

Vishay Draloric

RF Power Plate Capacitors for Higher Voltages Class 1 Ceramic



QUICK REFERENCE DATA											
DESCRIPTION	VALUE										
Ceramic Class	1										
Ceramic Dielectric	R16, R42, R85										
Туре	FPZ	140	PEZ 140								
Voltage (V _{pp})	27 000	30 000	15 000	25 000	30 000						
Min. Capacitance (pF)	200	50	1500	1000	600						
Max. Capacitance (pF)	200	500	2500	1000	800						
Mounting	Screw terminal										

MATERIAL

Capacitor elements made from Class 1 ceramic dielectric with noble metal electrodes.

Flexible connection terminals made from copper/brass, silver plated, to allow for series and parallel interconnection

FINISH

Capacitor body completely protective laquered (FPZ)
The contoured insulating rim is additionally glazed (PEZ)

MARKING

Type designator, capacitance value and tolerance, rated RF voltage, ceramic material code, production date code, manufacturer logo

ACCESSORIES ADDED

Two srews and washers

FEATURES

- Low losses
- High reliability
- High voltage ratings

APPLICATIONS

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

CAPACITANCE RANGE

50 pF to 2.5 nF

CAPACITANCE TOLERANCE

± 10 %

CERAMIC DIELECTRICS

- R16 (TCC + 100 ppm/K)
- R42 (TCC 250 ppm/K)
- R85 (TCC 750 ppm/K)

RATED VOLTAGE

- 15 kV_{pp} (peak-to-peak voltage)
- 25 kV_{pp} (peak-to-peak voltage)
- 27 kV_{pp} (peak-to-peak voltage)
- 30 kV_{pp} (peak-to-peak voltage)

DIELECTRIC STRENGTH TEST

200 % of rated AC voltage 50 Hz

DISSIPATION FACTOR

R16: Max. 0.04 % R42, R85: Max. 0.05 %

Measuring frequencies:

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

INSULATION RESISTANCE

Min. 10 000 M Ω (at 25 °C)

OPERATING TEMPERATURE RANGE

- 55 °C to + 100 °C

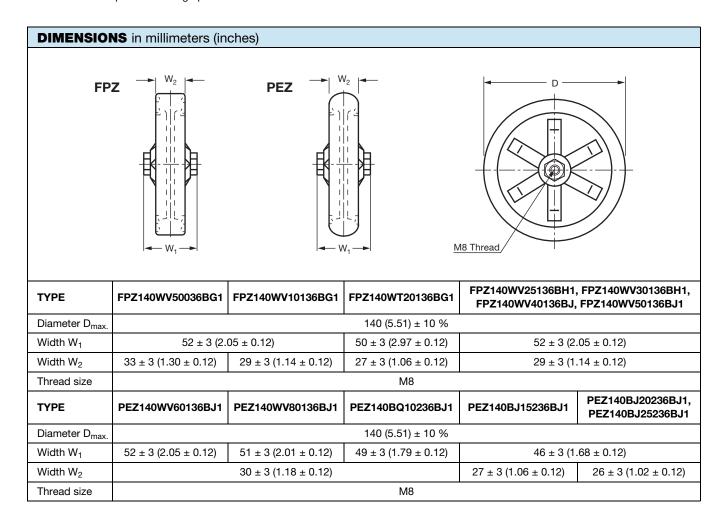


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SAP PART NUMBER AND ELECTRICAL DATA											
PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV _{PP})	RATED VOLTAGE AT 50 °C (kV _{DC})	RATED VOLTAGE AT 70 °C (kV _{DC})	RATED POWER ⁽¹⁾ AT 50 °C (kvar)	RATED POWER ⁽¹⁾ AT 70 °C (kvar)	RATED CURRENT MAX. (A _{RMS})			
TYPE FPZ 140											
FPZ140WV50036BG1	R16	50	30	25	20	90	60	35			
FPZ140WV10136BG1		100									
FPZ140WT20136BG1		200	27					27			
FPZ140WV25136BH1	R42	250	30								
FPZ140WV30136BH1		300									
FPZ140WV40136BJ1	R85	400						35			
FPZ140WV50136BJ1		500									
TYPE PEZ 140											
PEZ140WV60136BJ1	- R85	600	- 30	25	25	-		35			
PEZ140WV80136BJ1		800			20						
PEZ140BQ10236BJ1		1000	25	21	17	90	60				
PEZ140BJ15236BJ1		1500	15	13	10	90	60	45			
PEZ140BJ20236BJ1		2000									
PEZ140BJ25236BJ1		2500									

Note

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





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