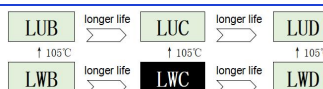


Screw terminal capacitor

Liron®

LWC Series (85°C for 8000 hours)



- Rohs requirements.
- 85°C 8000 hours, large ripple resistant series.
- Used in switching power supplies, inverters, rectifiers, energy storage and other industrial products.

Product 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/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/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)	
Implementation Standards	JIS C 5101-4	

	Working lifetime		Standard lifetime	Durability	High temperature storage
	10000h	>150000h			
Load time	10000h	>150000h	8000h	9000h	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
Applied current	IR	1.2×IR	IR	IR=0	IR=0
Application temperature	85°C	40°C	85°C	85°C	85°C

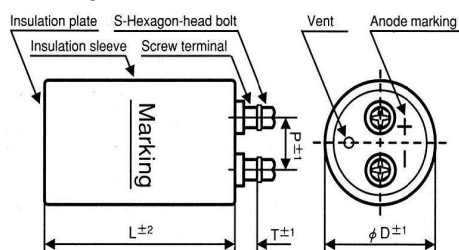
Apply rated working voltage for 60 minutes, and conduct the test after 24-hour recovery.

Ripple current correction factor

Temperature °C	40	60	70	85	Frequency	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	2.24	1.81	1.56	1.0	Coefficient	0.80	1.00	1.18	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.

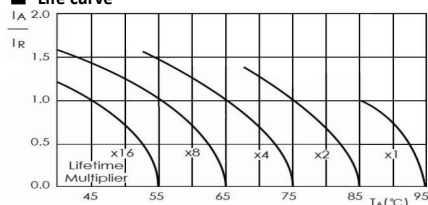
Drawing unit: mm



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

■ LWC series:85°C 8000 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 Rippie Current 105, 120Hz	Size ΦD×L (mm)	Code P/N
(V.DC)	(μF)	(%)	(mΩ)	(mΩ)	(Arms)	(mm)	
400 2G(450)	2700	0.2	74.0	36	12	64 x 100	LWC2G272MD100***
	3300	0.2	65.0	21	13.2	64 x 115	LWC2G332MD115***
	3900	0.2	50.0	19	15.36	64 x 130	LWC2G392MD130***
	3900	0.2	50.0	24	16.2	77 x 115	LWC2G392MD115***
	4700	0.2	40.0	19	17.76	64 x 155	LWC2G472MD155***
	4700	0.2	40.0	19	17.76	77 x 115	LWC2G472MD115***
	5600	0.2	34.0	16	19.44	77 x 130	LWC2G562MD130***
	5600	0.2	34.0	16	19.44	90 x 130	LWC2G562MF130***
	6800	0.2	28.0	13	22.44	77 x 155	LWC2G682MD155***
	6800	0.2	28.0	13	22.44	90 x 145	LWC2G682MF145***
	8200	0.2	22.0	10	26.4	90 x 157	LWC2G822MF157***
	10000	0.2	18.0	8	29.04	90 x 157	LWC2G103MF157***
12000	0.2	22.0	10	34.2	90 x 196	LWC2G123MF196***	
450 2W (500)	2200	0.2	90.0	44	12.48	64 x 115	LWC2W222MD115**
	2200	0.2	90.0	44	13.8	77 x 96	LWC2W222MD096**
	2700	0.2	74.0	36	15.36	64 x 130	LWC2W272MD130**
	3300	0.2	58.0	28	18.24	64 x 155	LWC2W332MD155**
	3300	0.2	58.0	28	18.24	77 x 115	LWC2W332MD115**
	3900	0.2	52.0	25	18.96	64 x 155	LWC2W392MD155**
	3900	0.2	52.0	25	19.8	77 x 130	LWC2W392MD130**
	4700	0.2	40.0	19	21.6	77 x 145	LWC2W472MD145**
	4700	0.2	40.0	19	24.96	90 x 130	LWC2W472MF130**
	5600	0.2	34.0	16	26.16	77 x 155	LWC2W562MD155**
	5600	0.2	34.0	16	29.04	90 x 130	LWC2W562MF130**
	6800	0.2	28.0	13	29.88	90 x 157	LWC2W682MF157**
8200	0.2	22.0	10	38.64	90 x 157	LWC2W822MF157**	
10000	0.2	18.0	8	44.28	90 x 170	LWC2W103MF170**	
500 2H(550)	1500	0.2	146.0	72	10.32	64 x 115	LWC2H152MD115**
	1800	0.2	130.0	60	12	64 x 130	LWC2H182MD130**
	2200	0.2	100.0	49	14.04	64 x 145	LWC2H222MD145**
	2700	0.2	80.0	39	18	77 x 115	LWC2H272MD115**
	3300	0.2	66.0	32	21	77 x 145	LWC2H332MD145**
	3900	0.2	56.0	27	24.24	77 x 155	LWC2H392MD155**
	4700	0.2	46.0	22	26.16	90 x 130	LWC2H472MF130**
	5600	0.2	38.0	18	30.36	90 x 157	LWC2H562MF157**
6800	0.2	30.0	14	34.8	90 x 170	LWC2H682MF170**	

**** 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.