

ALUMINUM ELECTROLYTIC CAPACITORS

HAD series

HIGH TEMPERATURE 125°C

高溫 125°C

FEATURES 特性

- Load Life: 125°C 2000hours
壽命: 125°C 2000 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	4.7~220 μ F								
Capacitance Tolerance 靜電容量誤差	$\pm$ 20% (20℃,120Hz)								
Leakage Current 洩漏電流	Nominal Capacitance $\leq 10 \mu$ F I=0.02CV +25uA(After 2 minutes) 額定容量 $\leq 10 \mu$ F I=0.02CV +25uA(2 分鐘後) Nominal Capacitance $> 10 \mu$ F I=0.02CV(After 2 minutes) 額定容量 $> 10 \mu$ 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)	160	200	250	350	400	420	450	MAX (20℃,120Hz)
	Tan δ 損失角正切值	0.15	0.15	0.15	0.20	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)	160	200	250	350	400	420~450	MAX	(120Hz)
	Z(-25℃)/Z(+20℃)	3	3	3	8	8	8		
	Z(-40℃)/Z(+20℃)	8	8	8	17	17	17		

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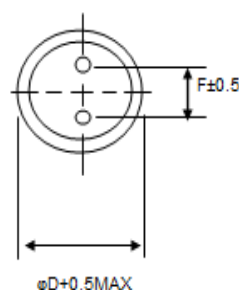
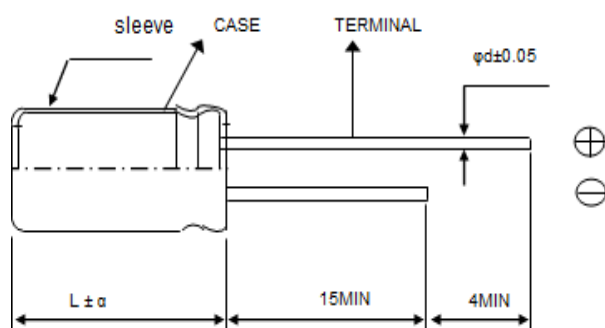
Load Life 負荷壽命	After 2000 hours' application of rated voltage at 125°C, capacitors meet the characteristics requirement listed as following. 在 125°C 下印加額定電壓 2000 小時後, 電容特性需滿足以下要求.	
	Leakage Current 洩漏電流	Not more than the specified value. 不超出規格值.
	Capacitance Change 容量變化率	within $\pm 30\%$ of the initial value 初始值 $\pm 30\%$ 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
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 $\pm 30\%$ of the initial value 初始值 $\pm 30\%$ 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	6.3	8	10	12/12.5/13	16	18
ϕd	0.5	0.6	0.6	0.6	0.8	0.8
F	2.5	3.5	5.0	5.0	7.5	7.5
α	$L \leq 19: \alpha = 1.5, \quad L \geq 20: \alpha = 2.0$					

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HAD series

STANDARD SIZES AND RIPPLE CURRENT

尺寸及紋波標準

SIZE φ DxL(mm) Ripple Current(mA 105°C 100KHz) r.m.s

W.V	Cap(μ F)	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
4.7	4R7					6.3x12	90			8x11.5	125				
6.8	6R8							10x16	180	8x14	160			10x20	115
										10x16	190				
10	100			10x12.5	200	10x20	225	10x20	225	8x16	190	8x17	220	12.5x20	260
										10x11.5	200				
										10x20	235				
15	150									10x16	250	10x16	300	10x16	300
22	220	10x20	405	10x16	360	12.5x20	485	12.5x20	280	12.5x16	300			16x25	450
33	330	10x20	425	12.5x20	485	12.5x20	515	16x25	405	10x16	400			16x31.5	565
										13x20	450				
										16x25	515				
47	470	12.5x20	520	12.5x25	540	12.5x25	585	16x25	540	16x20	560			18x31.5	710
										18x20	600				
68	680	12.5x25	610	12.5x25	610	16x25	750	16x31.5	685	18x20	630				
82	820											18x20	750	18x25	800
100	101	16x25	900	16x25	900	16x31.5	990			18x25	860	18x30	950		
										18x31.5	900				
120	121									18x31.5	1000	18x31.5	1080	16x45	1250
150	151	16x31.5	1090	16x31.5	1090	18x31.5	1215			18x35.5	1100			18x45	1800
180	181													18x50	2000
220	221	16x35.5	1125	18x31.5	1380									18x50	2100