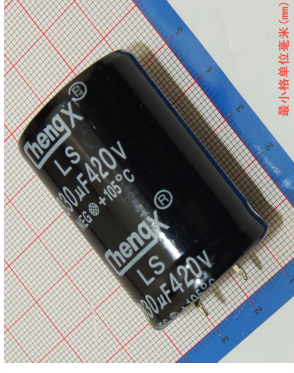


LS Series

Lug/Snap-in Terminal Type (插入/自立型), Wide Temperature (宽温度)

FEATURES

1. Highly reliable capacitors that withstand under high ripple current.
2. Two or three dimensions with same ratings.
3. Aluminum case designed explosion-proof vent.
4. Best for switching power supplies.



SPECIFICATIONS

Item	Performance Characteristics																											
Operating Temperature Range	-40 to +105°C																											
Rated Working Voltage Range	10 to 100V																											
Nominal Capacitance Range	47 ~ 56000µF																											
Capacitance Tolerance	±20% (120Hz, +20°C)																											
Leakage Current	$I \leq 3 \sqrt{CV}$ (µA) after 5 minutes application of rated working voltage at +20°C																											
tan δ (120Hz, +20°C)	<table border="1"> <tr> <td>Working Voltage (V)</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>80</td> <td>100</td> </tr> <tr> <td>tan δ (max.)</td> <td>0.55</td> <td>0.50</td> <td>0.45</td> <td>0.35</td> <td>0.30</td> <td>0.30</td> <td>0.25</td> <td>0.20</td> </tr> </table>	Working Voltage (V)	10	16	25	35	50	63	80	100	tan δ (max.)	0.55	0.50	0.45	0.35	0.30	0.30	0.25	0.20									
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	For capacitance value > 33000µF, add following calculated value: $\frac{(\text{rated capacitance}) - 33000\mu\text{F}}{10000\mu\text{F}} \times 0.1$																											
Low Temperature Characteristics	Impedance ratio max. at 120Hz																											
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Working Voltage (V)	10	16	25	35	50	63	80	100																				
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	<table border="1"> <tr> <td>Working Voltage (V)</td> <td>160 ~ 180</td> <td>200 ~ 220</td> <td>250</td> <td>315 ~ 385</td> <td>400</td> <td>450</td> <td>500</td> </tr> <tr> <td>Z-25°C / Z+20°C</td> <td>8</td> <td>8</td> <td>8</td> <td>8</td> <td>8</td> <td>8</td> <td>8</td> </tr> <tr> <td>Z-40°C / Z+20°C</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </table>	Working Voltage (V)	160 ~ 180	200 ~ 220	250	315 ~ 385	400	450	500	Z-25°C / Z+20°C	8	8	8	8	8	8	8	Z-40°C / Z+20°C	-	-	-	-	-	-	-			
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Z-25°C / Z+20°C	8	8	8	8	8	8	8																					
Z-40°C / Z+20°C	-	-	-	-	-	-	-																					
High Temperature Loading	Testing time : 2000 hours Testing temp. : +105°C Testing condition : Rated DC working voltage with the max. ripple current Post test requirements at +20°C Leakage current : ≤ Initial specified value Cap. change : within ±20% of initial measured value tan δ : ≤ 200% of initial specified value																											
Shelf Life	At 105°C no voltage applied after 1000 hours and then being stabilized at 20°C the capacitors shall meet the following limits Leakage current : ≤ Initial specified value Cap. change : within ±15% of initial measured value tan δ : ≤ 150% of initial specified value																											
Others	JIS C - 5101 (IEC 60384)																											

RIPPLE CURRENT MULTIPLIER

Frequency Coefficient

Frequency multiplying factor:

If capacitors are used to filter circuits at a frequency other than 120Hz, the maximum ripple current must be multiplied by the figure shown in the table below.

Freq.(Hz)	60	120	1k	10 ~ 50k
10 ~ 100V	0.90	1.00	1.15	1.25
160 ~ 250V	0.80	1.00	1.25	1.47
315 ~ 500V	0.80	1.00	1.30	1.47