RLS

+85°C Low Leakage Height Aluminum Electrolytic Capacitors



Features

- Low Leakage current
- Lead Free Leads

Applications

- Alternative for Tantalums
- Timing circuits
- Filtering
- De-Coupling

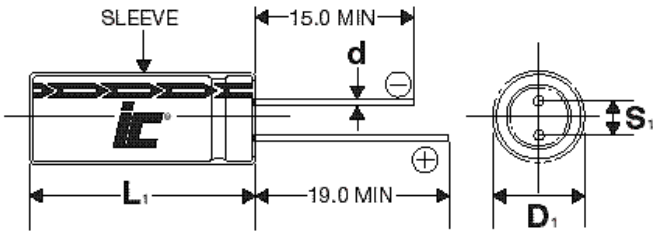
Specifications

Operating Temperature Range		**-40°C to +85°C**					
Capacitance Tolerance		**±20% at 120 Hz, 20°C**					
Surge voltage	**WVDC**	**10**	**16**	**25**	**35**	**50**	
	SVDC	13	20	32	44	63	
Dissipation Factor	**WVDC**	**10**	**16**	**25**	**35**	**50**	
	tan δ	.2	.16	.14	.12	.1	
Leakage current		**2 Minutes**					
		.002CV or 3uA,Whichever is greater					
Low temperature stability Impedance ratio (120 Hz)	**Rated WVDC**	**10**	**16**	**25**	**35**	**50**	
	-25°C to +20°C	3	2	2	2	2	
	-40°C to +20°C	6	4	4	3	3	

Load Life	**2000 hours at 85°C with rated WVDC**	
	Capacitance change	≤20% of initial measured value
	Dissipation factor	≤200% of maximum specified value
	Leakage current	≥100% of maximum specified value
Shelf Life	**1000 hours at 85°C with no voltage applied**	
	Capacitance change	≤20% of initial measured value
	Dissipation factor	≤200% of maximum specified value
	Leakage current	≥100% of maximum specified value

Ripple Current Multipliers

	Frequency (Hz)						**Temperature (°C)**			
Cap	**50**	**120**	**400**	**1k**	**10k**	**100k**	**85**	**70**	**60**	**30**
C≤10	0.8	1.0	1.3	1.45	1.65	1.7	1.0	1.3	1.5	1.8
10<C≤100	0.8	1.0	1.23	1.36	1.48	1.53	1.0	1.3	1.5	1.8
100<C≤1000	0.8	1.0	1.16	1.25	1.35	1.38	1.0	1.3	1.5	1.8
C>1000	0.8	1.0	1.11	1.17	1.25	1.28	1.0	1.3	1.5	1.8



D	5	6.3	8	10	12.5
S	2.0	2.5	3.5	5.0	5.0
d	0.5	0.5	0.6	0.6	0.6

D1=D+0.5mm
D≤8mm, L_1=L+1mm
D>8mm, L_1=L+1.5mm
S_1=S±0.5mm

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RLS

+85°C, Low Leakage 2000 hours

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR (mΩ) 120 Hz, +20°C	Maximum RMS Ripple Current (A) 120 Hz, +105°C	Dims DxL (mm)
0.1	50	104RLS050M	1657.86	6	5x11
0.15	50	154RLS050M	1105.24	7	5x11
0.22	50	224RLS050M	753.575	8	5x11
0.33	50	334RLS050M	502.383	9	5x11
0.47	50	474RLS050M	352.737	10	5x11
0.68	50	684RLS050M	243.804	10	5x11
1	50	105RLS050M	165.786	19	5x11
1.5	50	155RLS050M	110.524	28	5x11
2.2	50	225RLS050M	75.358	33	5x11
3.3	50	335RLS050M	50.238	38	5x11
4.7	50	475RLS050M	35.274	50	5x11
6.8	50	685RLS050M	24.38	63	5x11
10	35	106RLS035M	19.894	57	5x11
10	50	106RLS050M	16.579	80	5x11
15	35	156RLS035M	13.263	70	5x11
15	50	156RLS050M	11.052	110	6.3x11
22	16	226RLS016M	12.057	75	5x11
22	25	226RLS025M	10.55	81	5x11
22	35	226RLS035M	9.043	100	6.3x11
22	50	226RLS050M	7.536	140	6.3x11
33	16	336RLS016M	8.038	95	5x11
33	35	336RLS035M	6.029	120	6.3x11
33	50	336RLS050M	5.024	170	8x11.5
47	10	476RLS010M	7.0547	105	5x11
47	16	476RLS016M	5.644	125	6.3x11
47	25	476RLS025M	4.938	136	6.3x11

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR (mΩ) 120 Hz, +20°C	Maximum RMS Ripple Current (A) 120 Hz, +105°C	Dims DxL (mm)
47	50	476RLS050M	3.527	230	8x11.5
68	16	686RLS016M	3.901	150	6.3x11
68	35	686RLS035M	2.926	200	8x11.5
68	50	686RLS050M	2.438	295	10x12.5
100	10	107RLS010M	3.316	160	6.3x11
100	16	107RLS016M	2.652	212	8x11.5
100	25	107RLS025M	2.321	220	8x11.5
100	35	107RLS035M	1.989	255	10x12.5
100	50	107RLS050M	1.659	400	10x16
150	16	157RLS016M	1.768	255	8x11.5
150	25	157RLS025M	1.547	265	10x12.5
150	35	157RLS035M	1.326	295	10x16
150	50	157RLS050M	1.105	450	10x20
220	10	227RLS010M	1.507	274	8x11.5
220	16	227RLS016M	1.206	322	10x12.5
220	25	227RLS025M	1.055	375	10x16
220	35	227RLS035M	0.904	442	10x20
220	50	227RLS050M	0.754	550	12.5x20
330	10	337RLS010M	1.005	355	10x12.5
330	16	337RLS016M	0.804	425	10x16
330	25	337RLS025M	0.703	500	10x20
330	35	337RLS035M	0.603	595	12.5x20
470	10	477RLS010M	0.706	460	10x16
470	16	477RLS016M	0.564	505	10x20
1000	10	108RLS010M	0.332	805	12.5x20

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