



# Aluminum Electrolytic Capacitors **SL** Series

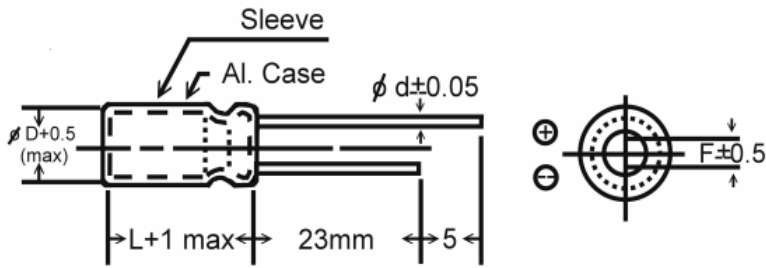
## Features

- 7mm height with low Leakage Current

## Specification

Items	Performance																								
Capacitance Tolerance	$\pm 20\%$ (at 120Hz, 25 °C)																								
Rated Voltage Range	6.3 to 50 VDC																								
Capacitance Range	0.47 to 100 $\mu$ F																								
Operating Temperature Range	-40 to + 105°C																								
Leakage Current (at 25 °C)	I $\leq$ 0.005 CV or 1 ( $\mu$ A), whichever is greater. After 3 minutes application of working voltage. I= Leakage current ( $\mu$ A), C= Rated capacitance ( $\mu$ F), V= Rated voltage (V)																								
Dissipation Factor (Tan $\delta$ at 120Hz, 25 °C)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Rate Voltage</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>Tan <math>\delta</math> (max)</td> <td>0.24</td> <td>0.2</td> <td>0.17</td> <td>0.15</td> <td>0.12</td> <td>0.10</td> </tr> </tbody> </table>	Rate Voltage	6.3	10	16	25	35	50	Tan $\delta$ (max)	0.24	0.2	0.17	0.15	0.12	0.10										
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For capacitance > 1000 $\mu$ F, add 0.02 per 1000 $\mu$ F increase.																									
Low Temperature characteristics (at 120Hz)	Impedance ration max.																								
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Load Life	After 1000 hours application of W.V. at 105°C. the capacitor shall meet the followin limits. Capacitance change : $\leq \pm 25\%$ of initial value Dissipation factor : $\leq 200\%$ of initial specified value Leakage Current : $\leq$ Initial specified value																								
Shelf Life	After storage for 500 hours at 105 °C, with no voltage applied and being stabilixed at + 25°C, Capacitor shall meet the limit specified in load life.																								
Ripple Current & Frequency Multipliers	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Freq.(Hz)</th> <th>60 (50)</th> <th>120</th> <th>1K</th> <th>10K</th> <th>100K</th> </tr> </thead> <tbody> <tr> <td>Cap.(<math>\mu</math>F)</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Under 47</td> <td>0.60</td> <td>0.90</td> <td>1.00</td> <td>1.10</td> <td>1.10</td> </tr> <tr> <td>100 to 470</td> <td>0.70</td> <td>0.90</td> <td>1.00</td> <td>1.00</td> <td>1.00</td> </tr> </tbody> </table>	Freq.(Hz)	60 (50)	120	1K	10K	100K	Cap.( $\mu$ F)						Under 47	0.60	0.90	1.00	1.10	1.10	100 to 470	0.70	0.90	1.00	1.00	1.00
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Standards	Satisfied Characteristic W of JIS C																								

# Aluminum Electrolytic Capacitors SL Series



D	4	5	6.3	8
F	1.5	2.0	2.5	3.5
d	0.45			0.5

Dimension : D x L (mm)

## DIMENSION & PERMISSIBLE RIPPLE CURRENT

Ripple Current : mA/rms at 120Hz,105

VDC uF	6.3V		10V		16V		25V		35V		50V	
	DxL	mA	DxL	mA	DxL	mA	DxL	mA	DxL	mA	DxL	mA
0.1											4x7	0.8
0.22											4x7	2
0.33											4x7	2
0.47											4x7	4
1											4x7	7
2.2											4x7	10
3.3											4x7	15
4.7											4x7	19
10							4x7	20	5x7	30	6.3x7	35
22					5x7	35	5x7	45	6.3x7	45	8x7	48
33			5x7	38	6.3x7	46	6.3x7	50	8x7	58		
47			5x7	48	6.3x7	55	8x7	65				
100	6.3x7	65	8x7	80	8x7	90						