

RF Power Plate Capacitors with Flat Rim, Class 1 Ceramic



FEATURES

- Low losses
- High reliability
- Small dimensions

APPLICATIONS

- Industrial high frequency appliances
- Medical RF equipment
- Filter, bypass, and coupling circuits

CAPACITANCE RANGE

100 pF to 1.0 nF

CAPACITANCE TOLERANCE

± 10 %

CERAMIC DIELECTRICS

- R42 (TCC - 250 ppm/K)
- R85 (TCC - 750 ppm/K)

RATED VOLTAGE

- 3.5 kV_{pp} (peak-to-peak voltage)
- 7.0 kV_{pp} (peak-to-peak voltage)
- 10 kV_p
- 12 kV_p
- 12 kV_{pp} (peak-to-peak voltage)

DIELECTRIC STRENGTH TEST

200 % of rated voltage (50 Hz)

DISSIPATION FACTOR

Max. 0.05 %

Measuring frequencies:

1 MHz (< 1 nF); 300 kHz or 100 kHz (≥ 1 nF)

INSULATION RESISTANCE

Min. 10 000 MΩ (at 25 °C)

OPERATING TEMPERATURE RANGE

- 55 °C to + 100 °C

QUICK REFERENCE DATA				
DESCRIPTION	VALUE			
Ceramic Class	1			
Ceramic Dielectric	R42, R85			
Type	FPS 60	FPS 80	FPS 110	
Voltage (V _p)	10 000	12 000	3500 (V _{pp})	7000 (V _{pp})
Min. Capacitance (pF)	500	100	1000	500
Max. Capacitance (pF)	500	300	1000	500
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, production date code, ceramic material code, manufacturer logo

ACCESSORIES ADDED

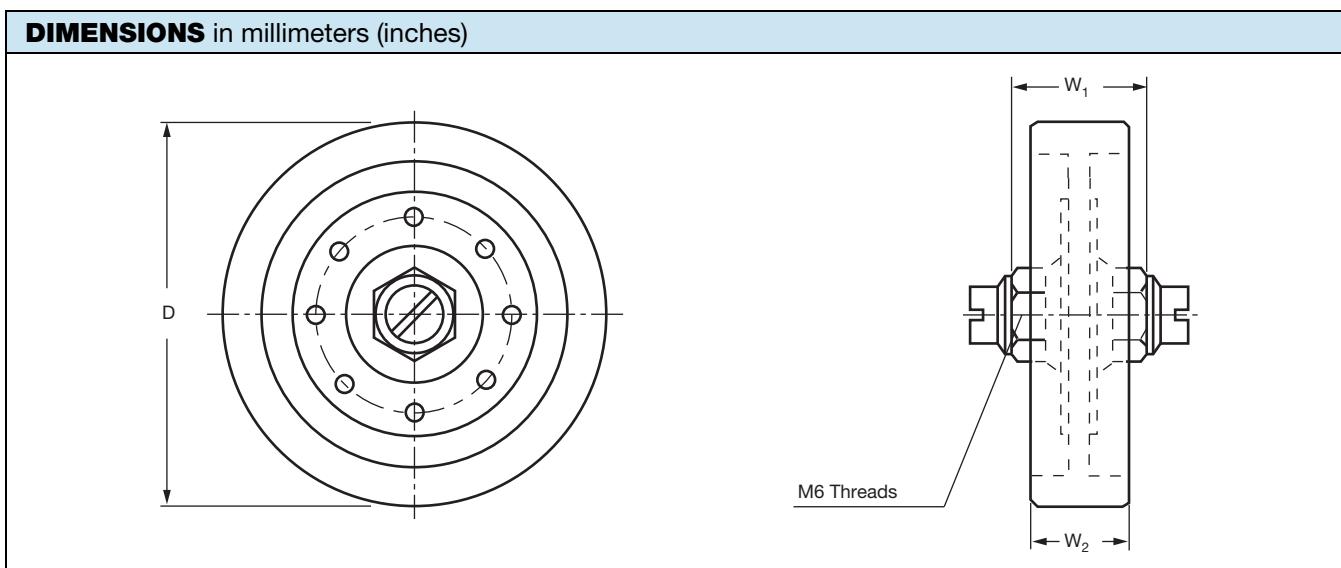
Two screws and washers

SAP PART NUMBER, ELECTRICAL AND DIMENSIONAL DATA								
PART NUMBER	CERAMIC	CAP. VALUE (pF)	RATED VOLTAGE (kV_p)⁽²⁾	RATED POWER (kvar)⁽¹⁾	RATED CURRENT (A_{RMS})	DIA. D_{MAX.} mm (inches)	WIDTH W₁ mm (inches)	WIDTH W₂ mm (inches)
TYPE FPS 60								
FPS060WF10136BH1	R42	100	12	10	13	62 (2.44)	29 ± 1 (1.14 ± 0.04)	20 ± 1 (0.79 ± 0.04)
FPS060WF20136BJ1		200					30 ± 1 (1.18 ± 0.04)	21 ± 1 (0.83 ± 0.04)
FPS060WF25136BJ1		250					29 ± 1 (1.14 ± 0.04)	20 ± 1 (0.79 ± 0.04)
FPS060WF30136BJ1		300					27 ± 1 (1.06 ± 0.04)	18 ± 1 (0.71 ± 0.04)
FPS060BH50136BJ1		500					25 ± 1 (0.98 ± 0.04)	16 ± 1 (0.63 ± 0.04)
TYPE FPS 80								
FPS080VY50136BJ1	R85	500	7.0	15	13	80 (3.15)	29 ± 3 (1.14 ± 0.12)	15 ± 3 (0.59 ± 0.12)
FPS080VT10236BJ1		1000	3.5	15	16		27 ± 3 (1.06 ± 0.12)	11 ± 3 (0.43 ± 0.12)
TYPE FPS 110								
FPS110BF10236BJ1	R85	1000	12	30	13	$110+0/-6$ ($4.33 + 0/- 0.24$)	30 ± 3 (1.18 ± 0.12)	16 ± 3 (0.63 ± 0.12)

Notes

(1) The surface temperature during operation must not exceed + 100 °C

(2) Peak-to-peak voltage


Note

- Dimensions W₂ will vary depending upon capacitance value

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