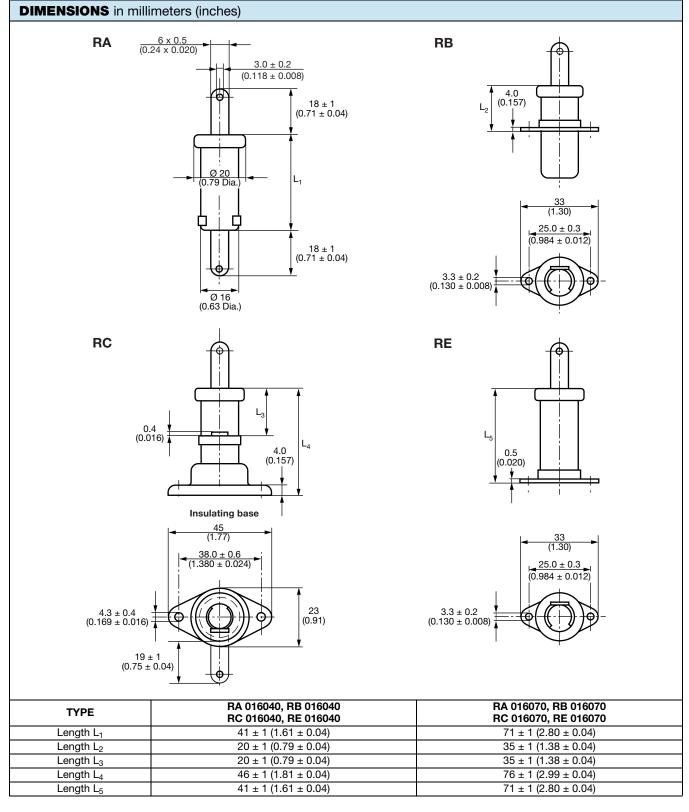
Vishay Draloric

PART NUMBER   CERAMIC   VALUES (PF)   PARTED (PWER 10)   CURRENT (Analos)   CURRENT (Analos)   CURRENT (Analos)	SAP PART NUMBER AND ELECTRICAL DATA					
R#016040BC250##BF1	PART NUMBER	CERAMIC	VALUES	VOLTAGE	POWER (1)	CURRENT
RH016040BC300#HBF1	TYPE R. 016040					
R#016040BC400#BF1	R#016040BC250##BF1		25		3.5	
R#016040BC500##BF1	R#016040BC300##BF1	R7	30			
R#016040BCS00##BF1   50	R#016040BC400##BF1		40			
R#016040BC800##BG1	R#016040BC500##BF1		50			
R#016040BC101##BH1	R#016040BC600##BF1		60			
R#016040BC121##BH1	R#016040BC800##BG1	R16	80			
R#016040BC161##BH1	R#016040BC101##BH1		100		4.2	5.0
R#016040BC201##BH1	R#016040BC121##BH1		120	3.0		
R#016040BC201##BH1	R#016040BC161##BH1	D40	160			
R#016040BC301##BH1       300       4.2         R#016040BC401##BJ1       400       4.2         R#016040BC501##BJ1       500       4.2         R#016040BC801#BJ1       800       4.2         R#016040BC301#BJ1       800       4.2         TYPE R. 016070B         TYPE R. 016070B         R#016070BC500#BF1       80       5.6         R#016070BC800#BF1       80       5.6         R#016070BC800#BF1       80       5.6         R#016070BC11#BF1       100       5.6         R#016070BC121#BG1       R16       160         R#016070BC201#BH1       200       7.0         R#016070BC201#BH1       300       7.0         R#016070BC301#BH1       400       7.0         R#016070BC301#BH1       500       7.0         R#016070BC301#BH1       600       7.0         R#016070BC301#BH1       800       7.0         R	R#016040BC201##BH1	H42	200			
R#016040BC401##BJ1	R#016040BC251##BH1		250			
R#016040BC501##BJ1	R#016040BC301##BH1	,	300			
R#016040BC601##BJ1       R85       600         R#016040BC801##BJ1       800         TYPE R. 016070       1000       1000         TYPE R. 016070       50         R#016070BC500#BF1       80         R#016070BC800#BF1       80         R#016070BC800#BF1       100         R#016070BC101##BF1       100         R#016070BC121##BG1       R16         R#016070BC121##BG1       120         R#016070BC201##BH1       200         R#016070BC201##BH1       250         R#016070BC301##BH1       300         R#016070BC401##BH1       400         R#016070BC501##BH1       500         R#016070BC601##BH1       600         R#016070BC801##BH1       800         R#016070BC102##BJ1       800         R#016070BC102##BJ1       800         R#016070BC102##BJ1       1000         R#016070BC102##BJ1       1000	R#016040BC401##BJ1	R85	400			
R#016040BC801##BJ1         800           R#016040BC102##BJ1         1000           TYPE R. 016070           R#016070BC500##BF1         ABO           R#016070BC800##BF1         BO           R#016070BC800##BF1         80           R#016070BC101##BG1         100           R#016070BC121##BG1         R16           R#016070BC201##BH1         200           R#016070BC201##BH1         250           R#016070BC301##BH1         300           R#016070BC401##BH1         400           R#016070BC501##BH1         500           R#016070BC801##BH1         600           R#016070BC801##BH1         800           R#016070BC801##BH1         800           R#016070BC801##BH1         800           R#016070BC801##BH1         800           R#016070BC801##BH1         800           R#016070BC82##BJ1         800           R#016070BC102##BJ1         1000           R#016070BC12##BJ1         1000	R#016040BC501##BJ1		500			
R#016040BC102##BJ1         1000           TYPE R. 016070           R#016070BC500##BF1         B0           R#016070BC600##BF1         B0           R#016070BC800##BF1         B0           R#016070BC101##BF1         100           R#016070BC121##BG1         R16           R#016070BC201##BH1         200           R#016070BC201##BH1         250           R#016070BC301##BH1         300           R#016070BC401##BH1         400           R#016070BC501##BH1         500           R#016070BC801##BH1         600           R#016070BC801##BJ1         800           R#016070BC102##BJ1         800           R#016070BC122##BJ1         1000           R#016070BC122##BJ1         1000	R#016040BC601##BJ1		600			
TYPE R. 016070   R#016070BC500##BF1	R#016040BC801##BJ1		800			
R#016070BC500##BF1   R7	R#016040BC102##BJ1		1000			
R#016070BC600##BF1       R7       60         R#016070BC800##BF1       80       5.6         R#016070BC101##BF1       100       5.6         R#016070BC121##BG1       R16       120         R#016070BC201##BH1       200       7.0         R#016070BC201##BH1       300         R#016070BC301##BH1       400         R#016070BC501##BH1       500         R#016070BC601##BH1       600         R#016070BC801##BH1       800         R#016070BC102##BJ1       800         R#016070BC102##BJ1       R85         R#016070BC122##BJ1       1200	TYPE R. 016070					
R#016070BC800##BF1   R7   80	R#016070BC500##BF1		50	3.0	5.6	5.0
R#016070BC800##BF1   80   5.6     R#016070BC101##BF1   100     R#016070BC121##BG1   R16   120     R#016070BC201##BH1   200     R#016070BC251##BH1   250   3.0     R#016070BC301##BH1   400   7.0     R#016070BC501##BH1   500   7.0     R#016070BC801##BH1   800     R#016070BC801##BJ1   R85   1000     R#016070BC102##BJ1   R85   1200     R#016070BC122##BJ1   R85   R85	R#016070BC600##BF1	R7	60			
R#016070BC121##BG1	R#016070BC800##BF1		80			
R#016070BC161##BG1   160   R#016070BC201##BH1   200     250     3.0     5.0     5.0     8#016070BC301##BH1   250   3.0     5.0     600   R#016070BC301##BH1   500   7.0     7.0     600   R#016070BC301##BH1   800   R#016070BC301##BJ1   800   R#016070BC102##BJ1   R85   1200   R85   1200   R85   R85	R#016070BC101##BF1		100			
R#016070BC161##BG1	R#016070BC121##BG1	R16	120			
R#016070BC251##BH1	R#016070BC161##BG1		160		7.0	
R#016070BC301##BH1     R42     300     3.0     5.0       R#016070BC401##BH1     400     7.0       R#016070BC501##BH1     500     7.0       R#016070BC601##BH1     600       R#016070BC801##BJ1     800       R#016070BC102##BJ1     1000       R#016070BC122##BJ1     1200	R#016070BC201##BH1	R42	200			
R#016070BC301##BH1     R42     300       R#016070BC401##BH1     400       R#016070BC501##BH1     500     7.0       R#016070BC601##BH1     600       R#016070BC801##BJ1     800       R#016070BC102##BJ1     1000       R#016070BC122##BJ1     1200	R#016070BC251##BH1		250			
R#016070BC401##BH1 400  R#016070BC501##BH1 500 7.0  R#016070BC601##BH1 600  R#016070BC801##BJ1 800  R#016070BC102##BJ1 1000  R#016070BC122##BJ1 1200	R#016070BC301##BH1		300			
R#016070BC601##BH1 600  R#016070BC801##BJ1 800  R#016070BC102##BJ1 1000  R#016070BC122##BJ1 1200	R#016070BC401##BH1		400			
R#016070BC801##BJ1 800 R#016070BC102##BJ1 1000 R#016070BC122##BJ1 1200	R#016070BC501##BH1		500			
R#016070BC102##BJ1 R85 1200	R#016070BC601##BH1		600			
R#016070BC122##BJ1 1200	R#016070BC801##BJ1		800			
R#016070BC122##BJ1 1200	R#016070BC102##BJ1	Doc	1000			
R#016070BC162##BJ1 1600	R#016070BC122##BJ1	H85	1200			
	R#016070BC162##BJ1		1600			

#### Notes

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





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