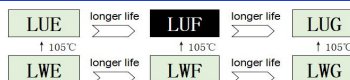


Screw Terminal Capacitor

LUF Series 105°C 15000 Hours



- RoHS Requirements.
- 105°C 15000 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 ~ +105°C
Rated voltage(WV/V)	250V ~ 450V
Capacitance(CAP/C)	220 ~ 18000
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)	U _a (V) 250 ~ 450 DF ≤ 0.20
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40°C/C(+25°C)) ≥ 0.6 C(-25°C/C(+25°C)) ≥ 0.7

Load time	Working lifetime		Standard lifetime	Durability	High temperature storage
	15000h	>220000h	15000h	15000h	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
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	105°C	40°C	105°C	105°C	105°C

Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.

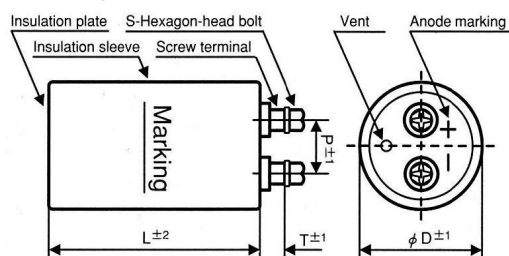
Ripple current correction factor

Temp.°C	40	60	85	105
Coefficient	2.24	2.16	2.0	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.10	1.30	1.40

Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

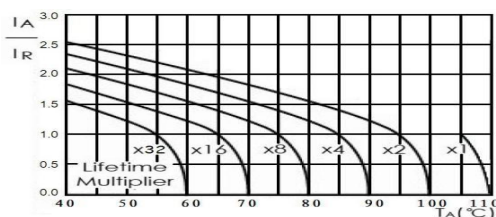
Drawing unit: mm



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

■ LUF series : 105°C 15000 hours high ripple 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°C, 120Hz	Size ΦD×L (mm)	Code P/N
(V.DC)	(μF)		(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	330	0.20	804	320	1.2	36 x 80	LUF2V331MA080***
	470	0.20	564	240	1.5	36 x 80	LUF2V471MA080***
	680	0.20	390	170	2.1	51 x 100	LUF2V681MC100***
	1000	0.20	265	110	2.5	51 x 100	LUF2V102MC100***
	1500	0.20	176	80	3.1	51 x 100	LUF2V152MC100***
	3300	0.20	80	40	5.6	64 x 115	LUF2V332MD115***
	4700	0.20	56	30	7.3	77 x 115	LUF2V472ME115***
	6800	0.20	39	20	9.3	77 x 155	LUF2V682ME155***
	10000	0.20	26	16	12.7	90 x 157	LUF2V103MF157***
	15000	0.20	17	12	16.6	90 x 196	LUF2V153MF196***
400 2G (450)	1000	0.20	265	164	3.5	51 x 80	LUF2G102MC080***
	1200	0.20	221	140	4.2	51 x 100	LUF2G122MC100***
	1500	0.20	176	98	4.8	51 x 100	LUF2G152MC100***
	1800	0.20	147	78	5.5	64 x 96	LUF2G182MD096***
	2200	0.20	120	60	6.1	64 x 96	LUF2G222MD096***
		0.20	120	60	6.1	64 x 115	LUF2G222MD115***
	2700	0.20	98	44	7.1	64 x 115	LUF2G272MD115***
		0.20	98	44	7.1	77 x 100	LUF2G272ME100***
	3300	0.20	80	40	8.3	64 x 130	LUF2G332MD130***
		0.20	80	40	8.3	77 x 105	LUF2G332ME105***
	3900	0.20	68	36	9.7	64 x 145	LUF2G392MD145***
		0.20	68	36	9.1	77 x 115	LUF2G392ME115***
	4700	0.20	56	26	11.7	77 x 145	LUF2G472ME145***
		0.20	56	26	10.5	90 x 130	LUF2G472MF130***
	5600	0.20	47	24	12.9	77 x 155	LUF2G562ME155***
		0.20	47	24	12.4	90 x 130	LUF2G562MF130***
	6800	0.20	39	22	14.7	77 x 190	LUF2G682ME190***
		0.20	39	22	14.4	90 x 130	LUF2G682MF130***
	8200	0.20	32	20	15.5	77 x 200	LUF2G822ME200***
		0.20	32	20	15.9	90 x 157	LUF2G822MF157***
10000	0.20	26	18	19.3	77 x 240	LUF2G103ME240***	
	0.20	26	18	19.3	90 x 196	LUF2G103MF196***	
12000	0.20	22	16	21.1	101 x 196	LUF2G123MG196***	
15000	0.20	17	12	24.7	101 x 236	LUF2G153MG236***	
18000	0.20	14	10	26.3	101 x 250	LUF2G183MG250***	

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°C, 120Hz	Size ΦD×L (mm)	Code P/N
(V.DC)	(μF)		(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	220	0.20	1206	830	1.6	36 x 50	LUF2W221MA050***
	270	0.20	982	736	1.8	36 x 60	LUF2W271MA060***
	330	0.20	804	554	2.1	36 x 80	LUF2W331MA080***
	470	0.20	564	390	2.8	51 x 80	LUF2W471MC080***
	560	0.20	473	342	3.2	51 x 80	LUF2W561MC080***
	680	0.20	390	270	3.6	51 x 80	LUF2W681MC080***
	820	0.20	323	224	4.8	51 x 80	LUF2W821MC080***
	1000	0.20	265	180	5.6	51 x 100	LUF2W102MC100***
	1200	0.20	221	140	6.4	51 x 100	LUF2W122MC100***
	1500	0.20	176	108	7.6	51 x 100	LUF2W152MC100***
	1800	0.20	147	86	8.7	51 x 100	LUF2W182MC100***
	2200	0.20	120	66	9.9	64 x 115	LUF2W222MD115***
		0.20	120	66	9.8	77 x 100	LUF2W222ME100***
	2700	0.20	98	56	11.8	64 x 130	LUF2W272MD130***
		0.20	98	58	11.6	77 x 105	LUF2W272ME105***
	3300	0.20	80	44	13.9	64 x 145	LUF2W332MD145***
		0.20	80	46	13.6	77 x 115	LUF2W332ME115***
	4700	0.20	56	36	17.2	77 x 145	LUF2W472ME145***
		0.20	56	36	17	90 x 130	LUF2W472MF130***
	5600	0.20	47	32	20.9	77 x 170	LUF2W562ME170***
0.20		47	32	21.4	90 x 157	LUF2W562MF157***	
6800	0.20	39	30	22.1	77 x 195	LUF2W682ME195***	
	0.20	39	30	21.7	90 x 157	LUF2W682MF157***	
8200	0.20	32	20	24.7	77 x 220	LUF2W822ME220***	
	0.20	32	20	24.5	90 x 196	LUF2W822MF196***	
10000	0.20	26	18	27.4	77 x 236	LUF2W103ME236***	
	0.20	26	18	27.2	90 x 220	LUF2W103MF220***	
12000	0.20	22	16	31.7	90 x 236	LUF2W123MF236***	
	0.20	22	16	31.4	101 x 196	LUF2W123MG196***	
15000	0.20	17	12	34.2	90 x 250	LUF2W153MF250***	
	0.20	20	10	33.9	101 x 236	LUF2W153MG236***	

*** Indicates product mounting method, terminal diameter, and thread size;

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.

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