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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 <sub>p</sub> )	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 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 M $\Omega$  (at 25 °C)

### **OPERATING TEMPERATURE RANGE**

-25 °C to +85 °C



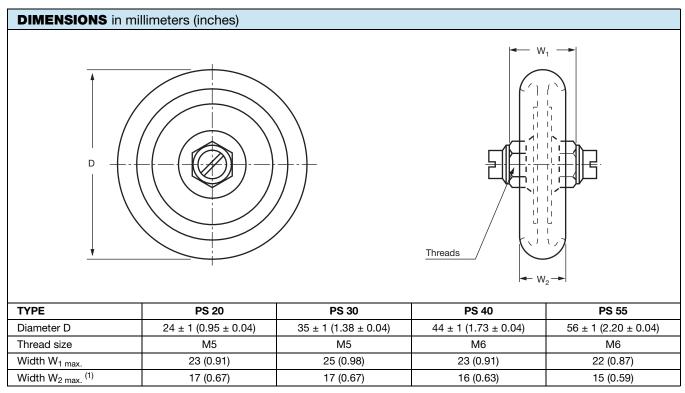
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SAP PART NUMBER AND ELECTRICAL DATA						
PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV <sub>p</sub> )	RATED POWER <sup>(1)</sup> (kvar)	RATED CURRENT (A <sub>RMS</sub> )	
TYPE PS 20						
PS0020VT10273BL1	Y5U (R3500)	1000	3.5	0.25	5.0	
PS0020VT15273BL1	130 (13300)	1500				
TYPE PS 30						
PS0030VT22273BL1	Y5U (R3500)	2200	3.5	0.5	10	
PS0030VT33273BL1	130 (h3300)	3300				
TYPE PS 40						
PS0040VT47273BL1		4700	3.5	1.0	15	
PS0040VT56273BL1	Y5U (R3500)	5600				
PS0040VT68273BL1		6800				
TYPE PS 55						
PS0055BD10373BL1	Y5U (R3500)	10 000	4.0	1.0	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



### Note

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

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



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