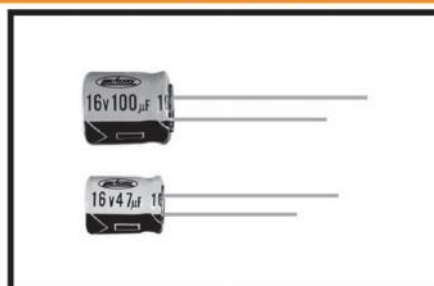


LP **SERIES**

Low Leakage Current



◆ SPECIFICATIONS

Items	Characteristics							
Category Temperature Range	-40~+85°C							
Rated Voltage Range	6.3~50V.DC							
Capacitance Tolerance	±20%(20°C,120Hz)							
Leakage Current(MAX)	I=0.002CV or 0.4μA whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(μA) C=Rated Capacitance(μF) V=Rated Voltage(V)							
Dissipation Factor(MAX)	(L=7)							
	Rated Voltage (V)	6.3	10	16	25	35	50	(20°C,120Hz)
	tanδ	0.24	0.20	0.16	0.14	0.12	0.10	
	(L≥11)							
	Rated Voltage (V)	6.3	10	16	25	35	50	(20°C,120Hz)
	tanδ	0.22	0.19	0.16	0.14	0.12	0.10	
	When rated capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.							
Endurance	After life test with rated ripple current at conditions stated in the table below, the capacitors shall meet the following requirements.							
	Capacitance Change		Within ±25% of the initial value.				Case Size	Life Time (hrs)
	Dissipation Factor		Not more than 200% of the specified value.				L=7	1000
	Leakage Current		Not more than the specified value.				L≥11	2000
Low Temperature Stability Impedance Ratio(MAX)	(120Hz)							
	Rated Voltage (V)	6.3	10	16	25	35	50	
	Z(-25°C)/Z(20°C)	4	3	2	2	2	2	
	Z(-40°C)/Z(20°C)	8	6	6	4	4	3	

◆ MULTIPLIER FOR RIPPLE CURRENT

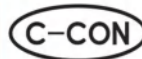
Frequency coefficient

Frequency (Hz)		60(50)	120	500	1k	10k≤
Coefficient	0.1~1μF	0.50	1.00	1.20	1.30	1.50
	2.2~4.7μF	0.65	1.00	1.20	1.30	1.50
	10~47μF	0.80	1.00	1.20	1.30	1.50
	100~1000μF	0.80	1.00	1.10	1.15	1.20
	2200μF	0.80	1.00	1.05	1.10	1.15

♦ PART NUMBER

Rated Voltage	Series	Rated Capacitance	Capacitance Tolerance	Option	Lead Forming	Case Size

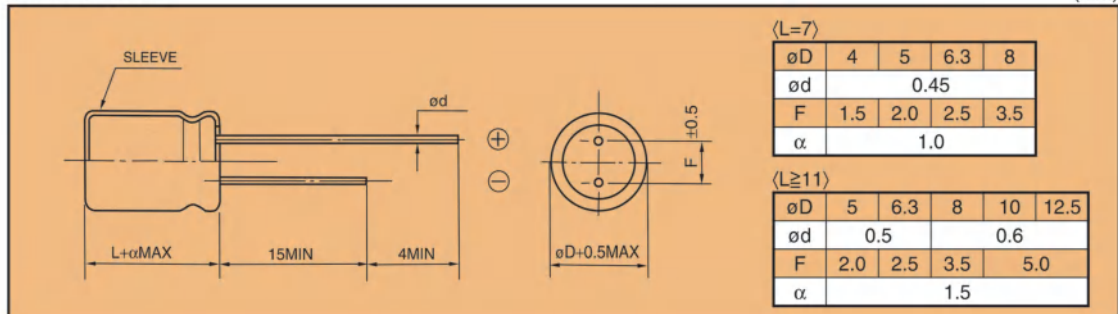
LP CD117



MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

◆ DIMENSIONS

(mm)



◆ STANDARD SIZE, RATED RIPPLE CURRENT

Size øD×L(mm), Ripple Current (mA r.m.s./85°C, 120Hz)

Cap(μF) WV(V.DC)	6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1											4×7	1.0
											5×11	1.1
0.22											4×7	2.3
											5×11	2.5
0.33											4×7	3.5
											5×11	4.0
0.47											4×7	5.0
											5×11	7.0
1											4×7	10
											5×11	13
2.2											4×7	16
											5×11	23
3.3											4×7	19
											5×11	35
4.7							4×7	21	4×7	22	5×7	29
							5×11	30	5×11	35	5×11	41
10					4×7	28	5×7	33	5×7	32	6.3×7	44
					5×11	40	5×11	50	5×11	55	5×11	60
22	4×7	34	5×7	38	5×7	44	6.3×7	55	6.3×7	60	8×7	65
	5×11	48	5×11	55	5×11	70	5×11	87	5×11	95	6.3×11	110
33	5×7	42	5×7	47	6.3×7	62	6.3×7	65	8×7	73		
	5×11	55	5×11	74	5×11	90	5×11	110	6.3×11	120	6.3×11	140
47	5×7	50	6.3×7	66	6.3×7	73	8×7	80				
	5×11	79	5×11	90	5×11	120	6.3×11	130	6.3×11	145	8×11.5	190
100	6.3×7	87	8×7	99	8×7	110						
	5×11	100	6.3×11	150	6.3×11	185	8×11.5	210	8×11.5	250	10×12.5	300
220	8×7	133										
	6.3×11	220	8×11.5	280	8×11.5	310	10×12.5	370	10×16	420	10×20	490
330	8×11.5	310	8×11.5	360	10×12.5	410	10×16	480	10×20	540	12.5×20	680
470	8×11.5	400	10×12.5	460	10×16	530	10×20	600	12.5×20	730		
1000	10×16	660	10×20	760	12.5×20	900	12.5×25	1000				
2200	12.5×20	1050	12.5×25	1200								

LP