

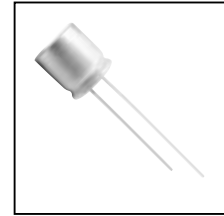
# SOLID CAPACITOR

# PH Series

Aluminum Solid Electrolytic Capacitor  
With Conductive Polymer



- Height:8mmL
- 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.
- Endurance:105°C 2000 hours.

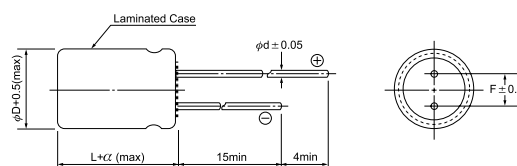


## SPECIFICATION

Item	Characteristic							
Operation Temperature Range	-55 ~ +105°C							
Rated Working Voltage	2.5 ~ 25V							
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	20	25
	S.V.	2.8	4.6	7.2	11.5	18.4	23	28.7
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	20	25
	-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)

φD	8 x 8
F	3.5
D	0.6
α	1.0



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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	560	8.0	8.0	280	0.06	6	6100	PHR561M0EF08W
	820	8.0	8.0	410	0.06	6	6100	PHR821M0EF08W
	1000	8.0	8.0	500	0.06	6	6100	PHR102M0EF08W
4	560	8.0	8.0	448	0.06	6	6100	PHR561M0GF08W
	680	8.0	8.0	544	0.06	6	6100	PHR681M0GF08W
	820	8.0	8.0	656	0.06	6	6100	PHR821M0GF08W
6.3	470	8.0	8.0	592	0.06	7	5700	PHR471M0JF08W
	560	8.0	8.0	706	0.06	7	5700	PHR561M0JF08W
	680	8.0	8.0	857	0.06	7	5700	PHR681M0JF08W
10	330	8.0	8.0	660	0.06	9	5000	PHR331M1AF08W
16	100	8.0	8.0	320	0.06	14	3640	PHR101M1CF08W
20	82	8.0	8.0	328	0.06	24	3200	PHR820M1DF08W
25	33	8.0	8.0	165	0.06	24	3200	PHR330M1EF08W