

Screw Terminal Capacitor

LGF series 105°C 15000 hours



- Rohs requirements.
- 105°C for 15000 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)	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)	≤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
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

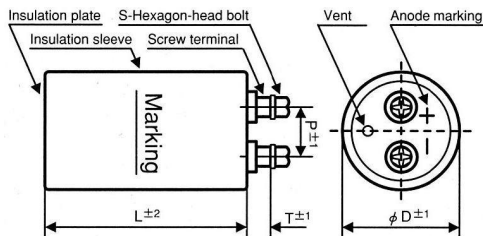
Apply rated working voltage for 60 minutes, and conduct the test after 24-hour recovery.

■ Ripple current correction factor

UR(V)	Temp °C					Freq	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
	40	55	70	85	105						
160~250	3.8	3.3	2.5	2.0	1.0	160~250	0.90	1.00	1.08	1.15	1.20
350~450	2.44	2.28	2.12	2.0	1.0	350~450	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.

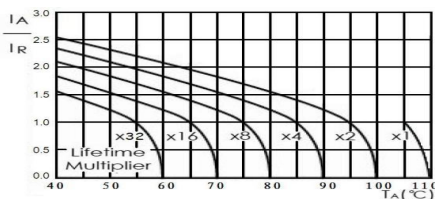
■Drawing unit: mm



Capacitors with screw terminals series

ΦD±1	P±1	S±0.5	T±1	Cap 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

■LGF series : 105°C 15000 hours long lifetime 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 ØD×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 ØD×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	0.9	36 x 50	LGF2E331MA050***	450 2W (500)	220	0.20	1206	830	1.2	36 x 50	LGF2W221MA050***
	470	0.20	564	240	1.1	36 x 50	LGF2E471MA050***		270	0.20	982	736	1.4	36 x 60	LGF2W271MA060***
	680	0.20	390	170	1.5	36 x 80	LGF2E681MA080***		330	0.20	804	554	1.6	36 x 80	LGF2W331MA080***
	1000	0.20	265	110	1.9	36 x 100	LGF2E102MA100***		470	0.20	564	390	2.1	51 x 80	LGF2W471MC080***
	1500	0.20	176	80	2.3	51 x 80	LGF2E152MC080***		560	0.20	473	342	2.4	51 x 80	LGF2W561MC080***
	3300	0.20	80	40	4.2	64 x 96	LGF2E332MD096***		680	0.20	390	270	2.7	51 x 80	LGF2W681MC080***
	4700	0.20	56	30	5.4	64 x 115	LGF2E472MD115***		820	0.20	323	224	3.6	51 x 80	LGF2W821MC080***
	6800	0.20	39	20	6.9	77 x 115	LGF2E682ME115***		1000	0.20	265	180	4.2	51 x 100	LGF2W102MC100***
	10000	0.20	26	16	9.4	77 x 155	LGF2E103ME155***		1200	0.20	221	140	4.8	51 x 105	LGF2W122MC105***
	15000	0.20	17	12	12.3	90 x 157	LGF2E153MF157***		1500	0.20	176	108	5.7	64 x 115	LGF2W152MD115***
400 2G (450)	1000	0.20	265	164	2.6	51 x 80	LGF2G102MC080***	1800	0.20	147	86	6.5	64 x 115	LGF2W182MD115***	
	1200	0.20	221	140	3.1	51 x 100	LGF2G122MC100***	2200	0.20	120	66	7.4	64 x 115	LGF2W222MD115***	
	1500	0.20	176	98	3.6	51 x 100	LGF2G152MC100***	2700	0.20	120	66	7.3	77 x 96	LGF2W222ME096***	
	1800	0.20	147	78	4.1	51 x 100	LGF2G182MC100***	2700	0.20	98	56	8.8	64 x 130	LGF2W272MD130***	
	2200	0.20	120	60	4.5	64 x 96	LGF2G222MD096***	2700	0.20	98	58	8.6	77 x 105	LGF2W272ME105***	
	2200	0.20	120	60	4.5	64 x 115	LGF2G182MD115***	3300	0.20	80	44	10.3	64 x 145	LGF2W332MD145***	
	2700	0.20	98	44	5.3	64 x 115	LGF2G272MD115***	3300	0.20	80	46	10.1	77 x 115	LGF2W332ME115***	
	2700	0.20	98	44	5.3	77 x 105	LGF2G272ME105***	4700	0.20	56	36	12.8	77 x 155	LGF2W472ME155***	
	3300	0.20	80	40	6.2	64 x 130	LGF2G332MD130***	4700	0.20	56	36	12.6	90 x 130	LGF2W472MF130***	
	3300	0.20	80	40	6.2	77 x 105	LGF2G332ME105***	5600	0.20	47	32	15.5	77 x 170	LGF2W562ME170***	
	3900	0.20	68	36	7.2	64 x 145	LGF2G392MD145***	5600	0.20	47	32	15.9	90 x 157	LGF2W562MF157***	
	3900	0.20	68	36	6.8	77 x 115	LGF2G392ME115***	6800	0.20	39	30	16.3	77 x 195	LGF2W682ME195***	
	4700	0.20	56	26	8.7	77 x 145	LGF2G472ME145***	6800	0.20	39	30	16.1	90 x 157	LGF2W682MF157***	
	4700	0.20	56	26	7.8	90 x 130	LGF2G472MF130***	8200	0.20	32	20	18.3	77 x 220	LGF2W822ME220***	
	5600	0.20	47	24	9.6	77 x 155	LGF2G562ME155***	8200	0.20	32	20	18.2	90 x 196	LGF2W822MF196***	
	5600	0.20	47	24	9.2	90 x 130	LGF2G562MF130***	10000	0.20	26	18	20.3	90 x 196	LGF2W103MF196***	
	6800	0.20	39	22	10.9	77 x 190	LGF2G682ME190***	10000	0.20	26	18	20.1	101 x 157	LGF2W103MG157***	
	6800	0.20	39	22	10.7	90 x 130	LGF2G682MF130***	12000	0.20	22	16	23.5	90 x 236	LGF2W123MF236***	
	8200	0.20	32	20	11.1	77 x 200	LGF2G822ME200***	12000	0.20	22	16	23.3	101 x 196	LGF2W123MG196***	
	8200	0.20	32	20	11.8	90 x 157	LGF2G822MF157***	15000	0.20	17	12	25.3	90 x 250	LGF2W153MF250***	
10000	0.20	26	18	14.3	77 x 240	LGF2G103ME240***	15000	0.20	20	10	25.1	101 x 236	LGF2W153MG236***		
10000	0.20	26	18	14.2	90 x 196	LGF2G103MF196***									
12000	0.20	22	16	15.6	101 x 196	LGF2G123MG196***									
15000	0.20	17	12	18.3	101 x 236	LGF2G153MG236***									
18000	0.20	14	10	19.5	101 x 250	LGF2G183MG250***									

*** 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.