RF Power Plate Capacitors with Flat Rim, Class 1 Ceramic

QUICK REFERENCE DATA					
DESCRIPTION	VALUE				
Ceramic Class	1				
Ceramic Dielectric	R42, R85		R85		R85
Type	FPS 60		FPS 80		FPS 110
Voltage (V_p)	10 000	12 000	3500	7000	6000
Min. Capacitance (pF)	500	100	1000	500	1000
Max. Capacitance (pF)	500	300	1000	500	1000
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

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_p
- 6.0 kV_p
- 7.0 kV_p
- 10 kV_p
- 12 kV_p

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

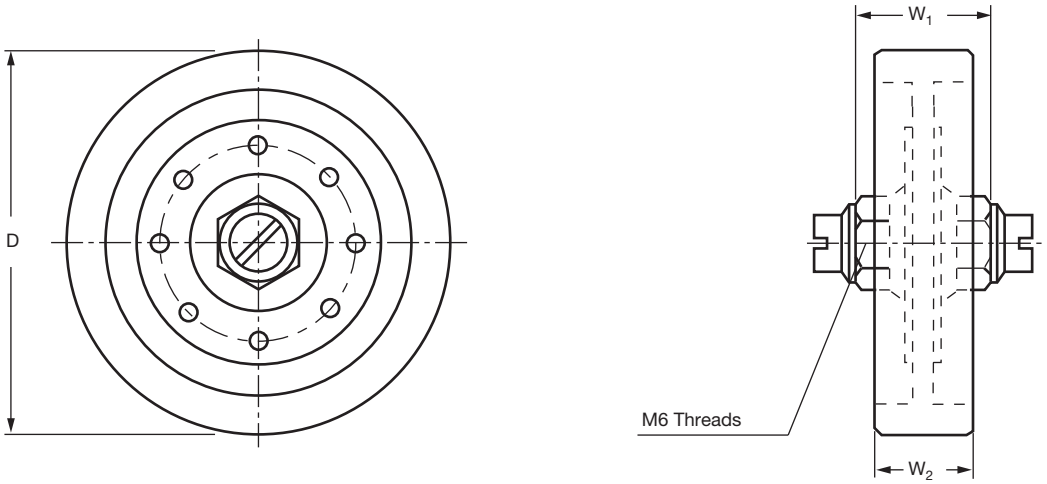
SAP PART NUMBER, ELECTRICAL AND DIMENSIONAL DATA

PART NUMBER	CERAMIC	CAP. VALUE (pF)	RATED VOLTAGE (kV_p)	RATED POWER (kvar) [1]	RATED CURRENT (A_{RMS})	DIA. $D_{MAX.}$ mm (inches)	WIDTH W_1 mm (inches)	WIDTH W_2 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	R85	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	10				25 ± 1 (0.98 ± 0.04)	16 ± 1 (0.63 ± 0.04)
TYPE FPS 80								
FPS080VY50136BJ1	R85	500	7.0	15	13	86 (3.39)	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	6	30	13	116 (4.57)	30 ± 3 (1.18 ± 0.12)	16 ± 3 (0.63 ± 0.12)

Note

[1] The surface temperature during operation must not exceed +100 °C

DIMENSIONS in millimeters (inches)



Note

- Dimensions W_2 will vary depending upon capacitance value

RELATED DOCUMENTS

General Information	www.vishay.com/doc?22071

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