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Vishay Draloric

RF Power Plate Capacitors for Higher Voltages, Class 1 Ceramic



FEATURES

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

APPLICATIONS

These high quality power plate capacitors are designed for usage in high frequency heating, welding equipment, and working environments with effects of moisture, dust and other impurities where high voltage ratings are required.

QUICK REFERENCE DATA										
DESCRIPTION	VALUE									
Ceramic Class	1									
Ceramic Dielectric	R7, R16, R42, R85, R230									
Туре	PEF 220									
Voltage (V _p)	12 000	13 000	14 000	15 000	16 000	17 000	18 000	20 000		
Min. Capacitance (pF)	400	4000	300	7000	250	3000	500	160		
Max. Capacitance (pF)	6000	10 000	1600	8000	1200	3000	500	6000		
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, production date code, ceramic material code, manufacturer logo.

FINISH

Noble metal electrodes and terminals are protective lacquered.

The PEF 220 type features an insulating rim made from silicone elastomer to minimize the adverse effects of moisture, dust, and other impurities in the working environment and to improve the characteristics of the electrical field.

CAPACITANCE RANGE

160 pF to 10 nF

CAPACITANCE TOLERANCE

± 20 %, ± 10 %

CERAMIC DIELECTRIC

- R7 (TCC + 100 ppm/K)
- R16 (TCC + 100 ppm/K)
- R42 (TCC 250 ppm/K)
- R85 (TCC 750 ppm/K)
- R230 (TCC 750 ppm/K)

RATED VOLTAGE

- 12 kV_p
- 13 kV_p
- 14 kV_p
- 15 kV_p
- 16 kV_p
- 17 kV_p
- 18 kV_p
- 20 kV_p

DIELECTRIC STRENGTH TEST

200 % of rated voltage, 50 Hz

DISSIPATION FACTOR

R7: max. 0.07 % R16: max. 0.04 % R42, R85, R230: max. 0.05 %

Measuring frequencies:

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

INSULATION RESISTANCE

Min. 100 000 M Ω (at 25 °C)

OPERATING TEMPERATURE RANGE

-55 °C to +100 °C

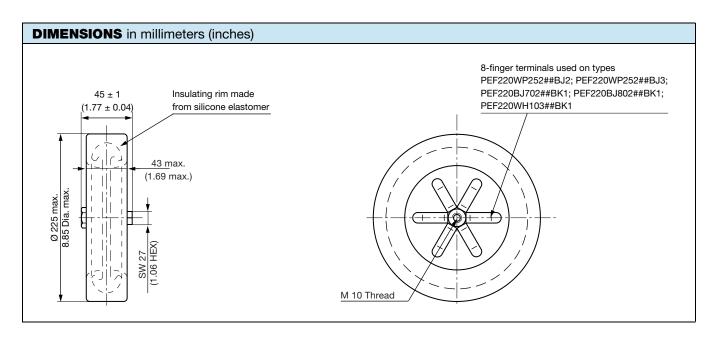


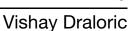
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PART NUMBER	CERAMIC	CAP. VALUE (pF)	RATED VOLTAGE (kV _p)	RATED POWER ⁽¹⁾ (kvar)	RATED CURRENT (A _{RMS})
PEF220WP161##BF1		160	20		
PEF220WP201##BF1		200	20		
PEF220WL251##BF1	R 7	250	16	110	60
PEF220WJ301##BF1		300	14		
PEF220WF401##BF1		400	12		
PEF220WN501##BG1	R 16	500	18	140	60
PEF220WL601##BG1	H 10	600	16	140	
PEF220WP801##BH1		800	20	140	
PEF220WP102##BH1	R 42	1000			60
PEF220WL122##BH1	K 42	1200	16	140	60
PEF220WJ162##BH1		1600	14		
PEF220WP202##BJ1		2000	20	140	60
PEF220WP252##BJ1		2500			
PEF220WP252##BJ3		2500			100
PEF220WP252##BJ2	R85	2500			125
PEF220WM302##BJ1	H00	3000	17	140	
PEF220WH402##BJ1		4000	13		60
PEF220WH502##BJ1		5000	13		60
PEF220WF602##BJ1		6000	12		
PEF220WP602##BK1		6000	20	140	60
PEF220BJ702##BK1	R 230	7000	15		
PEF220BJ802##BK1	H 23U	8000	15		100
PEF220WH103##BK1		10 000	13]	

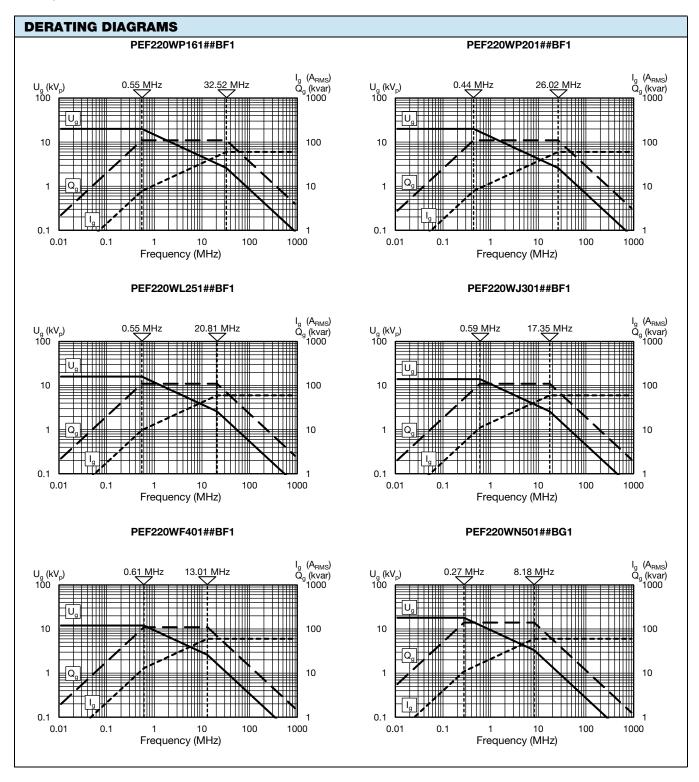
Notes

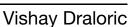
- ## 14^{th} to 15^{th} digit: capacitance tolerance code \pm 20 % = 38, \pm 10 % = 36
- (1) The surface temperature during operation must not exceed +100 °C



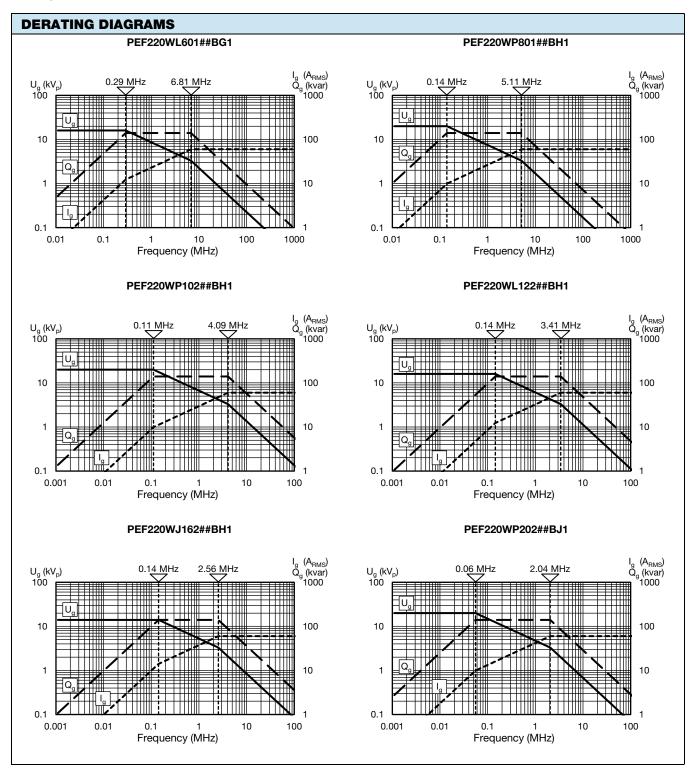






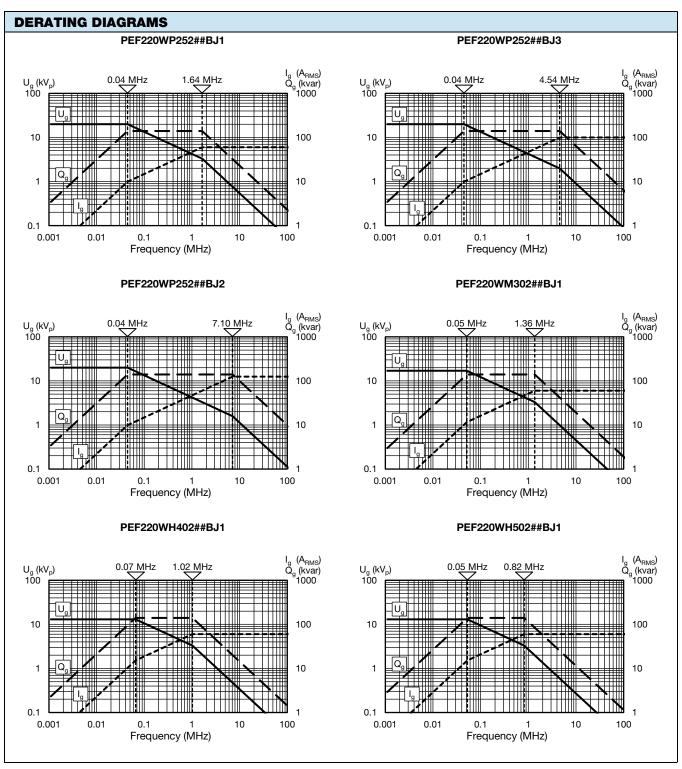






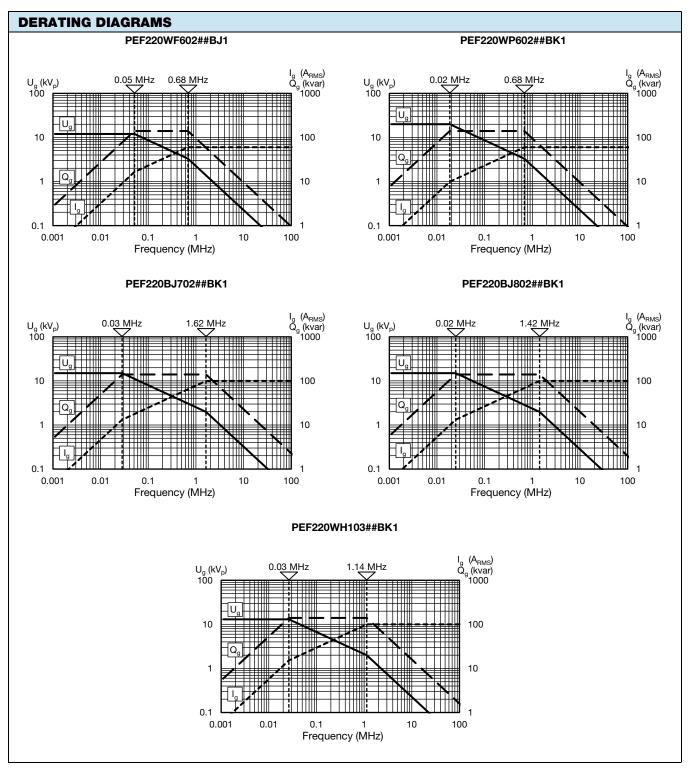


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RELATED DOCUMENTS				
General Information	www.vishay.com/doc?22071			

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