SL series 85℃ Low leakage 低漏電品

SL Series

• 85℃ , 2000 hours standard series

• SPECIFICATIONS

Items	Characteristics
Category Temperature Range	- 40 to +85℃
Rated Voltage Range	6.3vto 100Vdc
Capacitance Tolerance	± 20% (M) (at 20℃ ,120Hz)
Leakage Current	I=0.002CV or 0.4 μA , whichever is greater. Where, I :Max. Leakage current (μA). C : Nominal capacitance (μF) .V :Rated voltage(V) (at 20℃ , after 2 minutes)

Dissipation Factor (tan δ)

Rated voltage (Vdc)	6.3V	10V	16V	25V	35V	50V	63V	100V
tan δ (Max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.08	0.08

For capacitance>1000uF.and 2% per another 1000uF (at 20℃ ,120Hz)

Low Temperature Characteristics

Impedance ration max at 120Hz

Working voltage	6.3v	10v	16v	25v	35v	50v	63v	100v
Z-25℃/ Z+20℃	6	5	5	4	4	4	4	4
Z-40℃/ Z+20℃	10	8	6	4	4	3	3	3

Load. Life

The following specifications shall be satisfied when the capacitors are restored to 20℃ after the voltage is applied for 2000 hours at 85℃

Capacitance change	≦±20% of the initial value
DF (tan δ)	≦200 % of the initial specified value
Leakage current	≦The initial specified value

Shelf Life

The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1000 hours at 85℃ without voltage applied.

Capacitance change	≦±20% of the initial value
DF (tan δ)	≦200 % of the initial specified value
Leakage current	≦The initial specified value

Ripple Current Multiplier

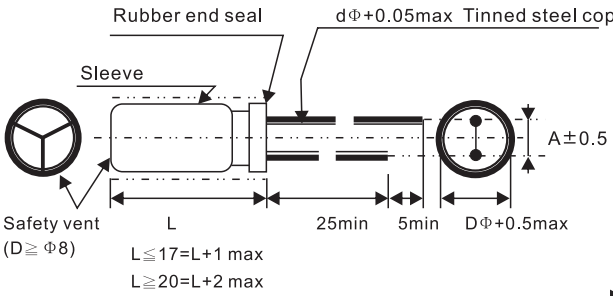
Temperature coefficient

Temperature(℃)	~55	60	70	85
Factor	1.65	1.50	1.30	1.00

Frequency coefficient

cap \ freq	60	120	1k	10k	100k
~100	0.70	1.00	1.55	1.75	2.00
100~1000	0.75	1.00	1.30	1.35	1.35
1000up	0.80	1.00	1.12	1.15	1.15

• Diagram: (Unit: mm)



Body Dia ΦD	5	6	8	10	13		16	18
					L≦21	L≧25		
Lead Dia Φd	0.5			0.6	0.6	0.8	0.8	0.8
Lead Space A	2	2.5	3.5	5			7.5	7.5/10

STANDARD RATING

Vdc / μF	6.3		10		16		25		35		50		63		100	
0.1											5*11	1.3			5*11	2.6
0.22											5*11	2.9			5*11	5.8
0.33											5*11	4.4			5*11	8.8
0.47											5*11	7.0			5*11	12
1.0											5*11	13	5*11	15	5*11	22
2.2											5*11	29	5*11	31	5*11	33
3.3											5*11	35	5*11	37	5*11	40
4.7							5*11	31	5*11	40	5*11	42	5*11	45	5*11	48
10					5*11	44	5*11	54	5*11	58	5*11	65	5*11	70	6.3*11	80
22			5*11	59	5*11	75	5*11	80	5*11	87	5*11	95	6.3*11	115	8*12	135
33			5*11	84	5*11	90	5*11	97	5*11	105	6.3*11	125	6.3*11	140	10*12	195
47			5*11	100	5*11	110	5*11	115	6.3*11	145	6.3*11	150	8*12	190	10*16	225
100	5*11	130	5*11	145	6.3*11	180	6.3*11	190	8*12	240	8*12	255	10*12	300	13*20	450
220	6.3*11	230	6.3*11	250	8*12	300	8*12	320	8*16	370	10*17	490	10*20	550	16*25	810
330	6.3*11	280	8*12	350	8*12	360	10*12	470	10*17	570	10*20	650	13*20	750	16*25	860
470	8*12	380	8*12	415	10*12	520	10*16	620	10*20	740	13*20	860	13*25	880	16*32	1,100
1,000	10*12	650	10*16	790	10*20	910	13*20	1090	13*25	1,300	16*25	1,530	16*32	1,600		
2,200	13*21	1,150	13*20	1,240	13*25	1,420	16*25	1,660	16*32	1,800	18*36	2,160				
3,300	13*21	1,380	13*25	1,590	16*25	1,840	16*32	1,950	16*36	2,300						
4,700	16*25	1,880	16*25	1,980	16*32	2.260	18*36	2,530	18*36	2,400						

Case size ΦD×L (mm)

Rated ripple current (mArms)at 85°C, 120Hz

Ripple Current : mA/rms at 120Hz 85°C