

## 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.

### CAPACITANCE RANGE

1000 pF to 27 nF

### CAPACITANCE TOLERANCE

(- 20 + 40) %

### CERAMIC DIELECTRIC

Y5U (R3500)

### RATED VOLTAGE

- 2.0 kV<sub>p</sub>
- 3.5 kV<sub>p</sub>
- 4.0 kV<sub>p</sub>

### 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

### QUICK REFERENCE DATA

DESCRIPTION	VALUE			
Ceramic Class	2			
Ceramic Dielectric	Y5U, R3500			
Type	PS 20	PS 30	PS 40	PS 55
Voltage (V <sub>p</sub> )	3500	3500	3500	2000, 3500, 4000
Min. Capacitance (pF)	1000	2200	4700	10 000
Max. Capacitance (pF)	1500	3300	6800	27 000
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

# PS 20, PS 30, PS 40, PS 55 - Class 2 Ceramic



Vishay Draloric

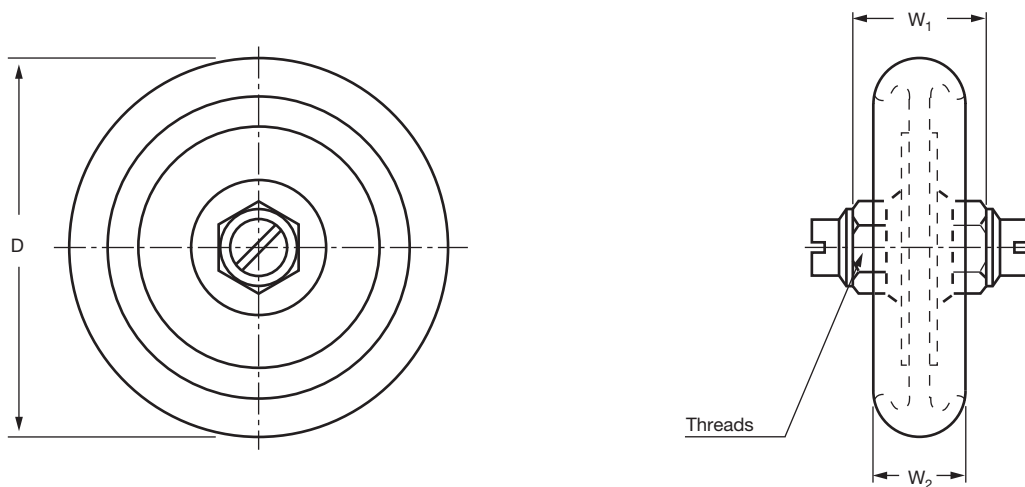
RF Power Plate Capacitors with Contoured Rim,  
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SAP PART NUMBER AND ELECTRICAL DATA					
PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV <sub>p</sub> )	RATED POWER <sup>(1)</sup> (kvar)	RATED CURRENT (A <sub>RMS</sub> )
<b>TYPE PS 20</b>					
PS0020VT10273BL1	Y5U (R3500)	1000	3.5	0.25	max. 5.0
PS0020VT15273BL1		1500			
<b>TYPE PS 30</b>					
PS0030VT22273BL1	Y5U (R3500)	2200	3.5	0.5	max. 10
PS0030VT33273BL1		3300			
<b>TYPE PS 40</b>					
PS0040VT47273BL1	Y5U (R3500)	4700	3.5	1.0	max. 15
PS0040VT56273BL1		5600			
PS0040VT68273BL1		6800			
<b>TYPE PS 55</b>					
PS0055BD10373BL1	Y5U (R3500)	10 000	4.0	1.0	max. 18
PS0055VT15373BL1		15 000	3.5		
PS0055VT22373BL1		22 000			
PS0055BB27373BL1		27 000	2.0		

**Note**

<sup>(1)</sup> 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 <sub>max.</sub>	25 (0.98)	35 (1.38)	45 (1.77)	57 (2.24)
Thread size	M5	M5	M6	M6
Width W <sub>1 max.</sub>	26 (1.02)	26 (0.98)	23 (0.91)	22 (0.87)
Width W <sub>2 max.</sub> <sup>(1)</sup>	17 (0.67)	17 (0.67)	16 (0.63)	15 (0.59)

**Note**

<sup>(1)</sup> Dimension W<sub>2</sub> will vary depending upon capacitance



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