

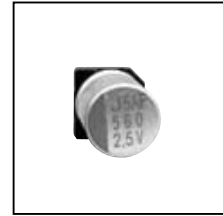
# SOLID CAPACITOR

## PF Series

Aluminum Solid Electrolytic Capacitor  
With Conductive Polymer



- Super low E.S.R. impedance and high heat resistance.
- Suitable for DC-DC converters, voltage regulators and decoupling applications used for computer motherboards etc.

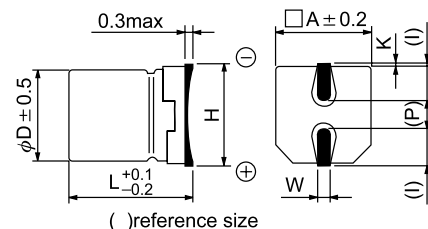


### ● SPECIFICATION

Item	Characteristic					
Operation Temperature Range	-55 ~ +105°C					
Rated Working Voltage	2.5 ~ 16V					
Capacitance Tolerance (120Hz 20°C)	±20%					
Leakage Current (2min)	The initial specified value in Characteristic list					
Surge Voltage (20°C)	W.V.	2.5	4	6.3	10	16
	S.V.	2.8	4.6	7.2	11.5	18.4
Tangent of loss angle (120Hz)	The initial specified value or loss (in Characteristic list)					
Impedance Ratio	Impedance ratio at 100kHz					
	Rated Voltage (V)	2.5	4	6.3	10	16
	-55°C / +20°C	≤1.25				
	+105°C / +20°C	≤1.25				
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 105°C					
	Capacitance Change	≤ ±20% of the initial measured value				
	Dissipation Factor	≤ 150% of the initial specified value				
	ESR	≤ 150% of the initial specified value				
	Leakage current	≤ initial specified value				
Bias Humidity Test	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjecting them to DC voltage at 60°C,90 to 95% RH for 1000 hours					
	Capacitance Change	≤ ±20% of the initial measured value				
	Dissipation Factor	≤ 150% of the initial specified value				
	ESR	≤ 150% of the initial specified value				
	Leakage current	≤ initial specified value				
Surge Voltage Test	The capacitors shall be subjected to 1000 cycles each consisting of charge with the surge voltage specified at 105°C for 30 seconds through a protective resistor (R=1kΩ) and discharge for 5 minutes 30 seconds.					
	Capacitance Change	≤ ±20% of the initial measured value				
	Dissipation Factor	≤ 150% of the initial specified value				
	ESR	≤ 150% of the initial specified value				
	Leakage current	≤ initial specified value				
Failure Rate	1% per 1000 hours maximum (Confidence level 60% at 105°C)					

### ● DIMENSIONS (mm)

D	L	A	H (max)	I	W	P	K
5	5.4	5.3	6.5	2.2	0.65	1.50	0.35
6.3	5.4	6.6	6.5	2.6	0.65	2.10	0.35
8	6.2	8.3	9.5	3.4	0.65	2.20	0.35
8	9.0	8.3	10.0	3.4	0.90	3.10	0.70
10	6.2	10.3	12.0	3.5	0.90	4.60	0.70
10	9.0	10.3	12.0	3.5	0.90	4.60	0.70



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● CASE SIZE & CHARACTERISTICS LIST

Rated Voltage (V.DC)	Rated Capacitance (µF)	Case size		Leakage Current (µA)	Tangent of loss angle (max)	E. S. R. at 100kHz (mΩ)	Allowable ripple current (mA.rms)	Part Number
		φD	L					
		(mm)						
2.5	56	5.0	5.4	28	0.06	40	1400	PFM560M0ED05W
	120	6.3	5.4	60	0.06	35	1400	PFM121M0EE05W
	220	6.3	5.4	110	0.06	35	2560	PFM221M0EE05W
	220	8.0	6.2	110	0.06	25	2560	PFM221M0EF06W
	470	8.0	10.0	235	0.06	10	4800	PFM471M0EF10W
	560	8.0	10.0	280	0.06	8	5500	PFM561M0EF10W
	680	8.0	10.0	340	0.06	8	5500	PFM681M0EF10W
	820	8.0	10.0	410	0.06	8	5500	PFM821M0EF10W
	1000	8.0	10.0	500	0.06	8	5500	PFM102M0EF10W
	1200	8.0	10.0	600	0.06	8	5500	PFM122M0EF10W
	390	10.0	6.2	195	0.06	15	3700	PFM391M0EG06W
	1500	10.0	10.2	750	0.06	7	6100	PFM152M0EG10W
1800	10.0	10.2	900	0.06	7	6100	PFM182M0EG10W	
2200	10.0	10.2	1100	0.06	7	6100	PFM222M0EG10W	
4	47	5.0	5.4	38	0.06	40	1400	PFM470M0GD05W
	100	6.3	5.4	80	0.06	35	1400	PFM101M0GE05W
	180	8.0	6.2	144	0.06	25	2560	PFM181M0GF06W
	390	8.0	10.0	312	0.06	8	5500	PFM391M0GF10W
	560	8.0	10.0	448	0.06	8	5500	PFM561M0GF10W
	680	8.0	10.0	544	0.06	8	5500	PFM681M0GF10W
	820	8.0	10.0	656	0.06	8	5500	PFM821M0GF10W
	1000	8.0	10.0	800	0.06	8	5500	PFM102M0GF10W
	330	10.0	6.2	264	0.06	15	3700	PFM331M0GG06W
	1200	10.0	10.2	960	0.06	7	6100	PFM122M0GG10W
	1500	10.0	10.2	1200	0.06	7	6100	PFM152M0GG10W
6.3	39	5.0	5.4	49	0.06	45	1400	PFM390M0JD05W
	82	6.3	5.4	103	0.06	40	1400	PFM820M0JE05W
	150	8.0	6.2	189	0.06	30	2560	PFM151M0JF06W
	330	8.0	10.0	416	0.06	13	4800	PFM331M0JF10W
	560	8.0	10.0	706	0.06	8	5500	PFM561M0JF10W
	680	8.0	10.0	857	0.06	8	5500	PFM681M0JF10W
	270	10.0	6.2	340	0.06	17	3700	PFM271M0JG06W
	820	10.0	10.2	1033	0.06	7	6100	PFM821M0JG10W
	1000	10.0	10.2	1260	0.06	7	6100	PFM102M0JG10W
10	33	5.0	5.4	66	0.06	50	1200	PFM330M1AD05W
	68	6.3	5.4	136	0.06	45	1200	PFM680M1AE05W
	120	8.0	6.2	240	0.06	40	2300	PFM121M1AF06W
	270	8.0	10.0	540	0.06	10	4500	PFM271M1AF10W
	470	8.0	10.0	940	0.06	10	4800	PFM471M1AF10W
	220	10.0	6.2	440	0.06	20	3300	PFM221M1AG06W
	680	10.0	10.2	1360	0.06	8	5500	PFM681M1AG10W
	1000	10.0	10.2	2000	0.06	8	5500	PFM102M1AG10W
16	18	5.0	5.4	58	0.06	55	1200	PFM180M1CD05W
	47	6.3	5.4	150	0.06	50	1200	PFM470M1CE05W
	82	8.0	6.2	262	0.06	40	2300	PFM820M1CF06W
	180	8.0	10.0	576	0.06	15	4400	PFM181M1CF10W
	150	10.0	6.2	480	0.06	25	3300	PFM151M1CG06W
	150	10.0	10.2	480	0.06	20	3500	PFM151M1CG10W
330	10.0	10.2	1056	0.06	12	5100	PFM331M1CG10W	