

**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 kVp
- 4.0 kVp

# **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

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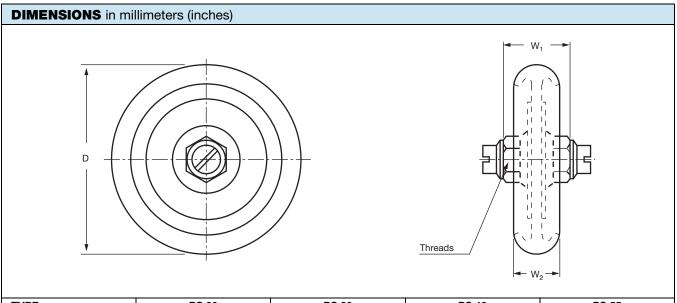
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SAP PART NUMBER AND ELECTRICAL DATA							
PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV <sub>p</sub> )	RATED POWER <sup>(1)</sup> (kvar)	RATED CURRENT (A <sub>RMS</sub> )		
TYPE PS 20							
PS0020VT10273BL1	Y5U (R3500)	1000	3.5	0.25	5.0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



ТҮРЕ	PS 20	PS 30	PS 40	PS 55
Diameter D	24 ± 1 (0.95 ± 0.04)	35 ± 1 (1.38 ± 0.04)	44 ± 1 (1.73 ± 0.04)	56 ± 1 (2.20 ± 0.04)
Thread size	M5	M5	M6	M6
Width W <sub>1 max.</sub>	23 (0.91)	25 (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

 $^{(1)}\,$  Dimension W\_2 will vary depending upon capacitance

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

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