

ALUMINUM ELECTROLYTIC CAPACITORS

HAG series

HIGH TEMPERATURE 125°C

高溫 125°C

FEATURES 特性

- Load Life: 125°C 4000~5000 hours
壽命: 125°C 4000~5000 小時
- High Ripple Current
高紋波
- For Electronic Ballast, Power Supply
針對電子安定器, 電源供應器

SPECIFICATIONS

Item 項目	Performance Characteristics 特性							
Operating Temperature Range 工作溫度範圍	-40℃ ~ +125℃							
Rated Voltage Range 額定電壓範圍	160V~450W.V							
Capacitance Range 靜電容量範圍	6.8~220 μ F							
Capacitance Tolerance 靜電容量誤差	$\pm$ 20% (20℃,120Hz)							
Leakage Current 洩漏電流	Nominal Capacitance $\leq$ 10 μ F I=0.02CV +25uA(After 2 minutes) 額定容量 $\leq$ 10 μ F I=0.02CV +25uA(2 分鐘後) Nominal Capacitance $>$ 10 μ F I=0.02CV(After 2 minutes) 額定容量 $>$ 10 μ F I=0.02CV(2 分鐘後)) I=Leakage Current(μ A) , C=Nominal Capacitance(μ F) , V=Rated Voltage(V) I=洩漏電流 (μ A) , C=額定容量(μ F) , V=額定電壓(V)							
Dissipation Factor (tan δ) 散逸因素 (損失角正切值)	Rated voltage (V) 額定電壓(V)							MAX (20℃,120Hz)
	160	200	250	350	400	420~450		
	Tan δ 損失角正切值							
	0.15	0.15	0.15	0.20	0.20	0.20		
Low Temperature Stability Impedance Ratio(MAX) 低溫特性阻抗比率	Rated voltage (V) 額定電壓(V))							MAX (120Hz)
	160	200	250	350	400	420~450		
	Z(-25℃)/Z(+20℃)	3	3	3	8	8	8	
	Z(-40℃)/Z(+20℃)	8	8	8	17	17	17	

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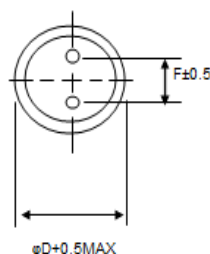
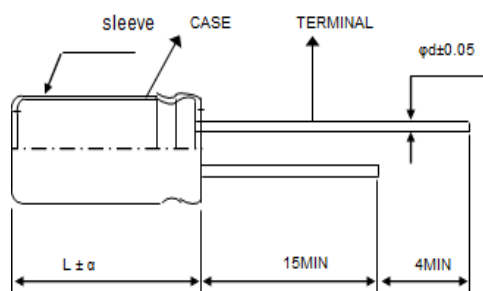
Load Life 負荷壽命	After life test at conditions stated in the table below, the capacitors shall meet the following requirement. 依據以下壽命要求印加額定紋波電流後，電容需符合以下要求。			
	Leakage Current 洩漏電流	Not more than the specified value. 不超出規格值.	Case Dia	Life Time(hrs)
	Capacitance Change 容量變化率	within ±30% of the initial value 初始值±30%以內	$\varphi D \leq 10$	4000
	Dissipation Factor 散逸因素	Not more than 300% of the specified value 不超出規格值的 3 倍	$\varphi D \geq 12$	5000
Shelf Life 放置壽命	After leaving capacitors under no load at 125°C for 500 hours , the capacitors shall meet the following requirements 電容放置在 125°C 無印加電壓的情況下儲存 500 小時後，電容需符合以下要求。			
	Leakage Current 洩漏電流	Not more than the specified value. 不超出規格值.		
	Capacitance Change 容量變化率	within ±30% of the initial value 初始值±30%以內		
	Dissipation Factor 散逸因素	Not more than 300% of the specified value 不超出規格值的 3 倍		
Standard 參照標準	According to JIS C-5101 依據 JIS C-5101			

Frequency coefficient

頻率系數

Frequency(Hz)	120	1k	10k	100k $\leq$
Coefficient	0.70	0.80	0.90	1.00

DIMENSIONS 尺寸(mm)



φD	10	12/12.5/13	16	18	20
φd	0.6		0.8		0.8
F	5.0		7.5		10
α	$L \leq 19: \alpha = 1.5 \quad L \geq 20: \alpha = 2.0$				
$\varphi D \geq 20 + 1.0 \text{MAX}$					

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STANDARD SIZES AND RIPPLE CURRENT

尺寸及紋波標準

SIZE φ DxL(mm) Ripple Current(mA 125°C, 100KHz) r.m.s

W.V Cap(μF)		160(2C)		200(2D)		250(2E)		350(2V)		400(2G)		420(2H)		450(2W)	
		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
6.8	6R8							12.5x20	200	8x14 12.5x30	120 200				
10	100	10x16	225	10x20	230	12.5x20	255	12.5x20	255	12.5x30	255				
15	150									12.5x17	225				
22	220	10x20	465	12.5x20	490	12.5x20	550	16x25	320	16x31.5	390				
33	330	12.5x20	505	16x25	550	12.5x25	590	16x20	390	18x31.5	585				
47	470	12.5x25	575	16x31.5	610	16x25	665	16x35.5	610	18x40	770				
56	560					13x20	630								
68	680	16x25	695	16x31.5	695	18x31.5	840	18x35.5	785	14.5x31.5 16x30 16x35.5	650 800 880				
82	820									18x25	950				
100	101	16x31.5	1030	18x31.5	1030	18x31.5	1105			18x31.5 18x35.5	1200 1280	18x35	1250	18x35.5	1350
120	121									16x45 18x31.5	1400 1250	18x31.5	1250	16x45 18x40	1400 1420
150	151	18x31.5	1250	18x35.5	1250	18x40	1360								
180	181									20x45	1480			20x45	1480
220	221	18x35.5	1290												