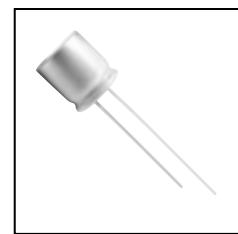


SOLID CAPACITOR
PH
 Series

 Aluminum Solid Electrolytic Capacitor
 With Conductive Polymer

JAMICON®

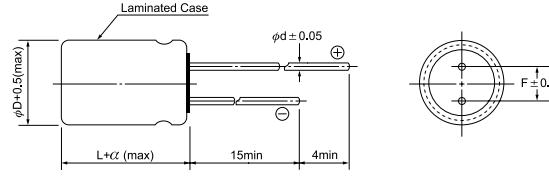
- Height:8mmL
- Super low E.S.R. impedance and high heat resistance.
- Suitable for DC-DC converters, voltage regulators and decoupling applications used for computer motherboards etc.
- Endurance:105°C 2000 hours.

**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 ($R=1k\Omega$) 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													
Failure Rate	Leakage current														
	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 ($\text{m}\Omega$)	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