

ALUMINUM ELECTROLYTIC CAPACITORS

TS series

*Be able to pass the surge test in DC voltage of over 610V

*可符合過 DC 電壓 610V 以上之過電壓要求

FEATURES 特性

- Load Life 105°C 2000hrs.
壽命:105°C 2000 小時
- For Power Supply、TV power supply
應用與電源供應器、電視電源

SPECIFICATIONS

Item 項目	Performance Characteristics 特性					
Operating Temperature Range 工作溫度範圍	-40°C ~ +105°C					
Rated Voltage Range 額定電壓範圍	400W.V ~ 500 W.V.					
Capacitance Range 靜電容量範圍	22~220 μ F					
Capacitance Tolerance 靜電容量誤差	±20% (20°C, 120Hz)					
Leakage Current 洩漏電流	Nominal Capacitance $\leq 10 \mu F$ $I=0.02CV + 25\mu A$ (After 2 minutes) 額定容量 $\leq 10 \mu F$ $I=0.02CV + 25\mu A$ (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 (μA), C =Nominal Capacitance (μF), V =Rated Voltage (V) I =洩漏電流 (μA), C =額定容量 (μF), 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)	400	420	450	500	MAX (20°C, 120Hz)
	Tan δ 損失角正切值	0.25	0.25	0.25	0.25	
Low Temperature Stability Impedance Ratio (MAX) 低溫特性阻抗比率	Rated voltage (V) 額定電壓 (V)	400	420	450	500	MAX (120Hz)
	Z(-25°C)/Z(+20°C)	8	8	8	8	
	Z(-40°C)/Z(+20°C)	17	17	17	17	

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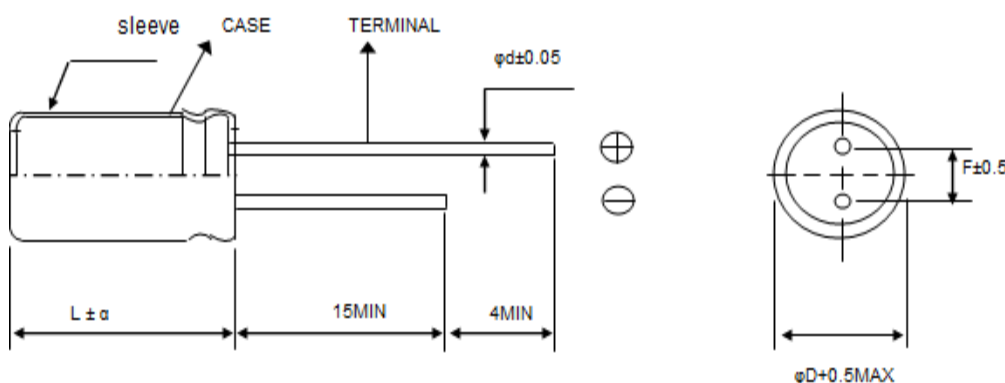
Load Life 負荷壽命	After 2000 hours' application of rated voltage at 105°C, capacitors meet the characteristics requirement listed as following. 在 105°C 下印加額定電壓 2000 小時後, 電容特性需滿足以下要求.	
	Leakage Current 洩漏電流	Not more than the specified value. 不超出規格值.
	Capacitance Change 容量變化率	within ±20% of the initial value 初始值±20%以內
	Dissipation Factor 散逸因素	Not more than 200% of the specified value 不超出規格值的 2 倍
Shelf Life 放置壽命	After leaving capacitors under no load at 105°C for 1000 hours, the capacitors shall meet the following requirements. 電容放置在 105°C 無印加電壓的情況下儲存 1000 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 ±20% of the initial value 初始值±20%以內
	Dissipation Factor 散逸因素	Not more than 200% of the specified value 不超出規格值的 2 倍
Standard 參照標準	According to JIS C-5101 依據 JIS C-5101	

Frequency coefficient

頻率系數

Frequency(Hz)	60(50)	120	1k	10k	≥ 100k
Coefficient	0.80	1.00	1.45	1.65	1.75

DIMENSIONS 尺寸(mm)



φD	8	10	12/12.5/13	16	18
φd	0.6	0.6	0.6	0.8	0.8
F	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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STANDARD SIZES AND RIPPLE CURRENT

尺寸及紋波標準

SIZE \varnothing DxL(mm)Ripple Current(mA 105°C 120Hz) r.m.s

W.V		400(2G)		420(2H)		450(2W)		500(2Z)	
		Size	Ripple Current	SIZE	Ripple Current	Size	Ripple Current	Size	Ripple Current
22	220					12.5x25	179		
33	330	12.5x25	200	10x40 16x20	360 240	10x40 12x25 12.5x30 16x25 18x20	360 200 220 240 250		
39	390			10x40 16x20	390 260	10x40 16x31.5	390 250		
47	470			10x40 12.5x40 16x25	410 550 260	10x45 12.5x40 16x25 18x25	440 450 270 280		
56	560			10x50 12.5x40 16x25	490 480 310	10x55 12.5x35 16x20 16x35.5	500 450 330 350		
68	680			10x60 12.5x40 16x30	500 490 360	10x60 12x45 12.5x35 16x25 18x25	540 350 300 330 350	18x25 18x35.5	400 480
82	820	16x35	360	12.5x45 16x30	630 390	12x50 13x35 16x30 18x25	400 350 420 480		
90	900					13x48	530		
100	101			12.5x55 16x31.5 18x30	730 500 500	12x60 12.5x55 16x30 18x30	720 720 480 480		

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W.V		400(2G)		420(2H)		450(2W)		500(2Z)	
		Size	Ripple Current	Size	Ripple Current	Size	Ripple Current	Size	Ripple Current
110	111					13x50 16x30 18x25	580 480 510		
120	121			18x35.5	650	13x53 16x31.5 18x30	620 500 500		
140	141					18x35.5	730		
150	151			18x40	710	18x35.5 18x45	730 840		
180	181			18x45	720	16x50 18x40 20x46.5	820 850 950		
220	221					18x50	900		