

Vishay Draloric

RF Power Plate Capacitors with Contoured Rim, **Class 2 Ceramic**



FEATURES

- Small size
- · High reliability
- · High capacitance values

APPLICATIONS

PS 20 to PS 55 plate capacitors made from class 2 ceramic dielectric can be used as coupling and bypass capacitors where low power ratings are required and larger capacitance changes with temperature can be tolerated.

QUICK REFERENCE DATA								
DESCRIPTION		VALUE						
Ceramic Class		2						
Ceramic Dielectric		Y5U, R3500						
Туре	PS 20	PS 30	PS 40	PS 55				
Voltage (V _p)	3500	3500	3500	2000	3500	4000		
Min. Capacitance (pF)	1000	2200	4700	27 000	15 000	10 000		
Max. Capacitance (pF)	1500	3300	6800	27 000	22 000	10 000		
Mounting		Screw terminal						

MATERIAL

Capacitor elements made from Class 2 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

CAPACITANCE RANGE

1000 pF to 27 nF

CAPACITANCE TOLERANCE

(-20+40) %

CERAMIC DIELECTRIC

Y5U (R3500)

RATED VOLTAGE

- 2.0 kVp
- 3.5 kVp
- 4.0 kV_n

DIELECTRIC STRENGTH TEST

200 % of rated voltage, 50 Hz

DISSIPATION FACTOR

Max. 2.5 % (1 kHz)

INSULATION RESISTANCE

Min. 5000 MΩ (at 25 °C)

OPERATING TEMPERATURE RANGE

- 25 °C to + 85 °C

Revision: 01-Mar-13

1 For technical questions, contact: powcap@vishay.com Document Number: 22084

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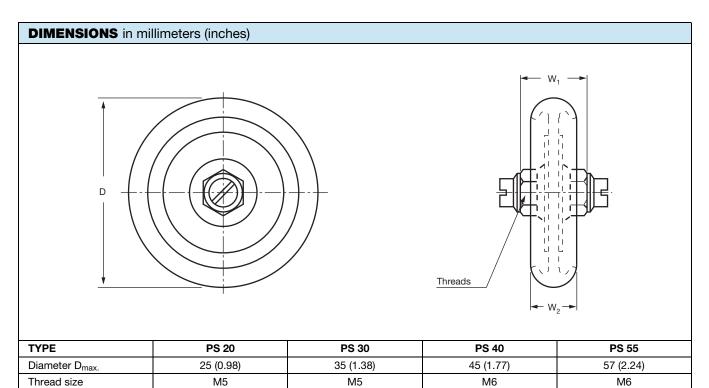
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SAP PART NUMBER AND ELECTRICAL DATA						
PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV _p)	RATED POWER ⁽¹⁾ (kvar)	RATED CURRENT (A _{RMS})	
TYPE PS 20						
PS0020VT10273BL1	Y5U (R3500)	1000	3.5	0.25	max. 5.0	
PS0020VT15273BL1	150 (R3500)	1500				
TYPE PS 30						
PS0030VT22273BL1	V511 (D2500)	2200	3.5	0.5	max. 10	
PS0030VT33273BL1	Y5U (R3500)	3300				
TYPE PS 40						
PS0040VT47273BL1		4700	3.5	1.0	max. 15	
PS0040VT56273BL1	Y5U (R3500)	5600				
PS0040VT68273BL1		6800				
TYPE PS 55						
PS0055BD10373BL1		10 000	4.0		max. 18	
PS0055VT15373BL1	Y5U (R3500)	15 000	3.5	1.0		
PS0055VT22373BL1	150 (h3500)	22 000	3.5			
PS0055BB27373BL1		27 000	2.0			

Note

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



Ν	ote

⁽¹⁾ Dimension W₂ will vary depending upon capacitance

26 (1.02)

17 (0.67)

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Width W_{1 max.}

Width W_{2 max.} ⁽¹⁾

26 (0.98)

17 (0.67)

23 (0.91)

16 (0.63)

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22 (0.87)

15 (0.59)

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