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Vishay Draloric

RF Power Plate Capacitors with Contoured Rim, Class 1 Ceramic



QUICK REFERENCE DATA					
DESCRIPTION	VALUE				
Ceramic Class	1				
Ceramic Dielectric	R7, R16, R42, R85, N2200				
Туре	PS 20	PS 30 PS 40 PS		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.

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
- \geq 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 kVp
- 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 MΩ (at 25 °C)

OPERATING TEMPERATURE RANGE

-55 °C to +100 °C

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Vishay Draloric

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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 PS 20		1	1	1	T
PS0020BE956##BF1	R7	5.6	_	5.0	
PS0020BE968##BF1		6.8	_		
PS0020BE982##BG1		8.2			
PS0020BE100##BG1	R16	10		10	
PS0020BE120##BG1		12			
PS0020BE150##BG1		15			
PS0020BE180##BH1		18			
PS0020BE200##BH1		20	_		
PS0020BE220##BH1	R42	22		15	
PS0020BE270##BH1		27			
PS0020BE330##BH1		33	5.0		5.0
PS0020BE390##BJ1		39	5.0		5.0
PS0020BE470##BJ1		47			
PS0020BE560##BJ1	R85	56		25	
PS0020BE680##BJ1	noj	68		25	
PS0020BE820##BJ1		82			
PS0020BE101##BJ1		100			
PS0020BE121##AP1		120			
PS0020BE151##AP1		150			
PS0020BE181##AP1	N2200	180		10	
PS0020BE221##AP1		220			
PS0020BE271##AP1		270			
TYPE PS 30					
PS0030BE100##BF1		10			
PS0030BE120##BF1	R7	12		8.0	
PS0030BE150##BF1	<i>п/</i>	15		0.0	
PS0030BE180##BF1		18			
PS0030BE200##BG1		20			
PS0030BE220##BG1		22			
PS0030BE270##BG1	D10	27		45	
PS0030BE300##BG1	R16	30	5.0	15	
PS0030BE330##BG1		33			
PS0030BE390##BG1		39			
PS0030BE470##BH1		47			
PS0030BE560##BH1	D 40	56	1		
PS0030BE680##BH1	R42	68	1	20	10
PS0030BE820##BH1		82	1		
PS0030BE101##BJ1		100	1		1
PS0030VZ121##BJ1		120	7.5	1	
PS0030BE151##BJ1	Doc	150	1	1	
PS0030BE181##BJ1	R85	180	1	30	
PS0030BE201##BJ1		200	1		
PS0030BE221##BJ1		220	1		
PS0030BE271##AP1		270	5.0		1
PS0030BE331##AP1		330	1		
PS0030BE391##AP1	N2200	390	1	15	
PS0030BE471##AP1		470	1		
PS0030BE561##AP1		560	1		
Notes		•	<u>.</u>		

• # 14th to 15th digit: capacitance tolerance code < 10 pF: \pm 2 pF = 15; \pm 1 pF = 14; \pm 0.5 pF = 13; \geq 10 pF: \pm 20 % = 38; \pm 10 % = 36; \pm 5 % = 33

$$\geq$$
 10 pF: ± 20 % = 38; ± 10 % = 36; ± 5 9

 $^{(1)}\,$ The surface temperature during operation must not exceed +100 $^\circ C$

Revision: 17-Feb-17



SAP PART NUMBER AND ELECTRICAL DATA

Vishay Draloric

PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV _p)	RATED POWER ⁽¹⁾ (kvar)	RATED CURRENT (A _{RMS})
TYPE PS 40			•		
PS0040BE220##BF1	D7	22		10	
PS0040BE270##BF1	R7	27		12	
PS0040BE300##BG1		30			
PS0040BE330##BG1		33			
PS0040BE390##BG1		39			
PS0040BE470##BG1	R16	47		20	
PS0040BE560##BG1		56			
PS0040BE680##BG1		68			
PS0040BE820##BH1		82			
PS0040BE910##BH1		91		25	
PS0040BE101##BH1	R42	100			
PS0040BE121##BH1		120			
PS0040BE151##BH1		150			
PS0040BE181##BJ1		180	5.0		15
PS0040BE201##BJ1		200			
PS0040BE221##BJ1	-	220			
PS0040BE241##BJ1		240			
PS0040BE251##BJ1	R85	250		35	
PS0040BE271##BJ1		270			
PS0040BE331##BJ1		330			
PS0040BE361##BJ1		360			
PS0040BE391##BJ1		390			
PS0040BE471##AP1	-	470			
PS0040BE561##AP1		560		20	
PS0040BE681##AP1	N2200	680			
PS0040BE821##AP1	-	820			
PS0040BE102##AP1		1000			
TYPE PS 55 PS0055BE220##BF1		22			[
PS0055BE270##BF1	-	22			
PS0055BE330##BF1	B7	33		15	
PS0055BE390##BF1	117	39		10	
PS0055BE470##BF1		47			
PS0055BE560##BG1		56			
PS0055BE680##BG1	-	68			
PS0055BE820##BG1	R16	82			
PS0055BE101##BG1		100			
PS0055BE121##BG1		120		40	
PS0055BE151##BH1		150			
PS0055BE181##BH1	П	180			
PS0055BE221##BH1	R42	220	5.0		10
PS0055BE271##BH1	1	270	5.0		18
PS0055BE331##BJ1		330			
PS0055BE391##BJ1]	390			
PS0055BE471##BJ1	DOF	470		FF	
PS0055BE511##BJ1	R85	510		55	
PS0055BE561##BJ1		560			
PS0055BE681##BJ1		680			
PS0055BE821##AP1		820			
PS0055BE102##AP1		1000			
PS0055BE122##AP1	N2200	1200		25	
PS0055BE152##AP1	112200	1500		20	
PS0055BE182##AP1		1800			
PS0055BE202##AP1		2000			

Notes

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

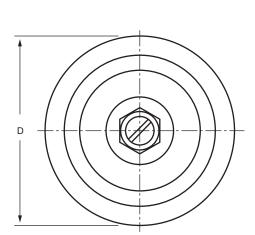
⁽¹⁾ The surface temperature during operation must not exceed +100 °C

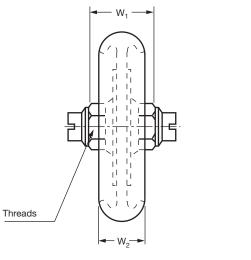


PS 20, PS 30, PS 40, PS 55 - Class 1 Ceramic

Vishay Draloric

DIMENSIONS in millimeters (inches)





ТҮРЕ	PS 20	PS 30	PS 40	PS 55
Diameter D	24 ± 1 (0.95 ± 0.04)	34.5 ± 1.5 (1.36 ± 0.06)	44.5 ± 1.5 (1.75 ± 0.06)	56 ± 2 (2.20 ± 0.08)
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⁾	16 (0.63)	16 (0.63)	15 (0.59)	15 (0.59)

Note

 $^{(1)}$ Dimension W₂ will vary depending upon capacitance

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



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