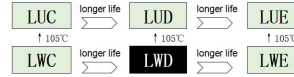


Screw Terminal Capacitor *Liron*[®]

LWD Series 85°C 10000 Hours



- Rohs requirements.
- 85°C 10000 hours, large ripple resistant series.
- Used for industrial products such as switching power supplies, inverters, rectifiers, energy storage and other industrial products.

■ Description

Item	Characteristic	
Operating temperature range	-40°C~+85°C	-25°C~+85°C
Rated voltage(WV/V)	400V~450V	460V~500V
Capacitance(CAP/C)	1500~12000	
Tolerance(CAP/C)	±20% (25°C, 120Hz)	
Leakage current	LC≤0.01CV(μA) or 5mA, take the smaller value (25°C, 5minutes)	
Dissipation factor DF/tanδ(25°C, 120Hz)	≤0.20	
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)	

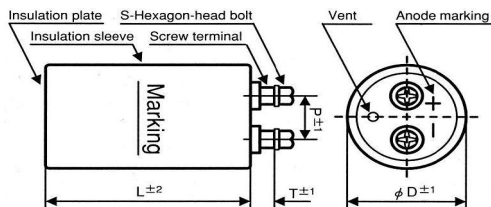
	Working lifetime		Standard lifetime	Durability	High temperature storage
Load time	10000h	>150000h	10000h	10000h	1000h
LC/I(25°C, 120Hz)	Within the rated specification value.		Within the rated specification value.	Within the rated specification value.	Within the rated specification value.
Capacitance change	Within ±30% of initial value	Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	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	Within 200% of rated specification value
Environmental condition: Applied voltage	UR	UR	UR	UR	Apply The Rated Operating Voltage UR 60 Minutes And Test After 24 Hours Of Recovery.
Applied current	IR	1.2×IR	IR	IR=0	
Application temperature	85°C	40°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
25~500	1.89	1.67	1.5	1.0	400~550	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.

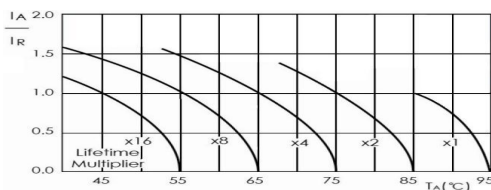
■ Drawing unit: mm



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, I_R : rated ripple current at 120Hz 105°C

■LWD series:85°C 10000 hours screw large ripple resistant 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	74.0	36	12	64 x 100	LWD 2G272MD100***
	3300	0.20	65.0	21	13.2	64 x 115	LWD 2G332MD115***
	3900	0.20	50.0	19	15.3	64 x 130	LWD 2G392MD130***
	3900	0.20	50.0	24	16.2	77 x 115	LWD 2G392ME115***
	4700	0.20	40.0	19	17.7	64 x 155	LWD 2G472MD155***
	4700	0.20	40.0	19	17.7	77 x 115	LWD 2G472ME115***
	5600	0.20	34.0	16	19.4	77 x 130	LWD 2G562ME130***
	5600	0.20	34.0	16	19.4	90 x 130	LWD 2G562MF130***
	6800	0.20	28.0	13	22.4	77 x 155	LWD 2G682ME155***
	6800	0.20	28.0	13	22.4	90 x 130	LWD 2G682MF130***
	8200	0.20	22.0	10	26.4	90 x 130	LWD 2G822MF130***
	10000	0.20	18.0	8	29.0	90 x 157	LWD 2G103MF157***
12000	0.20	22.0	10	34.2	90 x 170	LWD 2G123MF170***	
450 2W(500)	2200	0.20	90.0	44	12.4	64 x 100	LWD 2W222MD100**
	2200	0.20	90.0	44	13.8	77 x 96	LWD 2W222ME096**
	2700	0.20	74.0	36	15.3	64 x 130	LWD 2W272MD130**
	3300	0.20	58.0	28	18.4	64 x 155	LWD 2W332MD155**
	3300	0.20	58.0	28	18.4	77 x 115	LWD 2W332ME115**
	3900	0.20	52.0	25	18.9	64 x 155	LWD 2W392MD155**
	3900	0.20	52.0	25	19.8	77 x 130	LWD 2W392ME130**
	4700	0.20	40.0	19	21.6	77 x 145	LWD 2W472ME145**
	4700	0.20	40.0	19	24.9	90 x 130	LWD 2W472MF130**
	5600	0.20	34.0	16	26.1	77 x 155	LWD 2W562ME155**
	5600	0.20	34.0	16	29.4	90 x 130	LWD 2W562MF130**
	6800	0.20	28.0	13	29.8	90 x 157	LWD 2W682MF157**
8200	0.20	22.0	10	38.6	90 x 157	LWD 2W822MF157**	
10000	0.20	18.0	8	44.2	90 x 170	LWD 2W103MF170**	
500 2H(550)	1500	0.20	146.0	72	10.3	64 x 115	LWD 2H152MD115**
	1800	0.20	130.0	60	12	64 x 130	LWD 2H182MD130**
	2200	0.20	100.0	49	14.4	64 x 145	LWD 2H222MD145**
	2700	0.20	80.0	39	18	77 x 115	LWD 2H272ME115**
	3300	0.20	66.0	32	21	77 x 145	LWD 2H332ME145**
	3900	0.20	56.0	27	24.4	77 x 155	LWD 2H392ME155**
	4700	0.20	46.0	22	26.6	90 x 130	LWD 2H472MF130**
	5600	0.20	38.0	18	30.6	90 x 157	LWD 2H562MF157**
6800	0.20	30.0	14	34.8	90 x 170	LWD 2H682MF170**	

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

Your company needs to know more about the product specifications, dimensions and other related data. If not all are listed, you can contact us by phone, WeChat or 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.