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Vishay Draloric

# RF Power Plate Capacitors for Higher Voltages Class 1 Ceramic



QUICK REFERENCE DATA				
DESCRIPTION	VAL	.UE		
Ceramic Class	1	l		
Ceramic Dielectric	R85			
Туре	FPE 200	FPE 210		
Voltage (V <sub>p</sub> )	30 000			
Min. Capacitance (pF)	1000	1500		
Max. Capacitance (pF)	1000	1500		
Mounting	Screw terminal			

### **MATERIAL**

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

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

#### **MARKING**

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

#### **FINISH**

Noble metal electrodes and terminals protective lacquered. The contoured insulating rim is additionally glazed.

#### **FEATURES**

- Low losses
- · High reliability
- · High voltage ratings

#### **APPLICATIONS**

These high technology are designed for usage in high frequency heating and welding equipment where high voltage ratings are required.

#### **CAPACITANCE RANGE**

1000 pF to 1500 pF

#### **CAPACITANCE TOLERANCE**

± 20 %, ± 10 %

#### **CERAMIC DIELECTRIC**

R85 (TCC - 750 ppm/K)

#### **RATED VOLTAGE**

30 kV<sub>p</sub> (= RF peak voltage + DC voltage)

#### **DIELECTRIC STRENGTH TEST**

 $50~000~V_{DC},\,5$  minutes  $30~000~V_{AC},\,50~Hz,\,5$  minutes

#### **DISSIPATION FACTOR**

Max. 0.05 %

Measuring frequencies: 300 kHz or 100 kHz

#### **INSULATION RESISTANCE**

Min. 10 000 M $\Omega$  (at 25 °C)

#### **OPERATING TEMPERATURE RANGE**

-55 °C to +100 °C

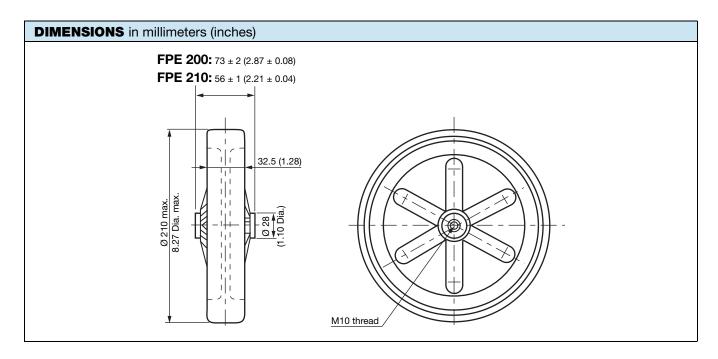


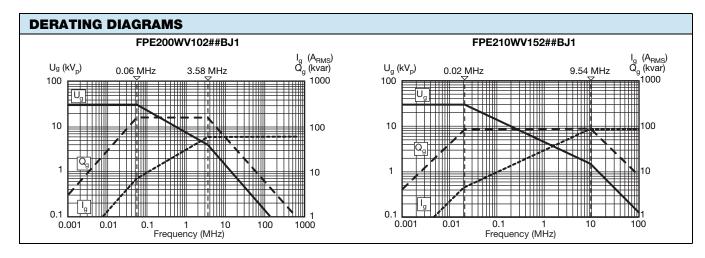
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SAP PART NUMBER AND ELECTRICAL DATA						
PART NUMBER	CERAMIC	CAP. VALUE (pF)	RATED VOLTAGE (1) (kV <sub>p</sub> )	RATED POWER <sup>(2)</sup> (kvar)	RATED CURRENT (A <sub>RMS</sub> )	
FPE200WV102##BJ1	- R85	1000	30	160	60	
FPE210WV152##BJ1		1500		90	90	

#### Notes

- ##  $14^{th}$  to  $15^{th}$  digit: capacitance tolerance code  $\pm$  20 % = 38,  $\pm$  10 % = 36
- (1) Rated voltage = RF peak value + DC voltage when min. 80 % U<sub>DC</sub>
- (2) The surface temperature during operation must not exceed +100 °C





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



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