Radial Low Impedance at High Frequency with Longlife 105°C

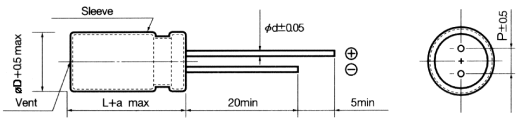
LIHFL Series

- Low impedance at high frequency.
- Long life: 3000 hours at 105℃ with rated voltage.

SPECIFICATION

ITEM	SPECIFICATION					
Capacitance Tolerance (120Hz, 20°C)	±20%(M)					
Rated Working Voltage	6.3WV~35WV					
Operation Temperature Range	-55 ~ +105°C					
Surge Voltage (V)	WV	6.3	10	16	25	35
	SV	8	13	20	32	44
Dissipation Factor (tanδ) (120Hz, 20°C)	D.F.	0.22	0.19	0.16	0.14	0.12
	Add 0.02 per 1000 μF for more than 1000 μF					
Leakage Current	I ≤0.01 CV or 3 Whichever is greater					
	After rated voltage applied for 3 minutes Where I : Leakage Current (μA) C : Capacitance (μF) V : Rated Voltage (V)					
Low Temperature Characteristics	Impedance ratio at 120Hz					
	Comparison Z\WV	6.3	10	16	25	35
	-40°C/20°C	4	3	3	3	3
	-55°C/20°C	6	5	4	4	4
Load Life	After 3000 hours application of W.V. at 105°C, the capacitor shall meet the following limits.					
	Capacitance Change	≤ ±20% of Initial Value				
	Dissipation Factor	≤ 200% of Initial Specified Value				
	Leakage Current	≤ Initial Specified Value				
Shelf Life	After 500 hours to place at 105°C without rated voltage applied, the capactior shall meet the limits as same as load life.					
Others	Satisfied JIS C-5141					

DIMENSIONS (unit:mm)



øD	5	6.3	8	10	13	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
ød	0.5	0.5	0.6	0.6	0.6	0.8	0.8
a	1.0	1.0	1.0	1.0	2.0	2.0	2.0

RIPPLE CURRENT COEFFICIENTS

Frequency Multipliers

Frequency (Hz)	120	1K	10K	100K
Coefficient	0.4	0.7	0.85	1.0

Temperature Multipliers

Temperature (°C)	~75	85	105
Coefficient	1.9	1.6	1.0

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R.C.:/105℃,100KHz
Impedance:/20℃,100KHz

CAP Code		6.3			10			16			25			35		
		Case Size (mm)	Ripple Current (mA)	Impedance (Ω)	Case Size (mm)	Ripple Current (mA)	Impedance (Ω)	Case Size (mm)	Ripple Current (mA)	Impedance (Ω)	Case Size (mm)	Ripple Current (mA)	Impedance (Ω)	Case Size (mm)	Ripple Current (mA)	Impedance (Ω)
4R7	4.7													5×11	116	1.020
100	10													5×11	142	0.770
220	22													5×11	193	0.360
330	33													5×11	193	0.360
470	47							5×11	177	0.430	5×11	193	0.360	6.3×11	216	0.310
101	100				5×11	193	0.360	6.3×11	295	0.220	6.3×11	306	0.190	8×11	469	0.120
221	220				6.3×11	306	0.190	8×11	469	0.120	8×14	662	0.085	10×12.5	764	0.072
331	330	6.3×11	295	0.210	8×11	469	0.120	8×14	662	0.085	8×20	816	0.059	10×20	1274	0.037
471	470	8×11	469	0.120	8×14	662	0.095	10×12.5	764	0.072	10×15	1070	0.058	10×25	1326	0.033
102	1000	8×20	816	0.058	10×15	1070	0.048	10×25	1326	0.033	13×20	1482	0.032	13×25	1734	0.025
122	1200	10×15	968	0.048	10×20	1274	0.034	13×20	1428	0.032	13×25	1734	0.025	13×30	1980	0.021
152	1500	10×20	1274	0.034	10×25	1326	0.031	13×20	1693	0.031	13×30	1988	0.022	16×26	2142	0.020
222	2200	10×25	1296	0.031	13×20	1428	0.031	13×25	1988	0.026	13×36	2559	0.019	16×32	2396	0.016
332	3300	13×20	1494	0.031	13×25	1754	0.026	13×36	2258	0.019	16×36	2708	0.016	18×36	2640	0.014
472	4700	13×30	2078	0.021	13×36	2258	0.019	16×36	2294	0.016						
682	6800	16×26	2301	0.018	16×36	2294	0.016									
103	10000	16×36	2646	0.016												