

ALUMINUM ELECTROLYTIC CAPACITORS

GCS Chip 85°C 標準品

Chip 85°C Standard Series

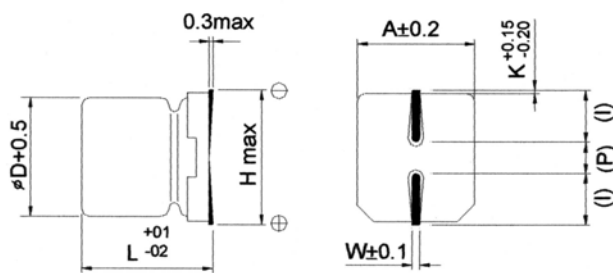
- 表面黏貼型品, 適一般穿裝及高密度實裝用
- 壽命保證 2,000 小時/85°C, 帶式裝
- For high density mounting, tape reel.
- Life guaranteed 2,000hrs./85°C.



• Specifications

Item	Performance Characteristics										
Operating Temperature range 使用溫度範圍	-40 + 85°C										
Rated Voltage 額定電壓	4V ~ 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)	4	6.3	10	16	25	35	50	63	100	
	Tan δ (max.)	3φ	0.40	0.30	-	0.20	0.16	0.14	0.14	-	-
		4φ ~ 6.3φ	0.40	0.26	0.22	0.18	0.16	0.13	0.12	-	-
	8φ ~ 18φ	-	0.35	0.26	0.20	0.16	0.14	0.12	0.12	0.10	
Temperature Characteristics 溫度特性 (120Hz)	Impedance Ratio / Stability at Low Temperature										
	Rated voltage (V)	4	6.3	10	16	25	35	50	63	100	
	Z (-25°C) / Z (20°C)	7	4	3	2	2	2	2	3	3	
	Z (-40°C) / Z (20°C)	15	8	6	4	4	3	3	4	4	
Load Life 高溫負荷特性	After 2,000 hours application of WV at 85°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 85°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
3	5.4	3.3	3.3	1.5	0.55	0.8	0.35
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)	85	70	50 ≥
Compensating Coefficient	1.0	1.6	2.0

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• Size & ripple current

Unit: DxL(mm)

WV(SV) Cap(μF)	4		6.3		10		16		25		35		50		63		100	
0.1													3 x 5.4	1				
													4 x 5.4	1				
0.22													3 x 5.4	2				
													4 x 5.4	2				
0.33													3 x 5.4	3				
													4 x 5.4	3				
0.47													3 x 5.4	4				
													4 x 5.4	4				
1													3 x 5.4	8				
													4 x 5.4	8.4				
2.2												3 x 5.4	8.4	3 x 5.4	10			
														4 x 5.4	14			
3.3												3 x 5.4	10	4 x 5.4	17			8 x 6.2 50
4.7							3 x 5.4	12	3 x 5.4	12	4 x 5.4	18	4 x 5.4	18				8 x 10.2 80
									4 x 5.4	18			5 x 5.4	22				
10							3 x 5.4	18	4 x 5.4	25	4 x 5.4	27	5 x 5.4	30				8 x 10.2 90
							4 x 5.4	25	5 x 5.4	28	5 x 5.4	30	6 x 5.4	35				
22	3 x 5.4	19	3 x 5.4	21	4 x 5.4	30	4 x 5.4	30	5 x 5.4	38	5 x 5.4	39	6 x 5.4	48	8 x 10.2	75	10 x 10.2	130
			4 x 5.4	29			5 x 5.4	39	6 x 5.4	45	6 x 5.4	48	8 x 6.2	80				
33	4 x 5.4	28	4 x 5.4	30	4 x 5.4	32	5 x 5.4	43	5 x 5.4	46	6 x 5.4	58	6 x 7.7	95	8 x 10.2	160	10 x 10.2	170
					5 x 5.4	43			6 x 5.4	54			8 x 6.2	110				
47	4 x 5.4	34	4 x 5.4	36	5 x 5.4	47	5 x 5.4	50	6 x 5.4	60	6 x 5.4	70	6 x 7.7	105	8 x 10.2	170	12.5 x 13	250
			5 x 5.4	46			6 x 5.4	60			8 x 6.2	115	8 x 10.2	240				
100	5 x 5.4	61	5 x 5.4	61	5 x 5.4	64	6 x 5.4	86	6 x 7.7	145	6 x 7.7	160	8 x 10.2	320	10 x 10.2	60	12.5 x 16	440
			6 x 5.4	71	6 x 5.4	71	8 x 6.4	135	8 x 6.4	160	8 x 10.2	280	10 x 10.2	500				
220	6 x 5.4	96	6 x 5.4	100	6 x 7.7	175	6 x 7.7	165	8 x 10.2	300	8 x 10.2	320	10 x 10.2	380	12.5 x 16	580	16 x 21.5	665
					8 x 6.4	190	8 x 10.2	290	10 x 10.2	560	10 x 10.2	570	12.5 x 13	580			18 x 16.5	665
330	6 x 5.4	120	6 x 7.7	190	8 x 10.2	330	8 x 10.2	330	8 x 10.2	370	10 x 10.2	700	12.5 x 13	600	18 x 16.5	680	18 x 21.5	825
			8 x 6.2	210			10 x 10.2	670	10 x 10.2	680								
470	6 x 7.7	200	8 x 10.2	380	8 x 10.2	380	8 x 10.2	385	10 x 10.2	710	12.5 x 13	700	16 x 16.5	740	16 x 21.5	850		
					10 x 10.2	680	10 x 10.2	690							18 x 16.5	850		
1000			8 x 10.2	500	10 x 10.2	700	12.5 x 13	720	12.5 x 16	820	16 x 16.5	1000	18 x 21.5	1150				
			10 x 10.2	700														
1500			10 x 10.2	750														
2200			12.5 x 16	890	12.5 x 16	960	16 x 16.5	1150	16 x 21.5	1350	18 x 21.5	1550						
									18 x 16.5	1350								
3300			16 x 16.5	1200	16 x 16.5	1300	16 x 21.5	1450	18 x 21.5	1700								
							18 x 16.5	1450										
4700			16 x 16.5	1400	16 x 21.5	1500	18 x 21.5	1750										
					18 x 16.5	1500												
6800			16 x 21.5	1650	18 x 21.5	1850												
			18 x 16.5	1650														Case Size ripple

Ripple (mA) at 85°C 120Hz