

RF Power Plate Capacitors with Contoured Rim, Class 1 Ceramic



FEATURES

- Small size
- High reliability
- Wide range of capacitance values

APPLICATIONS

- Induction and dielectric heating
- Antenna units
- Filter, bypass and coupling circuits

CAPACITANCE RANGE

5.6 pF to 2.0 nF

CAPACITANCE TOLERANCE

< 10 pF: ± 2 pF, ± 1 pF, ± 0.5 pF
 ≥ 10 pF: ± 20 %, ± 10 %, ± 5 %

CERAMIC DIELECTRIC

- R7 (TCC + 100 ppm/K)
- R16 (TCC + 100 ppm/K)
- R42 (TCC - 250 ppm/K)
- R85 (TCC - 750 ppm/K)
- N2200 (TCC - 2200 ppm/K)

RATED VOLTAGE

- 5.0 kV_p
- 7.5 kV_p

DIELECTRIC STRENGTH TEST

200 % of rated voltage, 50 Hz

DISSIPATION FACTOR

R7: Max. 0.07 %

R16: Max. 0.04 %

R42, R85: Max. 0.05 %

N2200: Max. 0.10 %

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

QUICK REFERENCE DATA

DESCRIPTION	VALUE				
Ceramic Class	1				
Ceramic Dielectric	R7, R16, R42, R85, N2200				
Type	PS 20	PS 30	PS 40	PS 55	
Voltage (V _p)	5000	5000	7500	5000	5000
Min. Capacitance (pF)	5.6	10	120	22	22
Max. Capacitance (pF)	270	560	120	1000	2000
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

MARKING

Type designator, capacitance value and tolerance, rated peak voltage, ceramic material code, production date code, manufacturer logo

ACCESSORIES ADDED

Two screws and washers



SAP PART NUMBER AND ELECTRICAL DATA					
PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV _p)	RATED POWER ⁽¹⁾ (kvar)	RATED CURRENT (A _{RM} S)
TYPE PS 20					
PS0020BE956##BF1	R7	5.6	5.0	5.0	5.0
PS0020BE968##BF1		6.8			
PS0020BE982##BG1	R16	8.2		10	
PS0020BE100##BG1		10			
PS0020BE120##BG1		12			
PS0020BE150##BG1		15			
PS0020BE180##BH1	R42	18		15	
PS0020BE200##BH1		20			
PS0020BE220##BH1		22			
PS0020BE270##BH1		27			
PS0020BE330##BH1	R85	33		25	
PS0020BE390##BJ1		39			
PS0020BE470##BJ1		47			
PS0020BE560##BJ1		56			
PS0020BE680##BJ1		68			
PS0020BE820##BJ1		82			
PS0020BE101##BJ1	N2200	100		10	
PS0020BE121##AP1		120			
PS0020BE151##AP1		150			
PS0020BE181##AP1		180			
PS0020BE221##AP1		220			
PS0020BE271##AP1		270			
TYPE PS 30					
PS0030BE100##BF1	R7	10	5.0	8.0	10
PS0030BE120##BF1		12			
PS0030BE150##BF1		15			
PS0030BE180##BF1		18			
PS0030BE200##BG1	R16	20		15	
PS0030BE220##BG1		22			
PS0030BE270##BG1		27			
PS0030BE300##BG1		30			
PS0030BE330##BG1		33			
PS0030BE390##BG1		39			
PS0030BE470##BH1	R42	47		20	
PS0030BE560##BH1		56			
PS0030BE680##BH1		68			
PS0030BE820##BH1		82			
PS0030BE101##BJ1	R85	100		30	
PS0030VZ121##BJ1		120	7.5		
PS0030BE151##BJ1		150	5.0		
PS0030BE181##BJ1		180			
PS0030BE201##BJ1		200			
PS0030BE221##AP1	N2200	220	15		
PS0030BE271##AP1		270			
PS0030BE331##AP1		330			
PS0030BE391##AP1		390			
PS0030BE471##AP1		470			
PS0030BE561##AP1		560			

Notes

- # 14th to 15th digit: Capacitance tolerance code < 10 pF: ± 2 pF = 15; ± 1 pF = 14; ± 0.5 pF = 13; ≥ 10 pF: ± 20 % = 38; ± 10 % = 36; ± 5 % = 33

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



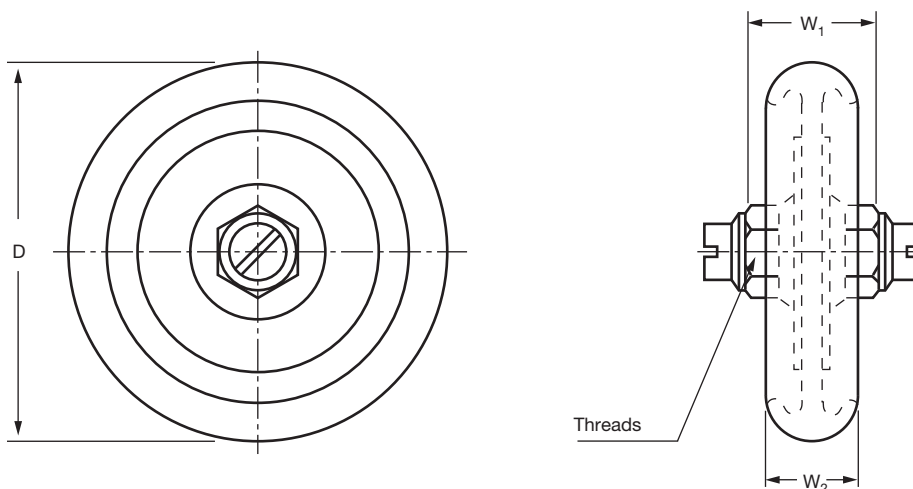
SAP PART NUMBER AND ELECTRICAL DATA						
PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV _p)	RATED POWER ⁽¹⁾ (kvar)	RATED CURRENT (A _{RM} S)	
TYPE PS 40						
PS0040BE220##BF1	R7	22	5.0	12	15	
PS0040BE270##BF1		27				
PS0040BE300##BG1	R16	30		20		
PS0040BE330##BG1		33				
PS0040BE390##BG1		39				
PS0040BE470##BG1		47				
PS0040BE560##BG1		56				
PS0040BE680##BG1		68				
PS0040BE820##BH1		R42				82
PS0040BE910##BH1	91					
PS0040BE101##BH1	100					
PS0040BE121##BH1	120					
PS0040BE151##BH1	150					
PS0040BE181##BJ1	R85	180		35		
PS0040BE201##BJ1		200				
PS0040BE221##BJ1		220				
PS0040BE241##BJ1		240				
PS0040BE251##BJ1		250				
PS0040BE271##BJ1		270				
PS0040BE331##BJ1		330				
PS0040BE361##BJ1		360				
PS0040BE391##BJ1		390				
PS0040BE471##AP1		N2200				470
PS0040BE561##AP1	560					
PS0040BE681##AP1	680					
PS0040BE821##AP1	820					
PS0040BE102##AP1	1000					
TYPE PS 55						
PS0055BE220##BF1	R7	22	5.0	15	18	
PS0055BE270##BF1		27				
PS0055BE330##BF1		33		40		
PS0055BE390##BF1		39				
PS0055BE470##BF1		47				
PS0055BE560##BG1	56					
PS0055BE680##BG1	R16	68				55
PS0055BE820##BG1		82				
PS0055BE101##BG1		100				
PS0055VZ121##BG1		120				
PS0055BE151##BH1	R42	150		25		
PS0055BE181##BH1		180				
PS0055BE221##BH1		220				
PS0055BE271##BH1		270				
PS0055BE331##BJ1	R85	330				55
PS0055BE391##BJ1		390				
PS0055BE471##BJ1		470				
PS0055BE511##BJ1		510				
PS0055BE561##BJ1		560				
PS0055BE681##BJ1		680				
PS0055BE821##AP1	N2200	820				25
PS0055BE102##AP1		1000				
PS0055BE122##AP1		1200				
PS0055BE152##AP1		1500				
PS0055BE182##AP1		1800				
PS0055BE202##AP1		2000				

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



DIMENSIONS in millimeters (inches)



TYPE	PS 20	PS 30	PS 40	PS 55
Diameter $D_{max.}$	25 (0.98)	35 (1.38)	45 (1.77)	57 (2.24)
Thread size	M5	M5	M6	M6
Width $W_{1 max.}$	22 (0.87)	22 (0.87)	21 (0.82)	21 (0.82)
Width $W_{2 max.}^{(1)}$	14 (0.55)	14 (0.55)	14 (0.55)	14 (0.55)

Note

⁽¹⁾ Dimension W_2 will vary depending upon capacitance



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