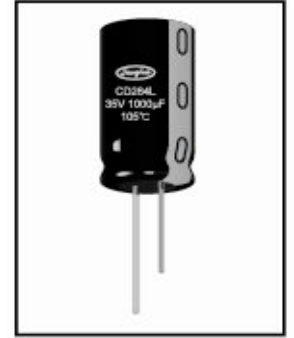
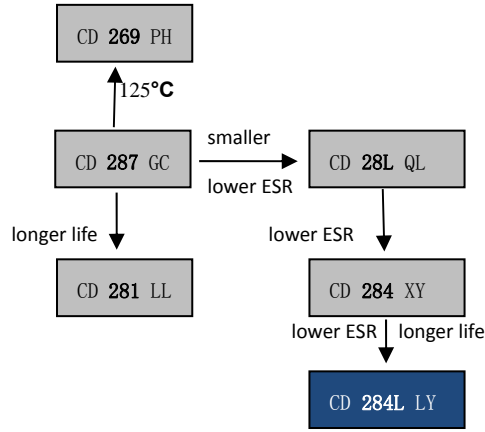


6000~10000h at 105°C

- Higher ripple current capability and smaller sizes than CD284 series
- Lower Impedance at high frequency
- Load life of 6000 to 10000hrs

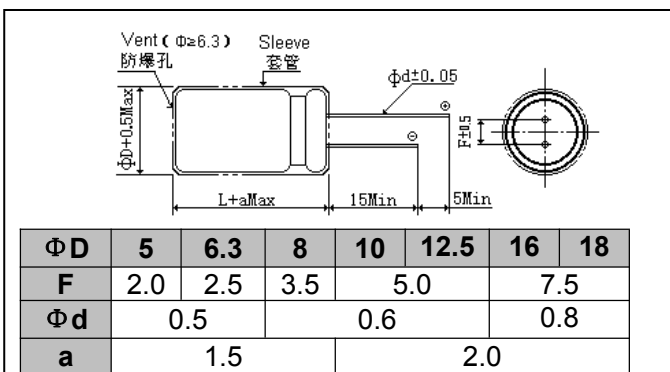


Item	Characteristics																														
Operating Temperature Range(°C)	-40 ~ +105																														
Rated Voltage Range (V)	6.3 ~ 100																														
Capacitance Range(µF)	8.2~8200																														
Capacitance Tolerance (20°C,120Hz)	±20%																														
Leakage Current (µA)	After 2 minutes at 20°C application of rated voltage, leakage current is not more than 0.01CV or 3, whichever is greater. C:Nominal Capacitance(µF) V:Rated Voltage(V)																														
Dissipation Factor (20°C, 120Hz)	<table border="1"> <tr> <td>Rated Voltage (V)</td> <td>6.3</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>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.08</td> <td>0.08</td> </tr> </table> <p>For Capacitances&gt;1000µF add 0.02 to every 1000µF</p>	Rated Voltage (V)	6.3	10	16	25	35	50	63	80	100	Tan δ(max)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.08										
Rated Voltage (V)	6.3	10	16	25	35	50	63	80	100																						
Tan δ(max)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.08																						
Stability at Low Temperature (Impedance Ratio at 120Hz)	<table border="1"> <tr> <td>Rated Voltage(V)</td> <td>6.3</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>Z -25°C/ Z +20°C</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z -40°C/ Z +20°C</td> <td>12</td> <td>10</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>	Rated Voltage(V)	6.3	10	16	25	35	50	63	80	100	Z -25°C/ Z +20°C	4	3	2	2	2	2	2	2	2	Z -40°C/ Z +20°C	12	10	8	6	4	3	3	3	3
Rated Voltage(V)	6.3	10	16	25	35	50	63	80	100																						
Z -25°C/ Z +20°C	4	3	2	2	2	2	2	2	2																						
Z -40°C/ Z +20°C	12	10	8	6	4	3	3	3	3																						

	Useful Life		Load Life	Endurance Life	Shelf Life
<b>Lifetime</b>	$\phi \leq 6.3$ : 8000h $\phi = 8$ : 10000h $\phi \geq 10$ :12000h	$\phi > 8$ :110000h	$\phi \leq 6.3$ : 6000h $\phi = 8$ : 8000h $\phi \geq 10$ :10000h	$\phi \leq 6.3$ : 7000h $\phi = 8$ : 10000h $\phi \geq 10$ :12000h	500h
<b>Leakage Current</b>	Not more than specified value		Not more than specified value	Not more than specified value	Not more than specified value
<b>Capacitance Change</b>	Within ±30% of initial value (6.3V,10V,±40%)		Within ±25% of initial value (6.3V,10V,±30%)	Within ±25% of initial value (6.3V,10V,±30%)	Within ±20% of initial value
<b>Dissipation Factor</b>	No more than 300% of specified value (6.3V,10V,±400%)		Not more than 200% of specified value (6.3V,10V,±300%)	Not more than 200% of specified value (6.3V,10V,±300%)	Not more than 200% of specified value
<b>Condition:</b> Applied Voltage Applied Current Applied Temperature	$U_R$ $I_R$ 105°C	$U_R$ $1.4 \times I_R$ 60°C	$U_R$ $I_R$ 105°C	$U_R$ $I_R = 0$ 105°C	After test: $U_R$ to be applied for 30min>24h before measurement $U_R=0$ $I_R=0$ 105°C

## Dimensions

mm



## Frequency Coefficient

Frequency Cap (µF)	120Hz	1kHz	10kHz	100kHz
8.2~33	0.42	0.70	0.90	1.00
47~270	0.50	0.73	0.92	1.00
330~680	0.55	0.77	0.94	1.00
820~1800	0.60	0.80	0.96	1.00
2200~6800	0.70	0.85	0.98	1.00

## Temperature Coefficient

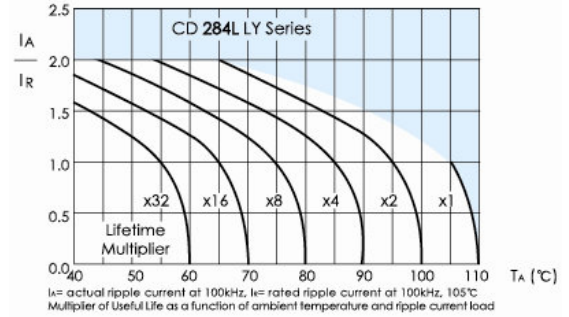
Temperature(°C)	≤65	+85	+105
Coefficient	2.0	1.7	1.0



## Ratings for CD 284L LY Series

U <sub>R</sub> (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C, 120Hz	Max Imp 20°C, 100kHz	Max Imp -10°C, 100kHz	Rated Ripple Current 105°C, 100kHz	Size ΦD×L	P/N
(v)	(μF)	(Ω)	(Ω)	(Ω)	(mA <sub>rms</sub> )	(mm)	-
<b>80 (100) 1K</b>	12	8.846	1.4	5.6	163	5×11.5	ECR1KLY120M□□050011
	33	3.217	0.57	2.3	267	6.3×11.5	ECR1KLY330M□□063011
	56	1.896	0.36	1.4	462	8×11.5	ECR1KLY560M□□080011
	68	1.561	0.25	1.0	585	8×16	ECR1KLY680M□□080016
	82	1.295	0.23	0.96	624	10×12.5	ECR1KLY820M□□100012
	100	1.062	0.19	0.76	735	8×20	ECR1KLY101M□□080020
	120	0.885	0.17	0.72	780	10×16	ECR1KLY121M□□100016
	180	0.590	0.12	0.52	1040	10×20	ECR1KLY181M□□100020
	220	0.483	0.11	0.47	1170	10×25	ECR1KLY221M□□100025
	270	0.393	0.085	0.31	1430	12.5×20	ECR1KLY271M□□125020
	330	0.322	0.060	0.23	1620	12.5×25	ECR1KLY331M□□125025
	390	0.272	0.051	0.21	1950	12.5×30	ECR1KLY391M□□125030
	390	0.272	0.058	0.21	1750	16×20	ECR1KLY391M□□160020
	470	0.226	0.043	0.17	2140	12.5×35	ECR1KLY471M□□125035
	560	0.190	0.036	0.15	2340	12.5×40	ECR1KLY561M□□125040
	560	0.190	0.044	0.16	2210	16×25	ECR1KLY561M□□160025
	560	0.190	0.054	0.18	1950	18×20	ECR1KLY561M□□180020
	680	0.156	0.033	0.12	2400	16×31.5	ECR1KLY681M□□160031
	820	0.129	0.038	0.13	2270	18×25	ECR1KLY821M□□180025
	820	0.129	0.029	0.10	2600	16×35.5	ECR1KLY821M□□160035
1000	0.106	0.031	0.11	2470	18×31.5	ECR1KLY102M□□180031	
1000	0.106	0.027	0.090	2860	16×40	ECR1KLY102M□□160040	
1200	0.088	0.027	0.084	2860	18×35.5	ECR1KLY122M□□180035	
1500	0.071	0.026	0.076	3510	18×40	ECR1KLY152M□□180040	
<b>100 (125) 2A</b>	8.2	12.946	1.4	5.6	163	5×11.5	ECR2ALY8R2M□□050011
	18	5.898	0.57	2.3	267	6.3×11.5	ECR2ALY180M□□063011
	33	3.217	0.36	1.4	462	8×11.5	ECR2ALY330M□□080011
	47	2.259	0.25	1.0	585	8×16	ECR2ALY470M□□080016
	56	1.896	0.23	0.96	624	10×12.5	ECR2ALY560M□□100012
	68	1.561	0.19	0.76	735	8×20	ECR2ALY680M□□080020
	82	1.295	0.17	0.72	780	10×16	ECR2ALY820M□□100016
	100	1.062	0.12	0.52	1040	10×20	ECR2ALY101M□□100020
	120	0.885	0.11	0.47	1170	10×25	ECR2ALY121M□□100025
	150	0.708	0.085	0.31	1430	12.5×20	ECR2ALY151M□□125020
	220	0.483	0.060	0.23	1620	12.5×25	ECR2ALY221M□□125025
	270	0.393	0.051	0.21	1950	12.5×30	ECR2ALY271M□□125030
	270	0.393	0.058	0.21	1750	16×20	ECR2ALY271M□□160020
	330	0.322	0.043	0.17	2140	12.5×35	ECR2ALY331M□□125035
	390	0.272	0.036	0.15	2340	12.5×40	ECR2ALY391M□□125040
	390	0.272	0.044	0.16	2210	16×25	ECR2ALY391M□□160025
	390	0.272	0.054	0.18	1950	18×20	ECR2ALY391M□□180020
	470	0.226	0.033	0.12	2400	16×31.5	ECR2ALY471M□□160031
	470	0.226	0.038	0.113	2270	18×25	ECR2ALY471M□□180025
	560	0.190	0.029	0.10	2600	16×35.5	ECR2ALY561M□□160035
560	0.190	0.031	0.11	2470	18×31.5	ECR2ALY561M□□180031	
680	0.156	0.027	0.090	2860	16×40	ECR2ALY681M□□160040	
680	0.156	0.027	0.084	2860	18×35.5	ECR2ALY681M□□180035	
820	0.129	0.026	0.076	3510	18×40	ECR2ALY821M□□180040	

## Lifetime Diagram



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