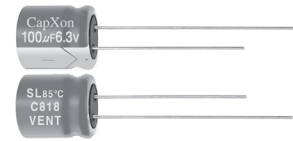


# CapXon SL Series

## SL Series 7 mm, Low Leakage Current 85°C

### Features

- ◆ Low leakage current, height 7 mm
- ◆ For detail specifications, please refer to Engineering Bulletin No. E120
- ◆ RoHS Compliant



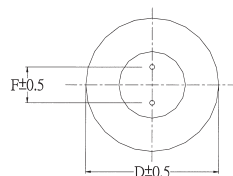
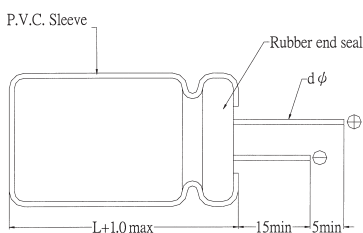
### Specifications

Item	Performance Characteristics														
Operating Temperature Range	-40 to +85°C														
Rated Voltage Range	6.3 to 50 VDC														
Capacitance Range	0.1 to 220 $\mu$ F														
Capacitance Tolerance	$\pm 20\%$ (120Hz, +20°C)														
Leakage Current(+20°C, max)	$I \leq 0.002 CV$ or $0.4 (\mu A)$ After 2 minutes, whichever is greater measured with rated working voltage applied.														
Dissipation Factor ( $\tan \delta$ , 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
	Working Voltage (VDC)	6.3	10	16	25	35	50								
D. F. (%)max	22	20	16	14	12	10									
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-40°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-40°C / Z+20°C	8	6	4	4	3	3
Working Voltage (VDC)	6.3	10	16	25	35	50									
Z-40°C / Z+20°C	8	6	4	4	3	3									
Load Life	Test conditions Duration time :1000 Hrs Ambient temperature :+85°C Applied voltage :Rated DC working voltage After test requirements at +20°C Capacitance change : $\leq \pm 20\%$ of the initial measured value (4V : $\leq \pm 30\%$ ) Dissipation factor : $\leq 200\%$ of the initial specified value Leakage current : $\leq$ The initial specified value														
Shelf Life	Test conditions Duration time :1000 Hrs Ambient temperature :+85°C Applied voltage :None  After test requirements at +20°C : Same limits as Load life. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.														

### Multiplier for Ripple Current vs. Frequency

CAP( $\mu$ F)\Frequency(Hz)	50(60)	120	400	1K	10K	50K-100K
CAP $\leq 10$	0.8	1	1.30	1.45	1.65	1.70
10<CAP $\leq 100$	0.8	1	1.23	1.36	1.48	1.53
100<CAP $\leq 1000$	0.8	1	1.16	1.25	1.25	1.38

### Diagram of Dimensions:(unit:mm)



D $\phi$	4	5	6.3	8
F	1.5 $\pm$ 0.5	2.0 $\pm$ 0.5	2.5 $\pm$ 0.5	3.5 $\pm$ 0.5
d $\phi$	0.45		0.5	

# CapXon SL Series

## Case Size

φ D<sub>xL</sub>(mm)

WV (SV) Cap(μF)	6.3 (8)		10 (13)		16 (20)		25 (32)		35 (44)		50 (63)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1											4x7	0.8
0.22											4x7	2.0
0.33											4x7	3.1
0.47											4x7	4.5
1											4x7	8.0
2.2											4x7	16
3.3											4x7	21
4.7									4x7	21	5x7	25
10					4x7	25	5x7	30	5x7	33	6.3x7	40
22	4x7	31	5x7	35	5x7	40	6.3x7	48	6.3x7	52	8x7	58
33	5x7	40	5x7	44	6.3x7	53	6.3x7	59	8x7	65		
47	5x7	48	6.3x7	55	6.3x7	60	8x7	73				
100	6.3x7	70	8x7	90	8x7	95						
220	8x7	110										

Ripple Current ( mA, rms ) at 85°C 120Hz

Radial