

Vishay Draloric

RF Power Plate Capacitors with Contoured Rim, **Class 1 Ceramic**



FEATURES

- Low losses
- High reliability
- · Wide range of capacitance values

APPLICATIONS

- Induction and dielectric heating
- Antenna units
- Filter, bypass and coupling circuits

QUICK REFERENCE DATA																	
DESCRIPTION	VALUE																
Ceramic Class		1															
Ceramic Dielectric	R7, R16, R42, R85 R7, R16, R42, R85					R7, R16, R42, R85, R230				R7, R16, R42, R85							
Туре		PA 70,	PD 70		PA 100, PD 100, PE 100			PA140, PC140, PD140, PE140			PA 200, PC 200, PD 200, PE 200						
Voltage (V _p)	11 000	12 000	13 000	14 000	11 000	13 000	14 000	15 000	12 000	13 000	14 000	15 000	16 000	12 000	13 000	14 000	15 000
Min. Capacitance (pF)	800	80	120	25	1600	160	250	50	3000	600	300	100	3000	400	4000	300	160
Max. Capacitance (pF)	800	600	500	300	1600	1200	800	200	3000	2500	1600	400	3000	6000	5000	3000	800
Mounting		Screw terminal / band 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

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

MARKING

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

ACCESSORIES ADDED

Two screws and washers (PD, PE)

CAPACITANCE RANGE

25 pF to 6.0 nF

CAPACITANCE TOLERANCE

< 10 pF: ± 2 pF; ± 1 pF; ± 0.5 pF \geq 10 pF: ± 20 %; ± 10 %; ± 5 %

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)

Revision: 25-Feb-16

RATED VOLTAGE

- 11 kV_p
- 12 kV_p
- 13 kV_p
- 14 kV_p
- 15 kV_p
- 16 kVp

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. 10 000 MΩ (at 25 °C)

OPERATING TEMPERATURE RANGE

-55 °C to +100 °C

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PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV _P)	RATED POWER ⁽¹⁾ (kvar)	RATED CURRENT (A _{RMS})	
				(KVar)	PD	PA
TYPE P. 70						
P#0070WJ250##BF1	R7	25	14	15		
P#0070WJ300##BF1		30	14	15	16	
P#0070WJ400##BG1	R16	40				
P#0070WJ500##BG1		50	14	20		
P#0070WJ600##BG1		60		20		10
P#0070WF800##BG1		80	12			
P#0070WJ101##BH1		100	14			
P#0070WH121##BH1	R42	120	10	20		
P#0070WH161##BH1		160	13			
P#0070WJ201##BJ1		200				
P#0070WJ251##BJ1		250	14			
P#0070WJ301##BJ1		300				
P#0070WH401##BJ1	R85	400	10	20		
P#0070WH501##BJ1		500	13			
P#0070WF601##BJ1		600	12			
P#0070WE801##BJ1		800	11			

Note

· RoHS-compliant parts on request

PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV _P)	RATED POWER ⁽¹⁾ (kvar)	RATED CURRENT (A _{RMS})			
				(Kvar)	PE	PD	PA	
TYPE P. 100								
P#0100BJ500##BF1	D7	50	15	20				
P#0100BJ600##BF1	R7	60	15	30				
P#0100BJ800##BG1		80						
P#0100BJ101##BG1	R16	100	15					
P#0100BJ121##BG1		120		40				
P#0100WH161##BG1		160	13					
P#0100BJ201##BH1		200	15					
P#0100WJ251##BH1	R42	250	14	40	35	25	15	
P#0100WH301##BH1		300	13		30	20	10	
P#0100WJ401##BJ1		400						
P#0100WJ501##BJ1		500	14					
P#0100WJ601##BJ1		600	14					
P#0100WJ801##BJ1	R85	800		40				
P#0100WH102##BJ1		1000	13	1				
P#0100WH122##BJ1		1200	13					
P#0100WE162##BJ1		1600	11					

Notes

• # 2nd digit: code letter of terminal version A, C, D, E

• ## 14^{th} to 15^{th} digit: capacitance tolerance code $\pm 20 \% = 38; \pm 10 \% = 36; \pm 5 \% = 33$

• RoHS-compliant parts on request

 $^{(1)}$ The surface temperature during operation must not exceed +100 °C



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SAP PART NUMBER AND ELECTRICAL DATA								
PART NUMBER	CERAMIC	CAP. VALUES	RATED VOLTAGE (kV _P)	RATED POWER ⁽¹⁾	RATED CURRENT (A _{RMS})			
		(pF)		(kvar)	PE	PD	PA, PC	
TYPE P. 140								
P#0140BJ101##BF1	B7	100	15	67.5				
P#0140BJ121##BF1	n/	120	15					
P#0140BJ161##BG1		160	15	90	45	30		
P#0140BJ201##BG1	R16	200						
P#0140BJ251##BG1		250						
P#0140WJ301##BG1		300	14					
P#0140BJ401##BH1		400	15	90				
P#0140WJ501##BH1	D 40	500	14				20	
P#0140WH601##BH1	R42	600	10					
P#0140WH801##BH1		800	13					
P#0140WJ102##BJ1		1000			1			
P#0140WJ122##BJ1		1200	14	- 90				
P#0140WJ162##BJ1	Doc	1600						
P#0140WH202##BJ1	R85	2000	10					
P#0140WH252##BJ1		2500	13					
P#0140WF302##BJ1		3000	12	1				
P#0140WL302##BK1	R230	3000	16	90	45	(2)	(2)	

Note

• RoHS-compliant parts on request

SAP PART NUMBER AND ELECTRICAL DATA								
PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV _P)	RATED POWER ⁽¹⁾	RATED CURRENT (A _{RMS})			
				(kvar)	PE	PD	PA, PC	
TYPE P. 200								
P#0200BJ161##BF1		160	15	112	60	40		
P#0200BJ201##BF1	R7	200					1	
P#0200BJ251##BF1		250						
P#0200WJ301##BF1		300	14					
P#0200WF401##BF1		400	12					
P#0200BJ501##BG1	R16	500	- 15	150				
P#0200BJ601##BG1	пю	600						
P#0200BJ801##BH1		800	15	150			25	
P#0200WJ102##BH1	R42	1000	14					
P#0200WJ122##BH1	R42	1200						
P#0200WJ162##BH1		1600						
P#0200WJ202##BJ1		2000						
P#0200WJ252##BJ1		2500	14	- 150				
P#0200WJ302##BJ1	D95	3000						
P#0200WH402##BJ1	R85	4000	- 13					
P#0200WH502##BJ1		5000						
P#0200WF602##BJ1		6000	12	1				

Notes

• # 2nd digit: code letter of terminal version A, C, D, E

• ## 14th to 15th digit: capacitance tolerance code $\pm 20 \% = 38$; $\pm 10 \% = 36$; $\pm 5 \% = 33$

RoHS-compliant parts on request

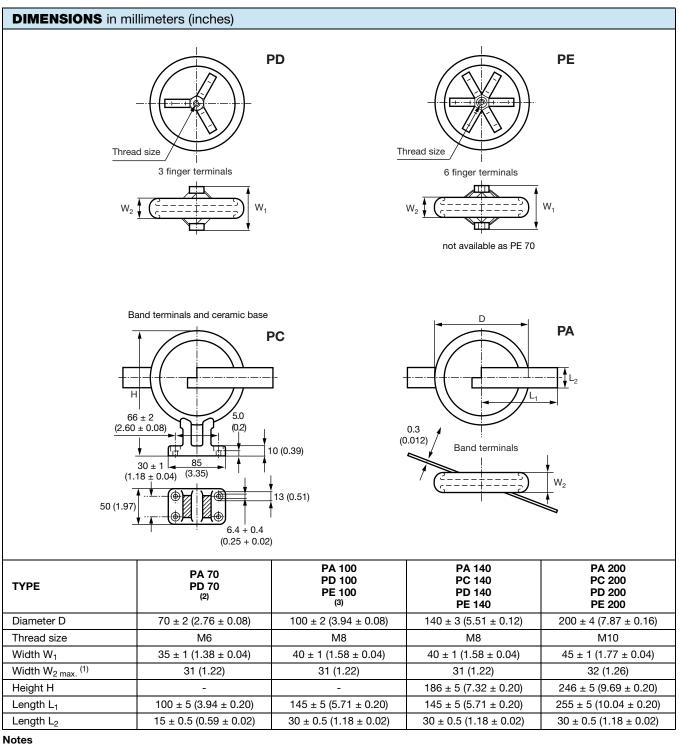
⁽¹⁾ The surface temperature during operation must not exceed +100 °C

(2) Only PE type available



P. 70, P. 100, P. 140, P. 200

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⁽¹⁾ Dimension W₂ will vary depending upon capacitance

⁽²⁾ Types PC 70 and PE 70 are not available

(3) Type PC 100 is not available

RELATED DOCUMENTS

General Information	www.vishay.com/doc?22071

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Document Number: 22082



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