

Screw Terminal Capacitor

LGH series 105°C 20000 hours



- Rohs requirements.
- 105°C for 20000 hours
- 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)	350V~450V
Capacitance(CAP/C)	1000~15000
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/tanδ(25°C, 120Hz)	≤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
	20000h	>220000h	20000h	20000h	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

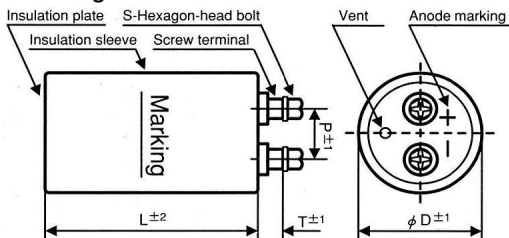
Apply rated working voltage for 60 minutes, and conduct the test after 24-hour recovery.

■ Ripple current correction factor

Temperature°C	40	55	70	85	105	Frequency	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	2.44	2.28	2.12	2.0	1.0	Coefficient	0.80	1.00	1.18	1.35	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.

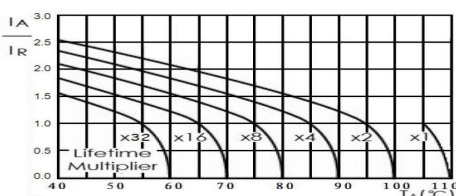
■ Drawing unit: mm



Capacitors with screw terminals series

ΦD±1	P±1	S±0.5	T±1	Cap materiall
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

■ LGH series:105°C 20000 hours screw capacitor

WV (V.DC)	CAP 25°C, 120Hz	DF 25°C, 120Hz	ESR (Max.) 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)	1000	0.20	312	109	3.1	51 x 100	LGH 2V102MC100***
	1200	0.20	260	91	3.3	51 x 100	LGH 2V122MC100***
	1500	0.20	208	72	4.1	64 x 115	LGH 2V152MD115***
	1800	0.20	173	60	4.9	64 x 115	LGH 2V182MD115***
	2200	0.20	141	49	5.6	64 x 115	LGH 2V222MD115***
	2700	0.20	115	40	6.1	64 x 130	LGH 2V272MD130***
	3300	0.20	95	33	7.3	64 x 130	LGH 2V332MD130***
	3900	0.20	80	28	8.4	77 x 115	LGH 2V392ME115***
	4700	0.20	66	23	9.7	77 x 130	LGH 2V472ME130***
	4700	0.20	66	23	9.7	77 x 155	LGH 2V472ME155***
	5600	0.20	56	19	11.2	77 x 155	LGH 2V562ME155***
	6800	0.20	46	16	13.4	90 x 130	LGH 2V682MF130***
	8200	0.20	38	13	14.9	90 x 157	LGH 2V822MF157***
	10000	0.20	32	10	17.8	90 x 170	LGH 2V103MF170***
	12000	0.20	26	9	21.5	90 x 196	LGH 2V123MF196***
15000	0.20	21	7	26.5	90 x 236	LGH 2V153MF236***	
400 2G(450)	1000	0.20	32	109	3.1	51 x 100	LGH 2G153MC100***
	1200	0.20	26	91	3.6	51 x 100	LGH 2G122MC100***
	1500	0.20	21	72	4.5	64 x 115	LGH 2G152MD115***
	1800	0.20	17	60	5.1	64 x 115	LGH 2G182MD115***
	2200	0.20	14	49	5.5	64 x 130	LGH 2G222MD130***
	2700	0.20	11	40	6.6	64 x 130	LGH 2G272MD130***
	3300	0.20	95	33	7.8	77 x 130	LGH 2G332ME130***
	3900	0.20	80	28	8.9	77 x 130	LGH 2G392ME130***
	3900	0.20	80	28	8.9	77 x 155	LGH 2G392ME155***
	4700	0.20	66	23	10.3	77 x 155	LGH 2G472ME155***
	5600	0.20	56	19	11.8	77 x 155	LGH 2G562ME155***
	5600	0.20	56	19	12.3	90 x 130	LGH 2G562MF130***
	6800	0.20	46	16	14.7	90 x 157	LGH 2G682MF157***
	8200	0.20	38	13	16.2	90 x 157	LGH 2G822MF157***
	10000	0.20	31	10	19.7	90 x 196	LGH 2G103MF196***
12000	0.20	26	9	23.5	90 x 236	LGH 2G123MF236***	
450 2W(500)	1000	0.20	312	109	3.3	51 x 100	LGH 2W102MC100***
	1200	0.20	260	91	4.0	64 x 115	LGH 2W122MD115***
	1500	0.20	208	72	4.6	64 x 115	LGH 2W152MD115***
	1800	0.20	173	60	5.5	77 x 115	LGH 2W182ME115***
	2200	0.20	141	49	6.1	77 x 115	LGH 2W222ME115***
	2700	0.20	115	40	7.0	64 x 130	LGH 2W272MD130***
	2700	0.20	115	40	7.4	77 x 130	LGH 2W272ME130***
	3300	0.20	94	33	8.6	77 x 130	LGH 2W332ME130***
	3900	0.20	80	28	9.8	77 x 155	LGH 2W392ME155***
	4700	0.20	66	23	11.2	77 x 155	LGH 2W472ME155***
	5600	0.20	55	19	13.5	77 x 195	LGH 2W562ME195***
	5600	0.20	55	19	13.5	90 x 157	LGH 2W562MF157***
	6800	0.20	45	16	16.2	90 x 196	LGH 2W682MF196***
	8200	0.20	38	13	17.8	90 x 196	LGH 2W822MF196***
	10000	0.20	31	10	21.5	90 x 236	LGH 2W103MF236***

**** 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.