

Screw terminal capacitor

Liron®

LPD Series (85 °C for 10000 hours)



- Rohs requirements.
- 85 °C 10000 hours series.
- Used for switching power supply, frequency converter, air conditioning, filter circuit, laser spot welding machine, printed circuit board and other general industrial products.

Product description

Item	Characteristic	
Operating temperature range	-40 °C ~ +85 °C	-25 °C ~ +85 °C
Rated voltage(WV/V)	400V ~ 450V	500V
Capacitance(CAP/C)	1500 ~ 15000	
Tolerance(CAP/C)	±20% (25 °C, 120Hz)	
Leakage current LC/I(25 °C, 120Hz)	LC ≤ 0.01CV(μA) or 5mA, take the smaller value (25 °C, 5minutes) C=Nominal capacitance(μF), V=Working voltage(V)	
Dissipation factor DF/tan δ(25 °C, 120Hz)	≤ 0.2	
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40 °C)/C(+25 °C) ≥ 0.6(400V ~ 450V)	
	C(-25 °C)/C(+25 °C) ≥ 0.7(460V ~ 500V)	

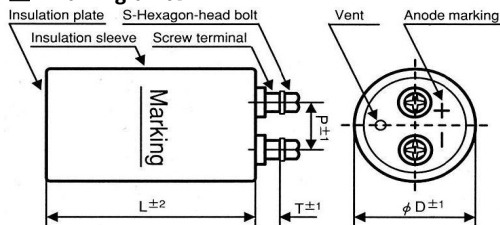
Load Time	Working lifetime		Standard lifetime	Durability	High temperature storage	
	15000h	>25000h	10000h	10000h	1000h	
Leakage current LC/I(25 °C, 120Hz)	Within the rated specification value.		Within the rated specification value.	Within the rated specification value.	Within the rated specification value.	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR=0	Apply rated working voltage for 60 minutes, and conduct the test after 24-hour recovery.
	IR	UR 1.2×IR	UR IR	UR IR=0	IR=0	
Application temperature	85 °C	40 °C	85 °C	85 °C	85 °C	

Ripple current correction factor

Temp °C UR(V)	Temp °C				Freq UR(V)	Freq				
	40	60	70	85		50/60Hz	120Hz	300KHz	1KHz	≥10KHz
350 ~ 500	1.89	1.67	1.5	1.0	350 ~ 450	0.80	1.00	1.10	1.30	1.40

Aluminum electrolytic capacitors age as they heat up and temperature rises when ripple current is superimposed. Using at higher temperatures will reduce product life. To maintain product life, please reduce ripple current during use.

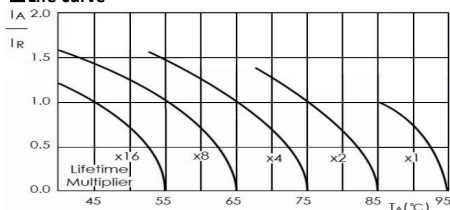
Drawing unit: mm



Capacitors with screw terminals series

ΦD±1	P±1	S±0.5	T±1	CAP material
36	12.7	M5×10	6	EP
51	22	M5×10	6	EP
64	28.6	M5×10	6	EP
77	31.4	M5×10	6	EP
90	31.4	M5×10	6	EP
101	41.5	M8×17	10	EP

Life curve



Multiplier of useful life as a function of ambient temperature and ripple current load I
A : actual ripple current at 120Hz, IR: rated ripple current at 120Hz 105 °C

■ LPD series : 85 °C 10000 hours screw capacitor

WV (V.DC)	CAP 25 °C, 120Hz	DF 25 °C, 120Hz	Max ESR 25 °C, 120Hz	ESR(typ.) 25 °C, 120Hz	Rated Ripple Current 105, 120Hz	Size ΦD×L (mm)	Code P/N
(V.DC)	(μF)	(%)	(mΩ)	(mΩ)	(Arms)	(mm)	
400 2G(450)	2700	0.20	74	36	8.2	64 x 100	LPD2G272MD100***
	3300	0.20	58	28	10.2	64 x 115	LPD2G332MD115***
	3900	0.20	52	26	12.3	64 x 130	LPD2G392MD130***
	3900	0.20	50	24	12.2	77 x 115	LPD2G392ME115***
	4700	0.20	40	19	12.9	64 x 130	LPD2G472MD130***
	4700	0.20	42	21	14.8	77 x 115	LPD2G472ME115***
	5600	0.20	36	18	16.9	77 x 130	LPD2G562ME130***
	5600	0.20	34	16	16.9	90 x 130	LPD2G562MF130***
	6800	0.20	30	15	19.5	77 x 155	LPD2G682ME155***
	6800	0.20	28	13	19.5	90 x 145	LPD2G682MF145***
	8200	0.20	24	12	22.9	90 x 145	LPD2G822MF145***
	10000	0.20	20	10	25.3	90 x 145	LPD2G103MF145***
	12000	0.20	18	9	27.3	90 x 170	LPD2G123MF170***
15000	0.20	16	8	29.9	90 x 196	LPD2G153MF196***	
450 2W(500)	2200	0.20	90	44	10.4	64 x 96	LPD2W222MD096***
	2200	0.20	90	44	11.5	77 x 96	LPD2W222ME096***
	2700	0.20	74	36	12.8	64 x 130	LPD2W272MD130***
	3300	0.20	58	28	15.2	64 x 130	LPD2W332MD130***
	3300	0.20	58	28	15.2	77 x 130	LPD2W332ME130***
	3900	0.20	52	25	15.8	64 x 130	LPD2W392MD130***
	3900	0.20	52	25	16.5	77 x 130	LPD2W392ME130***
	4700	0.20	40	19	18	77 x 140	LPD2W472ME140***
	4700	0.20	40	19	20.8	90 x 130	LPD2W472MF130***
	5600	0.20	34	16	21.8	77 x 160	LPD2W562ME160***
	5600	0.20	34	16	24.2	90 x 157	LPD2W562MF157***
	6800	0.20	28	13	24.9	90 x 157	LPD2W682MF157***
	8200	0.20	22	10	32.2	90 x 157	LPD2W822MF157***
10000	0.20	18	8	36.9	90 x 170	LPD2W103MF170***	
500 2H(550)	1500	0.20	146	72	8.6	64 x 115	LPD2H152MD115***
	1800	0.20	130	60	10	64 x 130	LPD2H182MD130***
	2200	0.20	100	49	11.7	64 x 130	LPD2H222MD130***
	2700	0.20	80	39	15	77 x 130	LPD2H272ME130***
	3300	0.20	66	32	17.5	77 x 145	LPD2H332ME145***
	3900	0.20	56	27	20.2	77 x 155	LPD2H392ME155***
	4700	0.20	46	22	21.8	90 x 130	LPD2H472MF130***
	5600	0.20	38	18	25.3	90 x 157	LPD2H562MF157***
	6800	0.20	30	14	29	90 x 170	LPD2H682MF170***

**** Indicates terminal type, length, and sleeve color.

If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.

The content recorded in the catalog book may be changed without notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.