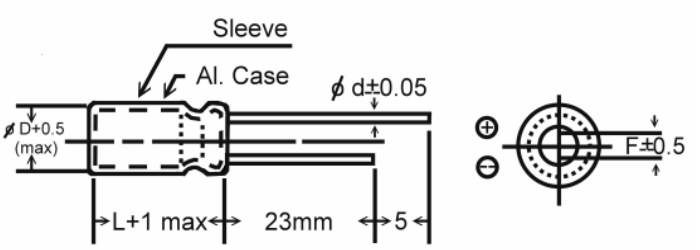
Aluminum Electrolytic Capacitors **XS** Series

Features

- Ultra Low Impedance, High Ripple Current
- Long Life of 2000 Hours at 105℃.

Specification

<table>
<tr><td>Items</td><td colspan="4">Performance</td></tr>
<tr><td>Capacitance Tolerance</td><td colspan="4">±20% (at 120Hz, 25℃)</td></tr>
<tr><td>Rated Voltage Range</td><td colspan="4">6.3 to 16 VDC</td></tr>
<tr><td>Capacitance Range</td><td colspan="4">470 to 3300 uF</td></tr>
<tr><td>Operating Temperature Range</td><td colspan="4">-40 to + 105℃</td></tr>
<tr><td rowspan="2">Leakage Current (at 25℃)</td><td colspan="4">I≦0.01 CV or 3 (uA), whichever is greater.</td></tr>
<tr><td colspan="4">After 2 minutes application of working voltage.
I= Leakage current (uA), C= Rated capacitance (uF), V= Rated voltage (V)</td></tr>
<tr><td>Dissipation Factor
(Tan δ at 120Hz, 25℃)</td><td colspan="4">
<table>
<tr><td>Rate Voltage</td><td>6.3</td><td>10</td><td>16</td></tr>
<tr><td>Tan δ (max)</td><td>0.15</td><td>0.14</td><td>0.12</td></tr>
</table>
For capacitance ＞1000uF, add 0.02 per 1000uF increase.
</td></tr>
<tr><td>Low Temperature
characteristics (at 120Hz)</td><td colspan="4">Impedance ration max.
<table>
<tr><td>Rate Voltage</td><td>6.3</td><td>10</td><td>16</td></tr>
<tr><td>-25℃/25℃</td><td>3</td><td>3</td><td>2</td></tr>
<tr><td>-40℃/25℃</td><td>6</td><td>6</td><td>4</td></tr>
</table>
</td></tr>
<tr><td>Load Life</td><td colspan="4">Application of W.V. at +105℃, the capacitor shall meet the following limits.
Time : 2000 Hours (L≦14 : 1000 hrs)
Capacitance change : ≦±25% of initial value
Dissipation factor : ≦200% of initial specified value
Leakage Current : ≦Initial specified value</td></tr>
<tr><td>Shelf Life</td><td colspan="4">After storage for 500 hours at 105℃, with no voltage applied and being stabilixed at + 25℃, Capacitor shall meet the limit specifed in load life.</td></tr>
<tr><td>Ripple Current &
Frequency Multipliers</td><td colspan="4">
<table>
<tr><td>Freq.(Hz)
Cap.(uF)</td><td>120</td><td>1K</td><td>10K</td><td>100Kup</td></tr>
<tr><td>470 to 1000</td><td>0.40</td><td>0.75</td><td>0.90</td><td>0.90</td></tr>
<tr><td>1200 to 2700</td><td>0.50</td><td>0.80</td><td>0.90</td><td>0.90</td></tr>
</table>
</td></tr>
<tr><td>Ripple Current &
Temperature Multipliers</td><td colspan="4">
<table>
<tr><td>Temperature (℃)</td><td>85</td><td>105</td></tr>
<tr><td>Multiplier</td><td>1.10</td><td>0.90</td></tr>
</table>
</td></tr>
<tr><td>Standards</td><td colspan="4">Satisfied Characteristic W of JIS C</td></tr>
</table>



D	8	10	13
P	3.5	5.0	5.0
d	0.5	0.6	

DIMENSION & PERMISSIBLE RIPPLE CURRENT

VDC / uF	6.3V ψDxL (mm)	Ripple Current (mA/rms,105℃)	Impedance (Ωmax.) 25℃,100KHz	VDC / uF	10V ψDxL (mm)	Ripple Current (mA/rms,105℃)	Impedance (Ωmax.) 25℃,100KHz
1000	8x12	900	0.045	**1000**	8x14	1200	0.040
1500	8x20	1400	0.03	**1500**	10x20	2400	0.025
	10x16	1800	0.03	**2200**	10x25	2600	0.020
	10x20	2200	0.02	**2700**	10x25	2600	0.020
2200	10x20	2200	0.025				
2700	10x25	2500	0.02				
3300	10x25	2800	0.02				

VDC / uF	16V ψDxL (mm)	Ripple Current (mA/rms,105℃)	Impedance (Ωmax.) 25℃,100KHz
1000	10x20	2400	0.020
1200	10x25	2600	0.020
2200	10x25	2600	0.020
	13x26	3000	0.020
2700	10x25	2600	0.020