

ALUMINUM ELECTROLYTIC CAPACITORS

GCH

Chip 型 105°C 標準品
Chip 105°C Standard Series

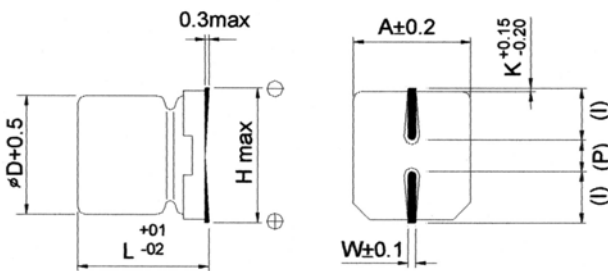
- 表面黏貼型耐高溫品,適一般穿戴及高密度安裝用
- 壽命保證2,000小時/105°C,帶式安裝
- For General use, high temperature, high density mounting.
- Life guaranteed 2,000hrs./105°C.



• Specifications

Item	Performance Characteristics									
Operating Temperature range 使用溫度範圍	-40 + 105°C									
Rated Voltage 額定電壓	6.3V ~ 100V									
Capacitance Range 容量範圍	0.1 ~ 6,800 μF									
Capacitance Tolerance 靜電容量容許差	±20% (120Hz, 20°C)									
Leakage Current 洩漏電流	I ≤ 0.01CV or 3μA, whichever is greater after 2 minutes application of rated voltage.									
Dissipation Factor 散逸係數 (120Hz, 20°C)	Rated voltage (V)	6.3	10	16	25	35	50	63	100	
	Tan δ (max.)	0.30	0.24	0.20	0.16	0.14	0.14	0.12	0.10	
Temperature Characteristics 溫度特性 (120Hz)	Impedance Ratio / Stability at Low Temperature									
	Rated voltage (V)	6.3	10	16	25	35	50	63	100	
	Z (-25°C) / Z (20°C)	6	4	4	3	2	2	2	2	
	Z (-40°C) / Z (20°C)	12	10	8	6	4	4	5	5	
Load Life 高溫負荷特性	After 2,000 hours application of WV at 105°C, capacitor shall meet the characteristics requirements mentioned below.									
	Capacitance change	Within ±20% of initial value								
	Tan δ	200% or less of initial specified value								
	Leakage current	Initial specified value or less								
Shelf Life 擺置壽命	After leaving capacitors under no load at 105°C for 1,000 hours and applying voltage according to JIS C5102 and C5141, they shall meet the specified value as load life characteristics listed above.									

• Dimension



Dφ	L	A	H	I	W	P	K
4	5.4	4.3	5.5	1.8	0.65	1.0	0.35
5	5.4	5.3	6.5	2.2	0.65	1.5	0.35
6.3	5.4	6.6	7.8	2.6	0.65	1.8	0.35
6.3	7.7	6.6	7.8	2.6	0.65	1.8	0.35
8	6.2	8.3	9.5	3.4	0.65	2.2	0.35
8	10.2	8.3	10.0	3.4	0.90	3.1	0.70
10	10.2	10.3	12.0	3.5	0.90	4.6	0.70
12.5	13.5	13	13	4.9	0.90	4.5	0.70
12.5	16	13	13	4.9	0.90	4.5	0.70
16	16.5	17	17	6	1.30	6.8	0.7
16	21.5	17	17	6	1.30	6.8	0.7
18	16.5	19	19	7	1.30	6.8	0.7
18	21.5	19	19	7	1.30	6.8	0.7

• Frequency coefficient of allowable ripple current

Cap(μF) \ Frequency	50 Hz	120 Hz	500 Hz	1KHz	10 KHz
0.1~ 1	0.50	1	1.20	1.30	1.50
2.2~ 4.7	0.65	1	1.20	1.30	1.50
10 ~ 47	0.80	1	1.20	1.30	1.50
100 ~ 1,000	0.80	1	1.10	1.15	1.20
2,200 ~ 6,800	0.80	1	1.05	1.10	1.15

• Allowable ripple & Ambient temperature

Ambient Temp. (°C)	105	85	65 ≥
Compensating Coefficient	1.0	1.7	2.1

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● Size & ripple current

Unit: D x L (mm)

WV(SV) Cap(μF)	6.3		10		16		25		35		50		63		100	
0.1											4 x 5.4	1				
0.22											4 x 5.4	2				
0.33											4 x 5.4	3				
0.47											4 x 5.4	4				
1											4 x 5.4	8				
2.2											4 x 5.4	11				
3.3											4 x 5.4	13				
4.7									4 x 5.4	14	5 x 5.4	18			8 x 10.2	55
10					4 x 5.4	20	4 x 5.4	22	4 x 5.4	23	6 x 5.4	28	8 x 6.2	25	8 x 10.2	65
							5 x 5.4	24	5 x 5.4	24						
22	4 x 5.4	23	4 x 5.4	25	4 x 5.4	28	5 x 5.4	35	5 x 5.4	35	6 x 7.7	67	8 x 10.2	55	10 x 10.2	90
					5 x 5.4	31	6 x 5.4	55	6 x 5.4	46	8 x 6.2	67				
33	4 x 5.4	29	4 x 5.4	29	5 x 5.4	39	5 x 5.4	42	6 x 5.4	68	6 x 7.7	85	8 x 10.2	115	10 x 10.2	135
			5 x 5.4	34			6 x 5.4	48	8 x 6.4	76	8 x 10.2	135				
47	4 x 5.4	36	5 x 5.4	43	5 x 5.4	39	6 x 5.4	70			6 x 7.7	63	8 x 10.2	120	12.5 x 13	160
	5 x 5.4	47			6 x 5.4	56	8 x 6.2	79	8 x 10.2	98	8 x 10.2	155				
100	5 x 5.4	47	6 x 5.4	71	6 x 5.4	70	6 x 7.7	91	6 x 7.7	84	8 x 10.2	200	10 x 10.2	210	16 x 16.5	285
	6 x 5.4	57	8 x 6.2	90	8 x 6.2	111	8 x 10.2	180	8 x 10.2	180	10 x 10.2	315	12.5 x 16	225		
220	6 x 5.4	74	6 x 7.7	105	6 x 7.7	105	8 x 10.2	190	8 x 10.2	170	10 x 10.2	150	16 x 16.5	385	16 x 21.5	440
			8 x 10.2	160	8 x 10.2	185	10 x 10.2	355	10 x 10.2	360	12.5 x 16	380			18 x 16.5	440
330	6 x 7.7	105	8 x 10.2	195	8 x 10.2	195	8 x 10.2	180	10 x 10.2	250	16 x 16.5	470	16 x 21.5	490		
	8 x 10.2	230			10 x 10.2	440	10 x 10.2	450	12.5 x 16	460			18 x 16.5	490		
470	8 x 10.2	210	8 x 10.2	210	8 x 10.2	230	10 x 10.2	360	16 x 16.5	490	16 x 21.5	550	18 x 21.5	590		
			10 x 10.2	420	10 x 10.2	460	12.5 x 16	475			18 x 16.5	550				
1000	8 x 10.2	300	10 x 10.2	480	16 x 16.5	630	16 x 21.5	700	16 x 21.5	750	18 x 21.5	820				
	10 x 10.2	480	12.5 x 16	500			18 x 16.5	700	18 x 16.5	750						
1500	10 x 10.2	480	12.5 x 13	560	12.5 x 13	560										
2200	12.5 x 16	750	16 x 16.5	810	16 x 21.5	930	18 x 21.5	1050								
					18 x 16.5	930										
3300	16 x 21.5	930	16 x 21.5	1000	18 x 21.5	1150	18 x 21.5	1700								
	18 x 16.5	930	18 x 16.5	1000												
4700	18 x 21.5	1200	18 x 21.5	1200												
6800	18 x 21.5	1350														
															Case Size	ripple

Ripple (mA) at 105°C 120Hz