

H2 SERIES

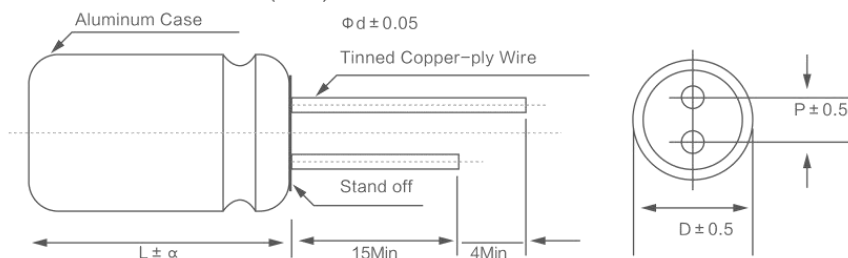
Low ESR, high ripple current, high voltage
Load life of 2000 hours at 105°C



規格表 Specifications

項目 Items	特性參數 Characteristics		
使用溫度範圍 Category Temperture Range	-55 ~ +105℃		
額定工作電壓範圍 Rated Voltage Range	35 ~ 100V		
靜電容量允許偏差 Capacitance tolerance	± 20%(M) (at 20℃,120Hz)		
漏電流 Leakage Current	施加額定工作電壓 2 分鐘後讀數, 小于或等于規格值 (at 20℃) I≤0.1CV 或 299 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 Dissipation Factor	Rated voltage (V) tan δ (Max.)	35~100 0.12	(at 20℃,120Hz)
溫度特性 Low Temperture Characteristics (Max.Impedance Ratio)	Z(-25℃)/Z(+20℃)	≦ 1.25	(100KHz)
	Z(-55℃)/Z(+20℃)	≦ 1.25	
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	≦ ± 20% of the initial value	
	D.F.(tan δ)	≦ 150% of the specified value	
	ESR	≦ 150% 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	≦ ± 20% of the initial value	
	D.F.(tan δ)	≦ 150% of the specified value	
	ESR	≦ 150% 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 × 1.15(V) Surge Voltage=Rated voltage × 1.15(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), 待恢復後測試, 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	≦ ± 20% of the initial value	
	D.F.(tan δ)	≦ 150% of the specified value	
	ESR	≦ 150% 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 < 16) 1.0
	(16 ≤ L < 22) 1.5
	(L ≥ 22) 2.0

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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 (uF)	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)
35	10	5*8	120	299	1100
	22	6.3*8	100	299	1350
	33	5*8	120	299	1100
	39	6.3*8	90	299	1350
	39	8*9	60	299	1800
	47	5*7	80	299	1350
	47	6.3*8	60	299	1800
	56	6.3*8	80	299	1350
	56	8*9	60	299	1800
	68	6.3*8	70	299	1500
	68	8*9	50	299	2000
	82	6.3*11	60	299	1800
	82	8*9	40	299	2000
	100	5*11	45	350	1800
	100	6.3*8	40	350	2000
	150	6.3*12	35	525	2500
	220	8*9	35	770	2350
	220	8*12	35	770	2500
	220	10*12.5	30	770	2750
	330	10*12.5	30	1155	2900
	470	10*13	30	1645	2900
50	10	5*8	120	299	550
	15	6.3*8	100	299	800
	22	6.3*8	100	299	850
	33	8*9	50	299	1300
	33	8*12	40	299	1500
	39	8*9	50	299	1300
	39	8*12	40	299	1500
	47	8*12	40	299	1500
	56	8*12	40	299	1500
	82	10*12.5	35	410	2100
	100	10*12.5	35	500	2100
	220	10*12.5	35	1100	2500

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Rated voltage (V)	Rated capacitance (μ F)	Case size Φ D $\times$ L(mm)	ESR(m Ω) at 20°C, 100 KHz	Leakage Current (μ A)	Rated ripple current (mA _{rms} /105°C/100kHz)
63	10	5*8	120	299	500
	15	6.3*8	100	299	750
	22	6.3*8	100	299	750
	33	8*9	55	299	1100
	39	8*9	55	299	1100
	47	8*12	45	299	1300
	56	8*12	45	353	1300
	82	10*12.5	38	517	1800
	100	10*12.5	38	630	1800
80	10	6.3*8	120	299	550
	15	6.3*8	120	299	550
	22	8*9	80	299	1100
	22	8*12	60	299	1300
	33	10*12.5	45	299	1700
	39	10*12.5	45	312	1700
	47	10*12.5	45	376	1800
	56	10*12.5	45	448	1800
100	10	8*9	90	299	850
	15	8*12	70	299	1190
	22	10*12.5	60	299	1550
	33	10*12.5	60	330	1550