

SL Series 7 mm, Low Leakage Current 85°C



Features

- ◆ Low leakage current, height 7 mm
- ◆ RoHS Compliant

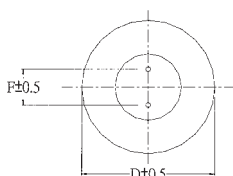
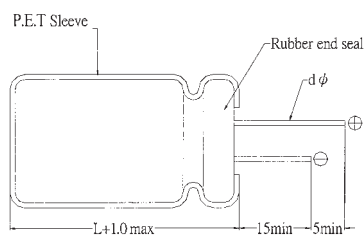
Specifications

Item	Performance Characteristics														
Operating Temperature Range	-40 to +85°C														
Rated Voltage Range	6.3 to 50 VDC														
Capacitance Range	0.1 to 220 μF														
Capacitance Tolerance	±20%(120Hz,+20°C)														
Leakage Current (+20°C,max.)	I ≤ 0.002 CV or 0.4 (μA) After 2 minutes, whichever is greater measured with rated working voltage applied.														
Dissipation Factor (tan δ , at 20°C , 120Hz)	<table border="1"> <tr> <td>Working Voltage(VDC)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>D.F.(%)max.</td> <td>22</td> <td>20</td> <td>16</td> <td>14</td> <td>12</td> <td>10</td> </tr> </table>	Working Voltage(VDC)	6.3	10	16	25	35	50	D.F.(%)max.	22	20	16	14	12	10
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Low Temperature Characteristics (at 120Hz)	Impedance ratio max <table border="1"> <tr> <td>Working Voltage(VDC)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Z-25°C / Z+20°C</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> </tr> </table>	Working Voltage(VDC)	6.3	10	16	25	35	50	Z-25°C / Z+20°C	8	6	4	4	3	3
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Z-25°C / Z+20°C	8	6	4	4	3	3									
Endurance	Test condition Duration time :1000Hrs Ambient temperature :+85°C Applied voltage :Rated DC working voltage After test requirement at +20°C Capacitance change : with ±20% of the initial measured value(4V: ±30%) Dissipation factor : ≤200% of the initial specified value Leakage current : ≤The initial specified value														
Shelf Life	Test condition Duration time :1000Hrs Ambient temperature :+85°C Applied voltage :None After test requirement at +20°C:Same limits as Endurance. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.														

Multiplier for Ripple Current vs. Frequency

CAP(μF)\Frequency(Hz)	50(60)	120	400	1K	10K	50K-100K
CAP ≤ 10	0.8	1	1.30	1.45	1.65	1.70
10 < CAP ≤ 220	0.8	1	1.23	1.36	1.48	1.53

Diagram of Dimensions:(unit:mm)



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

Case Size

WV (Vdc)	Cap (µF)	Size (mm)	Rated Ripple current (mA _{rms} /85°C /120Hz)
6.3	22	4x7	31
6.3	33	5x7	40
6.3	47	5x7	48
6.3	100	6.3x7	70
6.3	220	8x7	110
10	22	5x7	35
10	33	5x7	44
10	47	6.3x7	55
10	100	8x7	90
16	10	4x7	25
16	22	5x7	40
16	33	6.3x7	53
16	47	6.3x7	60
16	100	8x7	95
25	10	5x7	30
25	22	6.3x7	48

WV (Vdc)	Cap (µF)	Size (mm)	Rated Ripple current (mA _{rms} /85°C /120Hz)
25	33	6.3x7	59
25	47	8x7	73
35	4.7	4x7	21
35	10	5x7	33
35	22	6.3x7	52
35	33	8x7	65
50	0.1	4x7	1
50	0.22	4x7	2
50	0.33	4x7	3
50	0.47	4x7	5
50	1	4x7	8
50	2.2	4x7	16
50	3.3	4x7	21
50	4.7	5x7	25
50	10	6.3x7	40
50	22	8x7	58