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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 _p)	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_p (= 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 Ω (at 25 °C)

OPERATING TEMPERATURE RANGE

-55 °C to +100 °C

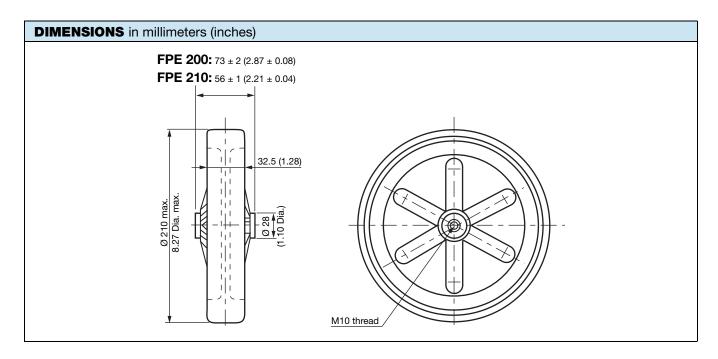


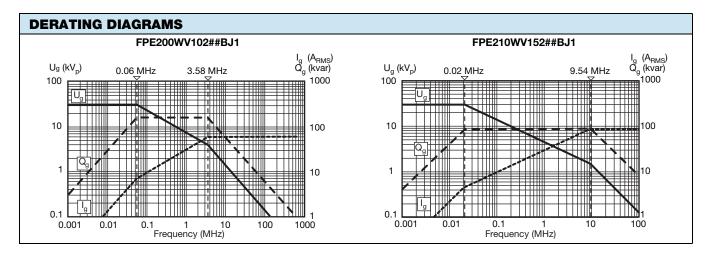
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SAP PART NUMBER AND ELECTRICAL DATA						
PART NUMBER	CERAMIC	CAP. VALUE (pF)	RATED VOLTAGE (1) (kV _p)	RATED POWER ⁽²⁾ (kvar)	RATED CURRENT (A _{RMS})	
FPE200WV102##BJ1	- R85	1000	30	160	60	
FPE210WV152##BJ1		1500		90	90	

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_{DC}
- (2) The surface temperature during operation must not exceed +100 °C





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



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