

H6 SERIES

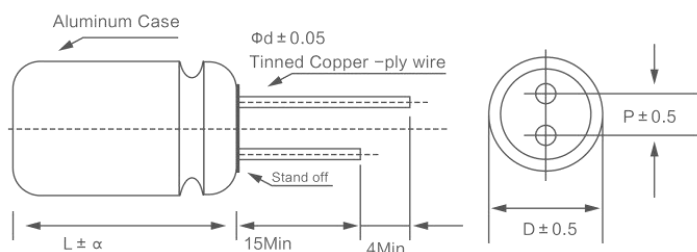
Low ESR, high ripple current, high voltage
Load life of 2000 hours at 105°C



規格表 Specifications

項目Items	特性參數Characteristics		
使用溫度範圍 Category Temperture Range	-55 ~ +105° C		
額定工作電壓範圍 Rated Voltage Range	10~50V		
靜電容量允許偏差 Capacitance tolerance	± 20%(M) (at20,120Hz)		
漏電流 Leakage Current	施加額定工作電壓 2 分鐘後讀數, 小於或等於規格值 (at 20℃), $I\leq 0.03CV$ 或 18 μ A(取大值) Less than or equal to the specified value. After 2 minutes application of rated Voltage at 20℃		
損耗角正切值 tan δ Leakage Current	Rated voltage (V)	10~50	(at 20℃,120Hz)
	tan δ (Max.)	0.16	
溫度特性 Low Temperture Characteristics (Max.Impedance Ratio)	Z(-25℃)/Z(+20℃)	≦ 0.75 to 2.0	(100KHz)
	Z(-55℃)/Z(+20℃)	≦ 0.75 to 1.5	
耐久性 Endurance	105℃施加額定工作電壓 2000 小時,恢復到 20℃後,產品性能應滿足以下要求 The specifications listed below shall be satisfied when the capacitors are restored to 20℃ after application of rated voltage for 2000 hours at 105℃.		
	Appearance	No significant damage	
	Capacitance change	≦ ± 30% of the initial value	
	D.F.(tan δ)	≦200% of the specified value	
	ESR	≦200% of the specified value	
	Leakage current	≦The specified value	
耐濕負荷特性 Damp Heat (Steady State)	在 60℃ 溫度,濕度 90%~95%RH 的環境中,施加額定電壓 1000 小時後,恢復到 20℃後,產品性能應滿足以下要求 The specifications listed below shall be satisfied when the capacitors are restored to 20℃After application of rated voltage for 1000 hours at 60℃,90% ~ 95% RH.		
	Appearance	No significant damage	
	Capacitance change	≦ ± 30% of the initial value	
	D.F.(tan δ)	≦200% of the specified value	
	ESR	≦200% of the specified value	
	Leakage current	≦The specified value	
浪涌電壓特性 (Surge Voltage)	浪涌電壓 = 額定電壓 × 1.25(V) Surge Voltage=Rated voltage × 1.25(V) 在 105℃環境中,按充電 30 秒;放電 5 分 30 秒,連續施加浪涌電壓 1000 次 (Rc=1kΩ),待恢復測試,應滿足以下要求 The capacitors shall be subjected to 1000 cycles each consisting of charge with the surge voltages specified at 105℃ for 30 seconds through a protective resistor (Rc=1kΩ) and discharge for 5 minutes 30 seconds.		
	Appearance	No significant damage	
	Capacitance change	≦ ± 30% of the initial value	
	D.F.(tan δ)	≦200% of the specified value	
	ESR	≦200% of the specified value	
	Leakage current	≦The specified value	

外形圖Dimensions (mm)



ΦD	5	6.3	8	10
P	2.0	2.5	3.5	5.0
Φd	0.5	0.6	0.6	0.6

α	$L+1.5Max$
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紋波電流補正係數 Rated Ripple Current Coefficient

頻率 Frequency(Hz)	120Hz $\leq f < 1$ kHz	1kHz $\leq f < 10$ kHz	10kHz $\leq f < 100$ kHz	100kHz $\leq f < 500$ kHz
係數 Coefficient	0.05	0.30	0.70	1.00

尺寸與個技術參數一覽表 Standard Ratings

Rated voltage (V)	Rated capacitance (μ F)	Case size $\Phi D \times L$ (mm)	ESR(m Ω) at 20°C, 100 KHz	Leakage Current (μ A)	Rated ripple current (mA _{rms} /105°C/100kHz)
10	100	6.3*8	40	30	2000
	220	8*9	25	66	2490
	470	8*12	25	141	2500
	1000	10*12	15	300	3100
16	100	6.3*8	40	48	1500
	270	8*9	25	130	2000
	470	8*12	25	226	2250
	1000	10*12	18	480	2900
25	56	6.3*8	50	42	1400
	100	8*9	30	75	1900
	220	8*12	30	165	2100
	330	10*12	16	248	2900
35	47	6.3*8	60	49	1300
	100	8*9	30	105	1800
	150	8*12	30	158	2100
	220	10*12	20	231	2830
50	15	6.3*8	80	23	1200
	33	8*9	35	50	1670
	100	8*12	35	150	1800
	220	10*12	25	330	2650