

## Screw Terminal Capacitor

### LUG Series 105°C 18000 Hours



- Rohs requirements.
- 105°C 18000 hours, large ripple resistant series.
- Used for industrial products such as switching power supplies, inverters, rectifiers, energy storage and other industrial products

#### Product 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 <sub>g</sub> (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
	18000h	>220000h	18000h	18000h	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

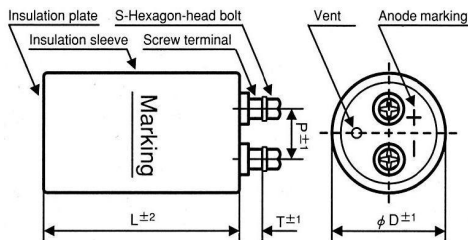
Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.

#### Ripple current correction factor

Temp. °C	40	60	85	105	Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	2.24	2.16	2.0	1.0	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.

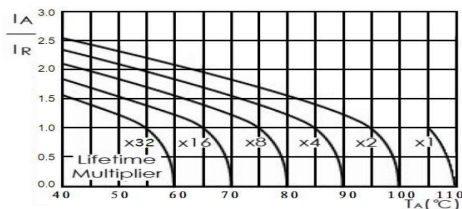
#### Drawing unit: mm



#### 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<sub>A</sub>: actual ripple current at 120Hz, I<sub>R</sub>: rated ripple current at 120Hz 105°C

## ■LUG:105 °C 18000 hours long lifetime,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	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)	-	(V.DC)	(μF)		(mΩ)	(mΩ)	(Arms)	(mm)	-
250 2E (300)	330	0.20	804	320	1.2	36 x 50	LUG2E331MA050***	450 2W (500)	220	0.20	1206	830	1.6	36 x 50	LUG2W221MA050***
	470	0.20	564	240	1.5	36 x 50	LUG2E471MA050***		270	0.20	982	736	1.9	36 x 60	LUG2W271MA060***
	680	0.20	390	170	2	36 x 80	LUG2E681MA080***		330	0.20	804	554	2.2	36 x 80	LUG2W331MA080***
	1000	0.20	265	110	2.6	36 x 100	LUG2E102MA100***		470	0.20	564	390	2.8	51 x 80	LUG2W471MC080***
	1500	0.20	176	80	3.1	51 x 80	LUG2E152MC080***		560	0.20	473	342	3.2	51 x 80	LUG2W561MC080***
	3300	0.20	80	40	5.7	64 x 96	LUG2E332MD096***		680	0.20	390	270	3.6	51 x 80	LUG2W681MC080***
	4700	0.20	56	30	7.3	64 x 115	LUG2E472MD115***		820	0.20	323	224	4.8	51 x 80	LUG2W821MC080***
	6800	0.20	39	20	9.3	64 x 115	LUG2E682MD115***		1000	0.20	265	180	5.7	51 x 100	LUG2W102MC100***
	10000	0.20	26	16	12.7	77 x 155	LUG2E103ME155***		1200	0.20	221	140	6.5	51 x 110	LUG2W122MC110***
	15000	0.20	17	12	16.6	90 x 157	LUG2E153MF157***		1500	0.20	176	108	7.7	51 x 120	LUG2W152MC120***
400 2G (450)	1000	0.20	265	164	3.5	51 x 80	LUG2G102MC080***	1800	0.20	147	86	8.7	64 x 115	LUG2W182MD115***	
	1200	0.20	221	140	4.2	51 x 100	LUG2G122MC100***	2200	0.20	120	66	9.9	64 x 130	LUG2W222MD130***	
	1500	0.20	176	98	4.8	51 x 110	LUG2G152MC110***	2200	0.20	120	66	9.8	77 x 100	LUG2W222ME100***	
	1800	0.20	147	78	5.5	51 x 120	LUG2G182MC120***	2700	0.20	98	56	11.9	64 x 130	LUG2W272MD130***	
	2200	0.20	120	60	6.1	51 x 130	LUG2G222MC130***	2700	0.20	98	58	11.6	77 x 105	LUG2W272ME105***	
		0.20	120	60	6.1	64 x 115	LUG2G182MD115***	3300	0.20	80	44	13.9	64 x 145	LUG2W332MD145***	
	2700	0.20	98	44	7.1	64 x 115	LUG2G272MD115***		0.20	80	46	13.6	77 x 115	LUG2W332ME115***	
	2700	0.20	98	44	7.1	77 x 100	LUG2G272ME100***	4700	0.20	56	36	17.3	77 x 145	LUG2W472ME145***	
		3300	0.20	80	40	8.4	64 x 120		LUG2G332MD120***	0.20	56	36	17.0	90 x 130	LUG2W472MF130***
	3300	0.20	80	40	8.4	77 x 115	LUG2G332ME115***	5600	0.20	47	32	20.9	77 x 170	LUG2W562ME170***	
		3900	0.20	68	36	9.7	64 x 145		LUG2G392MD145***	0.20	47	32	21.4	90 x 157	LUG2W562MF157***
	3900	0.20	68	36	9.2	77 x 130	LUG2G392ME130***	6800	0.20	39	30	22.0	77 x 200	LUG2W682ME200***	
		4700	0.20	56	26	11.7	77 x 145		LUG2G472ME145***	0.20	39	30	21.7	90 x 157	LUG2W682MF157***
	4700	0.20	56	26	10.5	90 x 130	LUG2G472MF130***	8200	0.20	32	20	24.7	77 x 240	LUG2W822ME240***	
		5600	0.20	47	24	12.9	77 x 155		LUG2G562ME155***	0.20	32	20	24.6	90 x 196	LUG2W822MF196***
	5600	0.20	47	24	12.4	90 x 130	LUG2G562MF130***	10000	0.20	26	18	27.4	90 x 240	LUG2W103MF240***	
		6800	0.20	39	22	14.7	77 x 190		LUG2G682ME190***	0.20	26	18	27.4	101 x 196	LUG2W103MG196***
	6800	0.20	39	22	14.4	90 x 130	LUG2G682MF130***	12000	0.20	22	16	31.7	90 x 236	LUG2W123MF236***	
		8200	0.20	32	20	15.5	77 x 200		LUG2G822ME200***	0.20	22	16	31.4	101 x 196	LUG2W123MG196***
	8200	0.20	32	20	15.9	90 x 157	LUG2G822MF157***	15000	0.20	17	12	33.9	101 x 236	LUG2W153MG236***	
10000		0.20	26	18	19.3	77 x 240	LUG2G103ME240***								
10000	0.20	26	18	19.2	90 x 196	LUG2G103MF196***									
	12000	0.20	22	16	21.1	101 x 196	LUG2G123MG196***								
15000	0.20	17	12	24.7	101 x 236	LUG2G153MG236***									
18000	0.20	14	10	26.3	101 x 250	LUG2G183MG250***									

\*\*\* 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.

The content recorded in the catalog book may be changed without prior notice. Please request our company to provide a specification book when purchasing or using it, and use it based on it.