

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_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

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CAP. RATED RATED RATED								
PART NUMBER	CERAMIC	VALUES (pF)	VOLTAGE (kV _p)	POWER (1) (kvar)	CURRENT (A _{RMS})			
TYPE PS 20		(pi)	(K V p)	(KVai)	(ARMS)			
PS0020BE956##BF1	D7	5.6		5.0				
PS0020BE968##BF1	R7	6.8		5.0				
PS0020BE982##BG1		8.2						
PS0020BE100##BG1	D40	10		40				
PS0020BE120##BG1	R16	12		10				
PS0020BE150##BG1		15						
PS0020BE180##BH1		18						
PS0020BE200##BH1		20						
PS0020BE220##BH1	R42	22		15				
PS0020BE270##BH1		27						
PS0020BE330##BH1		33			5.0			
PS0020BE390##BJ1		39	5.0		5.0			
PS0020BE470##BJ1		47						
PS0020BE560##BJ1	Dos	56		0.5				
PS0020BE680##BJ1	R85	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	D7	12		0.0				
PS0030BE150##BF1	R7	15		8.0				
PS0030BE180##BF1		18						
PS0030BE200##BG1		20						
PS0030BE220##BG1		22						
PS0030BE270##BG1	D40	27		45				
PS0030BE300##BG1	R16	30	5.0	15				
PS0030BE330##BG1		33						
PS0030BE390##BG1		39						
PS0030BE470##BH1		47						
PS0030BE560##BH1	D40	56		00				
PS0030BE680##BH1	R42	68		20	10			
PS0030BE820##BH1		82						
PS0030BE101##BJ1		100						
PS0030VZ121##BJ1		120	7.5	1				
PS0030BE151##BJ1	Dos	150		1 00				
PS0030BE181##BJ1	R85	180		30				
PS0030BE201##BJ1		200						
PS0030BE221##BJ1		220						
PS0030BE271##AP1		270	5.0					
PS0030BE331##AP1		330	1					
PS0030BE391##AP1	N2200	390	1	15				
PS0030BE471##AP1		470	†					
			₫	1	ı			

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 $^{\circ}$ C



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SAP PART NUMBER AND ELECTRICAL DATA							
PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV _p)	POWER ⁽¹⁾ (kvar)	RATED CURRENT (A _{RMS})		
TYPE PS 40		•					
PS0040BE220##BF1	R7	22		12			
PS0040BE270##BF1	n/	27		12			
PS0040BE300##BG1		30					
PS0040BE330##BG1		33					
PS0040BE390##BG1	R16	39		20			
PS0040BE470##BG1	1110	47		20			
PS0040BE560##BG1		56					
PS0040BE680##BG1		68					
PS0040BE820##BH1		82					
PS0040BE910##BH1	D.10	91					
PS0040BE101##BH1	R42	100		25			
PS0040BE121##BH1		120					
PS0040BE151##BH1		150	F 0		4-		
PS0040BE181##BJ1		180	5.0		15		
PS0040BE201##BJ1		200					
PS0040BE221##BJ1		220					
PS0040BE241##BJ1	DOE	240		05			
PS0040BE251##BJ1	R85	250 270		35			
PS0040BE271##BJ1		330					
PS0040BE331##BJ1 PS0040BE361##BJ1		360					
PS0040BE391##BJ1		390					
PS0040BE391##BJ1 PS0040BE471##AP1		470					
PS0040BE561##AP1		560					
PS0040BE681##AP1	N2200	680		20			
PS0040BE821##AP1	NZZUU	820		20			
PS0040BE102##AP1		1000					
TYPE PS 55		1000					
PS0055BE220##BF1		22					
PS0055BE270##BF1		27					
PS0055BE330##BF1	R7	33		15			
PS0055BE390##BF1		39					
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	R42	180					
PS0055BE221##BH1	Π42	220	5.0		18		
PS0055BE271##BH1		270	5.0		10		
PS0055BE331##BJ1		330					
PS0055BE391##BJ1		390					
PS0055BE471##BJ1	R85	470		55			
PS0055BE511##BJ1	1100	510					
PS0055BE561##BJ1		560					
PS0055BE681##BJ1		680					
		820					
PS0055BE821##AP1		1000		1	İ		
PS0055BE102##AP1		1000					
PS0055BE102##AP1 PS0055BE122##AP1	N2200	1200		25			
PS0055BE102##AP1	N2200			25			

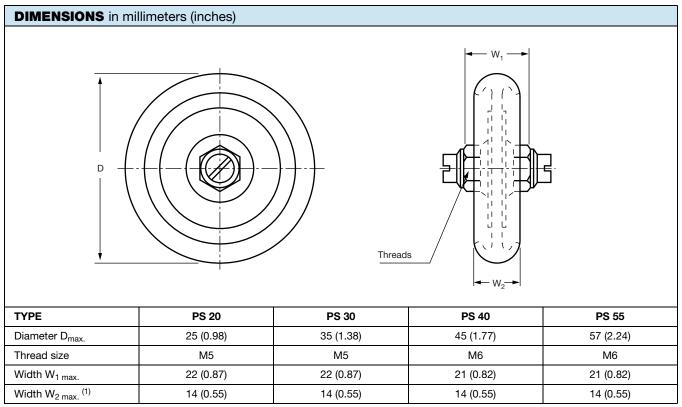
Notes

^{• # 14&}lt;sup>th</sup> 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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Revision: 02-Oct-12 Document Number: 91000