

## PF 开关电源品 (CD288H型)



● 105°C , 高频低阻抗。

105°C , Low impedance for High frequency.

● 适用于开关电源、彩显等电路。

Used in switching power supply and color display circuits.

### Specifications

项目 Items	特性 Characteristics											
工作温度范围 Operating temperature range	-40~+105°C						-25~+105°C					
额定电压范围 Rated voltage range	6.3V~250V DC						400V~450V DC					
静电容量范围 Nominal capacitance tolerance	0.47 μ F~15000 μ F											
静电容量误差 Capacitance tolerance	±20% (120Hz~20°C)											
漏电流 (20°C) leakage current(20°C)	WV ≤ 100V I ≤ 0.01CV or 3 μ A after 2 minute (whichever is greater)											
	WV > 100V I ≤ 0.03CV + 10 μ A after 3 minute											
I: Leakage current C: Normal capacitance V: Rated voltage												
损耗角正切 Dissipation factor (120Hz~20°C)	Rated voltage(V)	6.3	10	16	25	35	50	63	100	160~250	400~450	
	tgδ(MAX)	0.22	0.19	0.16	0.14	0.12	0.10	0.08	0.08	0.20	0.24	
	When capacitance is more than 1000μF, tgδ will add 0.02 per 1000μF addition.											
低温特性 Low temperature characteristics (Impedance ratio max. at 120Hz)	Rated voltage(v)	6.3	10	16	25	35	50	63	100	160~250	400	450
	Z <sub>-25°C</sub> /Z <sub>+20°C</sub>	4	3	2	2	2	2	2	2	3	5	6
	Z <sub>-40°C</sub> /Z <sub>+20°C</sub>	8	6	4	3	3	3	3	3	6		
高温负荷特性 Load Life	After applying rated for 2000~3000 hours at 105°C then resumed 16 hours:											
	Capacitance change	Within ±20% of the initial measured value						ΦD	5~8	≥10		
	tgδ	≤200% of the initial specified value						Load life	2000h	3000h		
	Leakage current	≤initial specified value										
高温贮存特性 Shelf Life	After storage for 1000 hours at 105°C then resumed 16 hours:											
	Capacitance change	Within ±20% of the initial measured value										
	tgδ	≤200% of the initial specified value										
	Leakage current	≤initial specified value										

### Diagram of Dimensions(mm)

<p>Safety vent (φ8 up) * φ6.3 is available by request</p>	φD	5	6.3	8	10	13	16	18
	F±0.5	2.0	2.5	3.5	1.5	2.0	2.5	3.5
	φd±0.05	0.5	0.5	0.5	0.6	0.6	0.8	0.8
	α	1.0	1.0	1.0	1.5	1.5	2.0	2.0

### Multiplier for Ripple Current vs. Frequency:

WV(V)	CAP(μF)\Hz	50(60)	120	1K	10K	100K
≤100	CAP < 100	0.45	0.55	0.75	0.90	1.00
	100 ≤ CAP < 1000	0.60	0.70	0.85	0.95	1.00
	CAP ≥ 1000	0.70	0.80	0.95	0.98	1.00
≥160	CAP < 1000	0.55	0.65	0.80	0.90	1.00

### Multiplier for Ripple Current vs. Temperature:

Temperature °C	~55	60	70	85	105
Factor	2.23	2.17	2.00	1.75	1.00

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### Standard Ratings

WV(Coad)		6.3V(0J)			10V(1A)			16V(1C)			25V(1E)		
C(uf)	Coad	φD×L	R.C.	IMP	φD×L	R.C.	IMP	φD×L	R.C.	IMP	φD×L	R.C.	IMP
4.7	4R7												
10	100												
22	220												
33	330												
47	470										5x11	210	0.580
68	680							5x11	210	0.580	6.3x11	340	0.220
100	101	5x11	210	0.580	5x11	210	0.580	6.3x11	340	0.022	6.3x11	340	0.220
150	151	5x11	210	0.580	6.3x11	340	0.220	6.3x11	340	0.022	8x12	640	0.130
220	221	6.3x11	340	0.220	6.3x11	340	0.220	8x12	640	0.130	8x12	640	0.130
330	331	6.3x11	340	0.220	8x12	640	0.130	8x12	640	0.130	10x12	865	0.080
470	471	8x12	640	0.130	8x12	640	0.130	10x12	865	0.080	10x16	1210	0.060
680	681	8x12	640	0.130	10x12	865	0.080	10x16	1210	0.060	10x20	1400	0.046
1000	102	10x12	865	0.800	10x16	1210	0.060	10x20	1400	0.046	13x21	1650	0.042
1500	152	10x16	1210	0.060	10x20	1400	0.046	13x21	1650	0.042	13*25	1900	0.035
2200	222	10x20	1400	0.046	13x21	1650	0.042	13*25	1900	0.035	16*25	2124	0.030
3300	332	13x21	1650	0.042	13*25	1900	0.035	16*25	2124	0.030	16x32	2650	0.025
4700	472	13*25	1900	0.035	16*25	2124	0.030	16x32	2650	0.025	18x36	3029	0.022
6800	682	16*25	2124	0.030	16x32	2650	0.025	18x36	3029	0.022			
10000	103	16*32	2650	0.025	18x36	3029	0.022						
15000	153	18*36	3029	0.022									

WV(Coad)		35V(1V)			50V(1H)			63(1J)			100(2A)		
C(uf)	Coad	φD×L	R.C.	IMP	φD×L	R.C.	IMP	φD×L	R.C.	IMP	φD×L	R.C.	IMP
0.47	R47				5x11	25	5.400						
1	010				5x11	40	3.500						
2.2	2R2				5x11	55	3.000						
3.3	3R3				5x11	65	2.600						
4.7	4R7				5x11	90	2.300	5x11	85	2.000	5x11	85	2.000
10	100	5x11	180	0.650	5x11	120	1.400	5x11	95	1.800	6.3x11	115	1.200
22	220	5x11	210	0.580	5x11	150	1.200	6.3x11	115	0.960	8x12	232	0.500
33	330	5x11	210	0.580	6.3x11	250	0.430	6.3x11	115	0.960	10x12	288	0.340
47	470	6.3x11	340	0.220	6.3x11	250	0.430	8x12	232	0.500	10x12	288	0.344
68	680	6.3x11	340	0.220	8x12	340	0.240	8x12	232	0.500	10x16	357	0.248
100	101	8x12	640	0.130	8x12	340	0.240	10x12	288	0.344	10x20	466	0.168
150	151	8x12	640	0.130	10x12	490	0.170	10x16	357	0.248	13x21	690	0.128
220	221	10x12	865	0.080	10x16	650	0.120	10x20	466	0.168	13x25	784	0.096
330	331	10x16	1210	0.060	10x20	810	0.100	13x21	690	0.128	16*25	1250	0.058
470	471	10x20	1400	0.046	13x21	1100	0.085	13x25	784	0.096	16x32	1570	0.043
680	681	13x21	1650	0.042	13x25	1200	0.065	16*25	1250	0.058	18*36	2020	0.032
1000	102	13*25	1900	0.035	16*25	1600	0.043	16x32	1570	0.043	18*40	2330	0.029
1500	152	16*25	2124	0.030	16*32	2000	0.038	18*36	2020	0.032			
2200	222	16x32	2650	0.025	18*36	2300	0.034	18*40	2330	0.029			
3300	332	18x36	3029	0.022									

Permit ripple current: (mArms, 105°C, 100KHZ);

Case size: φD×L (mm)

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### Standard Ratings

WV(Coad)		160 (2C)			200 (2D)			250 (2E)		
C(uf)	Coad	φD×L	R.C.	IMP	φD×L	R.C.	IMP	φD×L	R.C.	IMP
1	010									
2.2	2R2									
3.3	3R3							10×12	90	8.00
4.7	4R7	8×12	120	4.00	10×12	162	3.00	10×17	138	5.25
10	100	10×12	162	3.00	10×17	208	2.25	10×20	167	4.20
22	220	10×17	208	2.25	10×20	266	1.65	13×21	240	2.60
33	330	10×20	266	1.65	13×21	366	1.07	13×25	340	1.80
47	470	13×21	366	1.07	13×25	500	0.69	16×25	558	0.90
100	101	16×25	675	0.36	16×32	967	0.36	18×32	779	0.45
220	221	16×36	890	0.30	18×36	1142	0.21	18×40	833	0.41
330	331	18×36	1142	0.21						
470	471	18×40	1307	0.18						

  

WV(Coad)		400 (2G)			450 (2W)					
C(uf)	Coad	φD×L	R.C.	IMP	φD×L	R.C.	IMP			
2.2	010				8×12	45	12.00			
3.3	2R2	10×12	88	6.00	10×12	58	8.50			
4.7	3R3	10×17	183	3.45	10×20	135	6.20			
10	100	10×17	183	3.45	13×21	230	3.70			
22	220	13×21	300	1.80	13×25	260	2.60			
33	330	16×25	558	1.22	16×32	480	1.00			
47	470	18×26	608	0.65	18×26	620	0.69			
68	680	18×32	680	0.55	18×32	660	0.65			
100	101	18×36	806	0.45	18×40	870	0.60			

Permit ripple current: (mArms, 105°C, 100KHZ);

Case size: φD×L (mm)

Permit impedance : (Ω, 20°C, 100KHZ)