



RF Power Plate Capacitors for Higher Voltages Class 1 Ceramic



QUICK REFERENCE DATA					
DESCRIPTION	VALUE				
Ceramic Class	1				
Ceramic Dielectric	R7, R16, R42, R85, R230				
Туре	PEF 220				
Voltage (V _{pp})	12 000, 13 000, 14 000, 15 000, 16 000, 17 000, 18 000, 20 000				
Min. Capacitance (pF)	160				
Max. Capacitance (pF)	10 000				
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, dustand other impurities in the working environment and to improve the characteristics of the electrical field.

FEATURES

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

APPLICATIONS

These high technology are designed for usage in high frequency heating and welding equipment were high voltage ratings are required. The insulation rim made from silicone rubber minimize the adverse effects of moisture, dust, and other impurities in the working environment.

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

R16: Max. 0.04 % R7, 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

Document Number: 22083 Revision: 14-Apr-11

Vishay Draloric

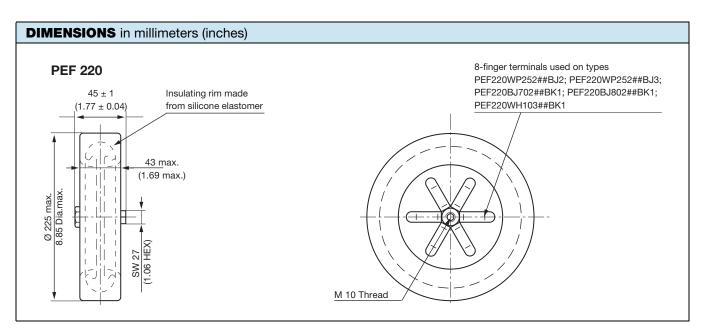
RF Power Plate Capacitors for Higher Voltages Class 1 Ceramic



SAP PART NUMBER AND ELECTRICAL DATA						
PART NUMBER	CERAMIC	CAP. VALUE (pF)	RATED VOLTAGE (kV _p)	RATED POWER ⁽¹⁾ (kvar)	RATED CURRENT (A _{RMS})	
TYPE PEF 220						
PEF220WP161##BF1	R 7	160	20	30	60	
PEF220WP201##BF1		200				
PEF220WL251##BF1		250	16	110		
PEF220WJ301##BF1		300	14			
PEF220WF401##BF1		400	12			
PEF220WN501##BG1	R 16	500	18	140	60	
PEF220WL601##BG1		600	16			
PEF220WP801##BH1	R 42	800	20	140	60	
PEF220WP102##BH1		1000				
PEF220WL122##BH1		1200	16			
PEF220WJ162##BH1		1600	14			
PEF220WP202##BJ1	R85	2000	20	140	60	
PEF220WP252##BJ1		2500				
PEF220WP252##BJ3		2500			100	
PEF220WP252##BJ2		2500			125	
PEF220WM302##BJ1		3000	17		60	
PEF220WH402##BJ1		4000	13			
PEF220WH502##BJ1		5000				
PEF220WF602##BJ1		6000	12			
PEF220WP602##BK1	R 230	6000	20	140	100	
PEF220BJ702##BK1		7000	15			
PEF220BJ802##BK1		8000				
PEF220WH103##BK1		10 000	13	1		

Notes

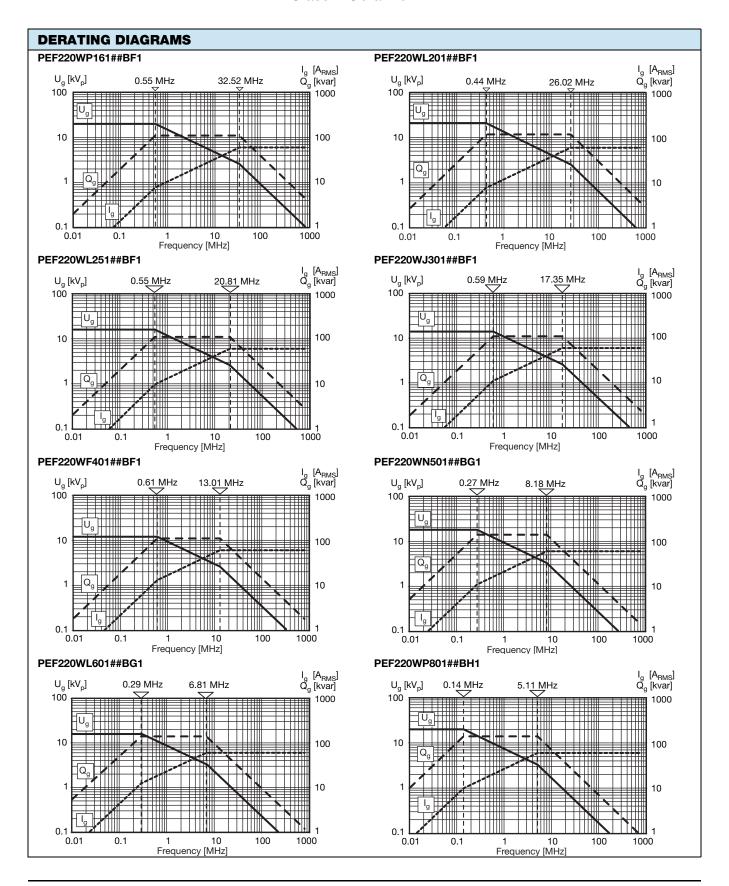
- ## 14th to 15th digit: Capacitance tolerance code \pm 20 % = 38, \pm 10 % = 36, \pm 5 % = 33
- $^{(1)}$ The surface temperature during operation must not exceed + 100 $^{\circ}$ C





RF Power Plate Capacitors for Higher Voltages Class 1 Ceramic

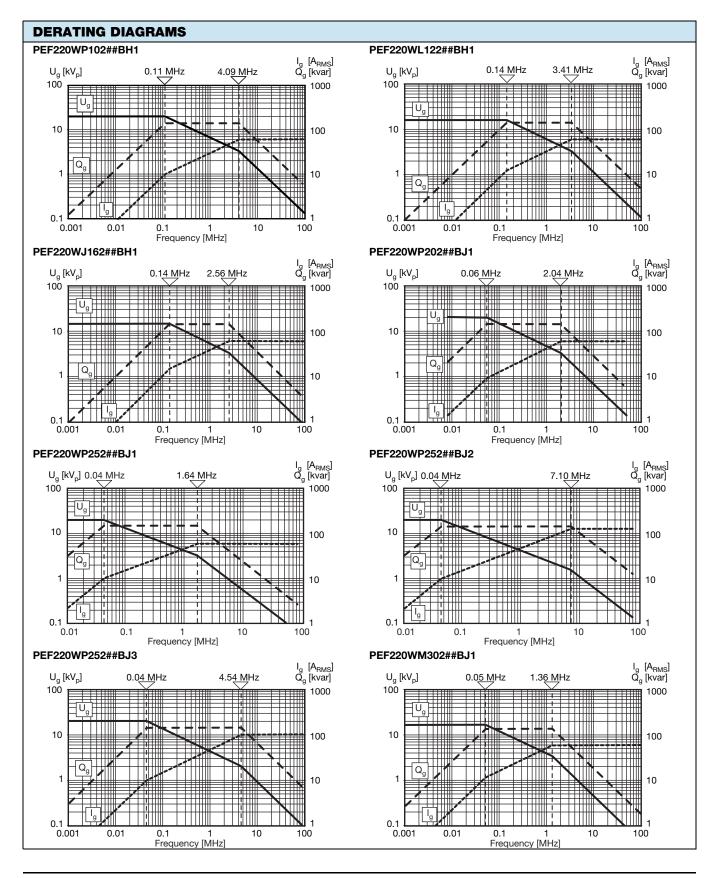
Vishay Draloric



Vishay Draloric

RF Power Plate Capacitors for Higher Voltages Class 1 Ceramic

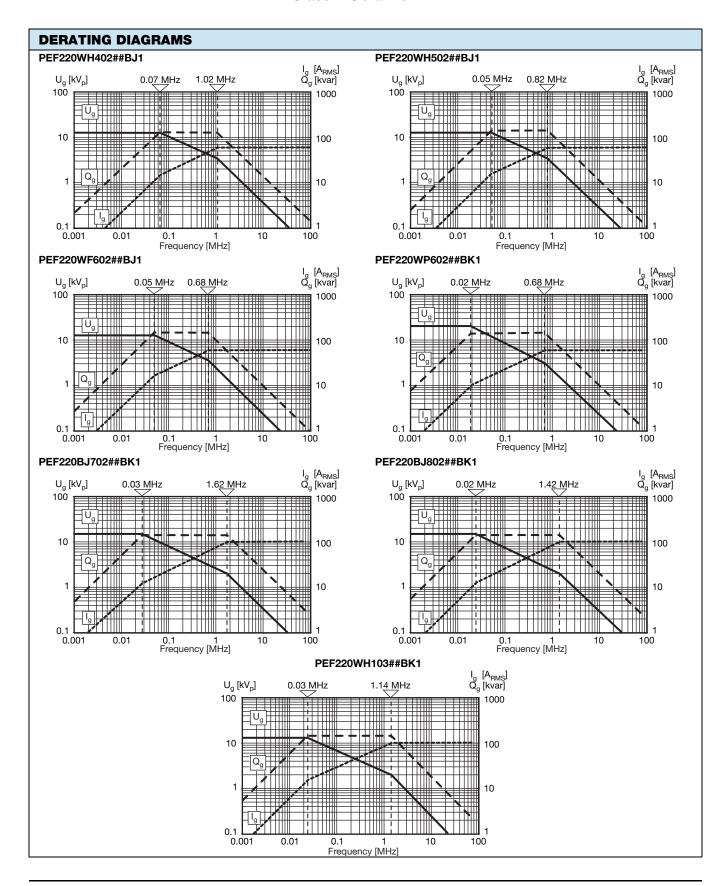






RF Power Plate Capacitors for Higher Voltages Class 1 Ceramic

Vishay Draloric





Legal Disclaimer Notice

Vishay

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and/or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

Material Category Policy

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as RoHS-Compliant fulfill the definitions and restrictions defined under Directive 2011/65/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.

Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as Halogen-Free follow Halogen-Free requirements as per JEDEC JS709A standards. Please note that some Vishay documentation may still make reference to the IEC 61249-2-21 definition. We confirm that all the products identified as being compliant to IEC 61249-2-21 conform to JEDEC JS709A standards.

Revision: 02-Oct-12 Document Number: 91000