

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 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

 $< 10 \text{ pF: } \pm 2 \text{ pF, } \pm 1 \text{ pF, } \pm 0.5 \text{ pF}$ $\geq 10 \text{ pF: } \pm 20 \text{ \%, } \pm 10 \text{ \%, } \pm 5 \text{ \%}$

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_n

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



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		CAP.	RATED	RATED	RATED
PART NUMBER	CERAMIC	VALUES	VOLTAGE	POWER (1)	CURRENT
TYPE PS 20		(pF)	(kV _p)	(kvar)	(A _{RMS})
PS0020BE956##BF1		5.6			
PS0020BE968##BF1	R7	6.8	_	5.0	
PS0020BE982##BG1		8.2			
PS0020BE100##BG1		10			
PS0020BE120##BG1	R16	12		10	
PS0020BE150##BG1		15			
PS0020BE180##BH1		18			
PS0020BE200##BH1		20			
PS0020BE220##BH1	R42	22		15	
PS0020BE270##BH1	N42	27		15	
PS0020BE330##BH1		33			
PS0020BE390##BJ1		39	5.0		5.0
PS0020BE390##BJ1		47	-		
PS0020BE470##BJ1		56	1		
PS0020BE680##BJ1	R85	68		25	
PS0020BE820##BJ1		82			
PS0020BE101##BJ1		100			
PS0020BE121##AP1		120			
		150			
PS0020BE151##AP1	NOOOO		_	10	
PS0020BE181##AP1	N2200	180	_	10	
PS0020BE221##AP1		220			
PS0020BE271##AP1 TYPE PS 30		270			
PS0030BE100##BF1		10			
PS0030BE120##BF1		12			
PS0030BE150##BF1	R7	15		8.0	
PS0030BE180##BF1		18			
PS0030BE200##BG1		20			
PS0030BE220##BG1		22			
PS0030BE270##BG1		27	_		
PS0030BE300##BG1	R16	30	5.0	15	
PS0030BE330##BG1		33	-		
PS0030BE390##BG1		39	+		
PS0030BE470##BH1		47			-
PS0030BE560##BH1		56	+		
PS0030BE680##BH1	R42	68	+	20	10
PS0030BE820##BH1		82			
PS0030BE101##BJ1		100	1		
PS0030VZ121##BJ1		120	7.5	-	
PS0030BE151##BJ1		150	7.0	-	
PS0030BE181##BJ1	R85	180	-	30	
PS0030BE201##BJ1		200	-		
PS0030BE221##BJ1		220	-		
PS0030BE271##AP1		270	5.0		
PS0030BE331##AP1		330	-		
PS0030BE391##AP1	N2200	390	+	15	
PS0030BE471##AP1	INZZUU	470	+	10	
I GGGGGGL47 I##AF I		470			

Notes

^{• # 14&}lt;sup>th</sup> 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

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



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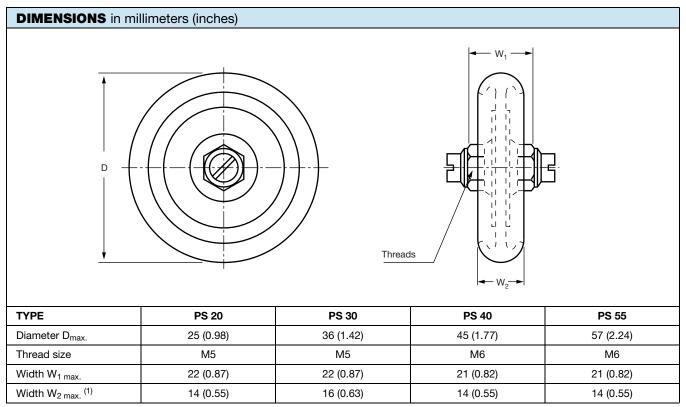
		CAP.	RATED	RATED	RATED
PART NUMBER	CERAMIC	VALUES	VOLTAGE	POWER (1)	CURRENT
TYPE PS 40		(pF)	(kV _p)	(kvar)	(A _{RMS})
PS0040BE220##BF1		22		1	
PS0040BE270##BF1	R7	27		12	
PS0040BE300##BG1		30			
PS0040BE330##BG1		33			
		39			
PS0040BE390##BG1 PS0040BE470##BG1	R16	47		20	
PS0040BE560##BG1		56			
PS0040BE680##BG1		68			
PS0040BE820##BH1		82			
PS0040BE910##BH1	D40	91		0.5	
PS0040BE101##BH1	R42	100		25	
PS0040BE121##BH1		120			
PS0040BE151##BH1		150	E 0		4.5
PS0040BE181##BJ1		180	5.0		15
PS0040BE201##BJ1		200			
PS0040BE221##BJ1 PS0040BE241##BJ1		220			
	Doc	240		0.5	
PS0040BE251##BJ1	R85	250		35	
PS0040BE271##BJ1		270			
PS0040BE331##BJ1		330			
PS0040BE361##BJ1		360			
PS0040BE391##BJ1		390			
PS0040BE471##AP1		470		00	
PS0040BE561##AP1		560			
PS0040BE681##AP1	N2200	680		20	
PS0040BE821##AP1		820			
PS0040BE102##AP1 TYPE PS 55		1000			
PS0055BE220##BF1		22			
PS0055BE270##BF1		27			
PS0055BE330##BF1	R7	33		15	
PS0055BE390##BF1	10	39		10	
PS0055BE470##BF1		47			
PS0055BE560##BG1		56			
PS0055BE680##BG1		68			
PS0055BE820##BG1	R16	82			
PS0055BE101##BG1	1110	100			
PS0055BE121##BG1		120		40	18
PS0055BE151##BH1		150		,,,	
PS0055BE181##BH1	R42	180			
PS0055BE221##BH1		220			
PS0055BE271##BH1		270	5.0		
PS0055BE331##BJ1		330			
PS0055BE391##BJ1		390			
PS0055BE471##BJ1		470			
PS0055BE511##BJ1	R85	510		55	
PS0055BE561##BJ1		560			
PS0055BE681##BJ1		680			
PS0055BE821##AP1		820			
PS0055BE102##AP1		1000			
PS0055BE122##AP1		1200			
PS0055BE152##AP1	N2200	1500		25	
I JUUJUL IJZ##MF I				1	
PS0055BE182##AP1		1800			

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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Note

⁽¹⁾ Dimension W₂ will vary depending upon capacitance



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