

ALUMINUM ELECTROLYTIC CAPACITORS

LLS series Lead Type For Power

LLS 20&22φ

導針型 適用於電源供應器

FEATURES

特性

- Load Life:105°C 2000 ~3000Hours.
壽命：105°C 2000~3000 小時
- Substitute of Snap-in.
自立型電容的替代品
- 20&22φRadial lead type for Power Supply
電源供應器適用的 20φ&22φ 導針型電容

SPECIFICATIONS

Item 項目	Performance Characteristics 特性																
Operating Temperature Range 工作溫度範圍	-40°C ~ +105°C (200~250V), -25°C ~ +105°C (350~450V)																
Rated Voltage Range 額定電壓範圍	200~450V																
Capacitance Range 靜電容量範圍	150~680 μF																
Capacitance Tolerance 靜電容量誤差	±20% (20°C, 120Hz)																
Leakage Current 洩漏電流	$I \leq 0.02CV$ After 5minutes with rated working voltage applied $I \leq 0.02CV$ (5 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)	<table border="1"> <thead> <tr> <th>Rated voltage (V) 額定電壓</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>420~450</th> <th rowspan="2">MAX (20°C, 120Hz)</th> </tr> </thead> <tbody> <tr> <td>Tan δ 損失角正切值</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.20</td> </tr> </tbody> </table>	Rated voltage (V) 額定電壓	200	250	350	400	420~450	MAX (20°C, 120Hz)	Tan δ 損失角正切值	0.15	0.15	0.15	0.15	0.20			
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Tan δ 損失角正切值	0.15	0.15	0.15	0.15	0.20												
Low Temperature Stability Impedance Ratio(MAX) 低溫特性阻抗比率	<table border="1"> <thead> <tr> <th>Rated voltage (V) 額定電壓</th> <th>200</th> <th>250</th> <th>350-400</th> <th>420~450</th> <th rowspan="3">MAX (120Hz)</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C)/Z(+20°C)</td> <td>3</td> <td>5</td> <td>8</td> <td>17</td> </tr> <tr> <td>Z(-40°C)/Z(+20°C)</td> <td>4</td> <td>8</td> <td>---</td> <td>---</td> </tr> </tbody> </table>	Rated voltage (V) 額定電壓	200	250	350-400	420~450	MAX (120Hz)	Z(-25°C)/Z(+20°C)	3	5	8	17	Z(-40°C)/Z(+20°C)	4	8	---	---
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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	<table border="1"> <thead> <tr> <th>Rated Voltage(V)</th> <th>Life Time(hrs)</th> </tr> </thead> <tbody> <tr> <td>200V~250V</td> <td>3000</td> </tr> <tr> <td>350V~450V</td> <td>2000</td> </tr> </tbody> </table>	Rated Voltage(V)	Life Time(hrs)	200V~250V	3000	350V~450V	2000
	Rated Voltage(V)	Life Time(hrs)							
	200V~250V	3000							
350V~450V	2000								
Capacitance Change 容量變化率	Within $\pm 20\%$ of initial value. 初始值 $\pm 20\%$ 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 500 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 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 $\pm 20\%$ of initial value. 初始值 $\pm 20\%$ 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 標準								

Frequency coefficient

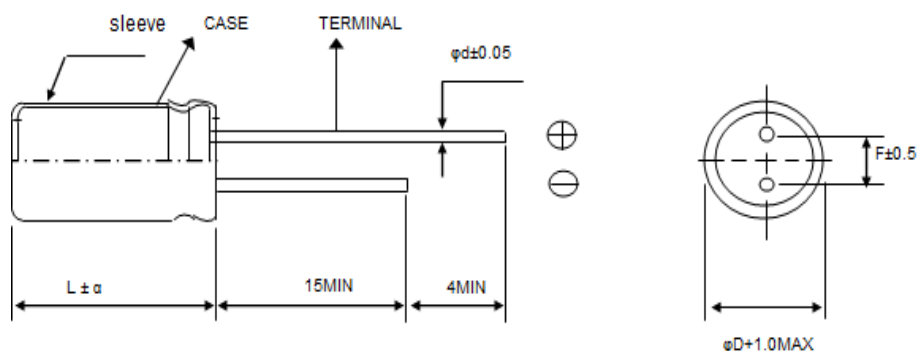
頻率系數

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

ALUMINUM ELECTROLYTIC CAPACITORS

LLS series

DIMENSIONS 尺寸(mm)



φD	20	22
φd	0.8	1.0
F	10	10
α	2	2

STANDARD SIZE , RIPPLE CURRENT,IMPEDANCE

尺寸,紋波電流及阻抗標準

SIZE $\varphi D \times L$ (mm)Ripple Current(mA 105°C,120Hz) r.m.s

W.V	200		250		350		400		420		450	
	SIZE	Ripple Current (mA)	SIZE	Ripple Current (mA)	SIZE	Ripple Current (mA)	SIZE	Ripple Current (mA)	SIZE	Ripple Current (mA)	SIZE	Ripple Current (mA)
150					20x31.5	930	20x31.5 22x30	850 800			20x36.5	700
180							20x35 22x30	850 850	20x40	950		
220			20x31.5	1080	20x41.5	1180	20x40 20x41.5	950 982			20x46.5 20x50	850 1000
270			20x31.5	1180	20x48	1230	20x46.5	1123				
330			20x36.5	1230								
390	20x31.5	1230	20x36.5	1400								
470	20x36.5	1400	20x45	1510								
560	20x41.5 20x35.5 22x35.5	1510 1480 1580	20x48	1660								
680	20x45 20x46.5 22x35	1620 1660 1600										