

Aluminum Electrolytic Capacitors



Radial Low Impedance at High Frequency 105°C

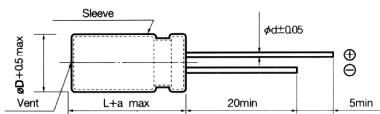
LIHF Series

• Low impedance at high frequency

SPECIFICATION

ITEM	SPECIFICATION						
Capacitance Tolerance (120Hz, 20°C)	± 20% (M)						
Rated Working Voltage	6.3WV-50WV						
Operation Temperature Range	-55 ~ +105°C						
Surge Voltage (V)	WV	6.3	10	16	25	35	50
	SV	8	13	20	32	44	63
Dissipation Factor (tan δ) (120Hz 20°C)	D.F.	0.22	0.19	0.16	0.14	0.12	0.10
	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	50
	-40°C/20°C	4	3	3	3	3	3
	-55°C/20°C	6	5	4	4	4	4
Load Life	After 1000 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 capacitor 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°C, 100KHz
Impedance:/20°C,100KHz

CAP Code	WV μF	6.3			10			16			25			35			50		
		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)	Case Size (mm)	Ripple Current (mA)	Impedance (Ω)
4R7	4.7												5×11	97	1.200	5×11	76	2.000	
100	10												5×11	119	0.900	5×11	93	1.700	
220	22												5×11	161	0.420	5×11	136	0.700	
330	33												5×11	161	0.420	5×11	150	0.650	
470	47							5×11	148	0.500	5×11	161	0.420	6.3×11	180	0.360	6.3×11	178	0.520
101	100				5×11	161	0.420	6.3×11	246	0.250	6.3×11	255	0.220	8×11	391	0.140	8×14	425	0.250
221	220				6.3×11	255	0.220	8×11	391	0.140	8×14	552	0.100	10×12.5	637	0.085	10×15	520	0.200
331	330	6.3×11	246	0.250	8×11	391	0.140	8×14	552	0.100	8×20	680	0.069	10×20	1062	0.044	10×25	807	0.072
471	470	8×11	391	0.140	8×14	552	0.100	10×12.5	637	0.085	10×15	892	0.068	10×25	1105	0.039	13×20	935	0.065
102	1000	8×14	680	0.100	10×15	892	0.068	10×25	1105	0.039	13×20	1190	0.038	13×25	1445	0.029	16×26	1360	0.039
122	1200	10×15	807	0.064	10×20	1062	0.044	13×20	1190	0.038	13×25	1445	0.029	13×30	1650	0.025	16×32	1615	0.025
152	1500	10×20	1062	0.044	10×25	1105	0.039	13×20	1411	0.036	13×30	1657	0.026	16×26	1785	0.024	16×36	1785	0.025
222	2200	10×25	1080	0.042	13×20	1190	0.038	13×25	1657	0.030	13×36	2133	0.022	16×32	1997	0.019			
332	3300	13×20	1245	0.038	13×25	1462	0.030	13×36	1882	0.022	16×36	2257	0.019	18×36	2200	0.016			
472	4700	13×30	1732	0.025	13×36	1882	0.022	16×36	1912	0.019									
682	6800	16×26	1920	0.022	16×36	1912	0.019												
103	10000	16×36	2205	0.019															