

ALUMINUM ELECTROLYTIC CAPACITORS

GHA 臥式 105°C 標準品
Axial Leads, 105°C Standard Series

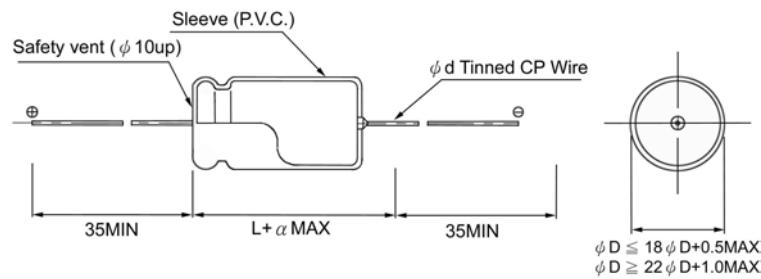
- 般尺寸標準型品，適用於各式小型化電子產品
- 產品壽命保證2,000小時/105°C
- For general use and suitable for consumer electronics products.
- Life guaranteed 2,000hrs./105°C.



• Specifications

Item	Performance Characteristics														
Operating Temperature range 使 用 溫 度範圍	-40 + 105°C					-25 + 105°C									
Rated Voltage 額定電壓	6.3V ~ 100V					160V ~ 450V									
Capacitance Range 容量範圍	0.47 ~ 22,000 μF														
Capacitance Tolerance 電容容許誤差	±20% (120Hz, 20°C)														
Leakage Current 漏電電流	I ≤ 0.02CV or 4 μA, whichever is greater after 2 minutes application of rated voltage.					I ≤ 0.03CV + 10 μA, whichever is greater after 2 minutes application of rated voltage.									
Dissipation Factor 散熱係數 (120Hz, 20°C)	Rated voltage (V)	6.3	10	16	25	35	50	63	100	160~250					
	Tan δ (max.)	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.10	0.25					
	For capacitance of more than 1,000μF, add 0.02 for every increase of 1,000μF.														
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	160~250	350~400					
	Z (-25°C) / Z (20°C)	5	4	3	2	2	2	2	4	4					
	Z (-40°C) / Z (20°C)	12	10	8	6	5	4	4	15	10					
Load Life 高溫貯存特性	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 摱置壽命	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



øD	5	6	8	10	13	16	18	22	25
ød	0.6				0.8		0.8 / 1.0		
α	6.3 ~ 100V	1.5			2.0		2.0		
	160V ~ 450V	1.5			2.0		2.0		

• Frequency coefficient of allowable ripple current

WV	Cap(μF) \ Frequency	50 Hz	120 Hz	300 Hz	1 KHz	10 KHz~
6.3~100	~ 47	0.75	1	1.35	1.57	2.00
	100 ~ 470	0.80	1	1.23	1.34	1.50
	1000 ~ 22000	0.85	1	1.10	1.13	1.15
160~450	1 ~ 220	0.80	1	1.25	1.40	1.60

ALUMINUM ELECTROLYTIC CAPACITORS

• Size & ripple current

Unit: DxL(mm)

WV(SV) Cap(μF)	6.3 (8)	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)	63 (75)	100 (125)
0.47						5 x 13	5	
1						5 x 13	10	
2.2						5 x 13	18	
3.3						5 x 13	22	6.3 x 13
4.7						5 x 13	26	6.3 x 13
10				5 x 13	30	5 x 13	33	6.3 x 13
22			5 x 13	41	5 x 13	48	6.3 x 13	57
33			5 x 13	54	6.3 x 13	64	6.3 x 16	76
47		5 x 13	57	6.3 x 13	71	6.3 x 16	85	6.3 x 16
100	6.3 x 13	89	6.3 x 16	105	6.3 x 16	115	6.3 x 16	120
220	6.3 x 16	145	6.3 x 16	155	8 x 16	185	8 x 16	200
330	8 x 16	200	8 x 16	220	8 x 16	230	8 x 20	270
470	8 x 16	240	8 x 16	250	8 x 20	310	10 x 21	370
1000	10 x 21	430	10 x 21	460	10 x 26	550	13 x 26	640
2200	13 x 26	720	13 x 26	780	13 x 31	910	16 x 31	1040
3300	13 x 26	860	13 x 31	980	16 x 31	1140	16 x 31	1200
4700	13 x 31	1060	16 x 31	1220	16 x 31	1300	18 x 41	1540
6800	16 x 31	1300	16 x 31	1370	16 x 41	1620	22 x 41	1810
10000	16 x 41	1620	18 x 41	1690	22 x 41	1900	22 x 51	1980
15000	18 x 41	1740	22 x 41	1950	22 x 51	2050		
22000	22 x 41	2000	22 x 51	2080	25 x 51	2650		
								Case Size ripple

WV(SV) Cap(μF)	160 (200)	200 (250)	250 (300)	350 (400)	400 (450)	450 (500)
1		6.3 x 13	10	6.3 x 16	11	6.3 x 16
2.2		6.3 x 16	17	8 x 16	20	8 x 16
3.3		8 x 16	24	8 x 16	24	8 x 20
4.7	8 x 16	28	8 x 16	28	8 x 20	32
10	8 x 20	43	10 x 21	50	10 x 21	50
22	10 x 26	85	13 x 26	100	13 x 26	100
33	13 x 26	120	13 x 26	120	13 x 31	135
47	13 x 31	155	13 x 31	155	16 x 31	175
100	16 x 31	270	16 x 41	300	16 x 41	300
220	22 x 41	510	22 x 41	510		
						Case Size ripple

Ripple (mA) at 105°C120 Hz