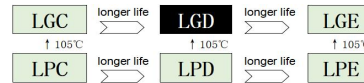


Screw terminal capacitor



LGD Series 105°C 10000 hours

- Rohs requirements.
- 105°C 10000 hours series.
- Used in switching power supply, inverters, rectifiers, energy storage and other industrial products



Product description

Item	Characteristic						
	-40°C~+105°C			-25°C~+105°C			
Operating temperature range	-40°C~+105°C			-25°C~+105°C			
Rated voltage(WV/V)	25V~450V			460V~500V			
Capacitance(CAP/C)	220~470000						
Tolerance(CAP/C)	±20% (25°C, 120Hz)						
Leakage current LC/I(25°C, 120Hz)	LC≤0.01CV(μA) or 1.5mA, 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)	25~35	50	63	80~100	160~200	250~500
	DF	Check specifications				0.25	0.2
Temperature characteristics(Capacitanceratio 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
	10000h	>220000h	10000h	10000h	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	105°C	40°C	105°C	105°C	105°C

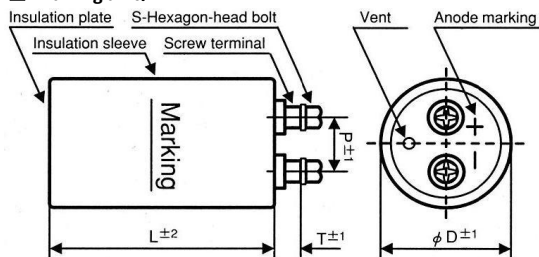
Apply rated working voltage for 60 minutes, and conduct the test after 24-hour recovery.

Ripple current correction factor

UR(V)	Temp					UR(V)	Freq				
	40	55	70	85	105		50/60Hz	120Hz	300KHz	1KHz	≥10KHz
25~100	4.9	3.9	3.0	1.8	1.0	25~100	0.95	1.00	1.04	1.10	1.15
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.

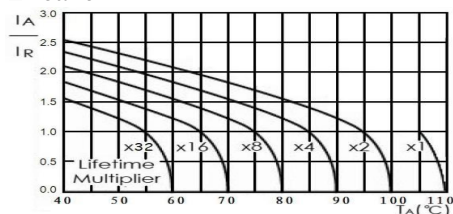
Drawing unit: mm



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

■ LGD series:105°C 10000 hours 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)	-
25 1E (32)	10000	0.35	50	25	2.9	36 x 50	LG1E103MA050***	80 1K (100)	2200	0.20	114	57	2.2	36 x 50	LG1K222MA050***
	15000	0.35	40	20	4.2	36 x 80	LG1E153MA080***		3300	0.20	76	38	3.1	36 x 80	LG1K332MA080***
	22000	0.40	26	13	5.1	36 x 80	LG1E223MA080***		4700	0.20	54	27	3.6	36 x 80	LG1K472MA080***
	33000	0.40	24	12	6.3	36 x 100	LG1E333MA100***		6800	0.20	38	19	4.0	36 x 100	LG1K682MA100***
	47000	0.40	22	11	2.4	51 x 80	LG1E473MC080***		15000	0.25	22	11	6.2	51 x 100	LG1K153MC100***
	68000	0.50	20	10	10.0	51 x 115	LG1E683MC115***		22000	0.25	16	8	8.2	64 x 96	LG1K223MD096***
	100000	0.60	18	9	11.3	64 x 90	LG1E104MD090***		33000	0.30	14	7	9.7	77 x 105	LG1K333ME105***
	150000	0.80	16	8	12.9	64 x 115	LG1E154MD115***		47000	0.30	12	6	12.5	77 x 115	LG1K473ME115***
	220000	1.00	14	7	14.8	77 x 115	LG1E224ME115***		68000	0.30	10	5	16.5	90 x 130	LG1K683MF130***
	330000	1.00	12	6	19.9	90 x 130	LG1E334MF130***		100 2A (125)	1000	0.20	130	65	1.4	36 x 50
470000	1.00	10	5	27.8	90 x 170	LG1E474MF170***	1500	0.20		110	55	1.7	36 x 50	LG2A152MA050***	
35 1V (44)	6800	0.30	50	25	2.6	36 x 50	LG1V682MA050***	2200		0.20	76	38	2.6	36 x 80	LG2A222MA080***
	10000	0.30	40	20	3.7	36 x 80	LG1V103MA080***	3300		0.20	50	25	3.0	36 x 80	LG2A332MA080***
	15000	0.30	26	13	4.5	36 x 80	LG1V153MA080***	4700		0.20	42	21	3.9	36 x 100	LG2A472MA100***
	22000	0.35	20	10	5.5	36 x 100	LG1V223MA100***	6800		0.20	38	19	5.0	51 x 80	LG2A682MC080***
	47000	0.45	18	9	8.1	51 x 100	LG1V473MC100***	10000		0.20	26	13	6.5	51 x 100	LG2A103MC100***
	68000	0.50	16	8	10.0	51 x 100	LG1V683MC100***	15000		0.20	18	9	7.6	64 x 96	LG2A153MD096***
	100000	0.60	14	7	12.1	64 x 115	LG1V104MD115***	22000		0.20	14	7	9.7	77 x 105	LG2A223ME105***
	150000	0.70	12	6	13.8	77 x 115	LG1V154ME115***	33000		0.25	12	6	11.8	77 x 130	LG2A333ME130***
	220000	0.70	10	5	17.7	90 x 130	LG1V224MF130***	47000	0.25	10	5	15.1	90 x 130	LG2A473MF130***	
	330000	0.70	8	4	21.5	90 x 157	LG1V334MF157***	56000	0.25	8	4	18.2	90 x 157	LG2A563MF157***	
50 1H (63)	3300	0.25	100	50	2.3	36 x 50	LG1H332MA050***	160 2C (200)	470	0.20	530	265	1.1	36 x 50	LG2C471MA050***
	4700	0.25	72	36	3.3	36 x 50	LG1H472MA050***		680	0.20	372	186	1.2	36 x 50	LG2C681MA050***
	6800	0.25	64	32	3.4	36 x 80	LG1H682MA080***		1000	0.20	250	125	1.7	36 x 80	LG2C102MA080***
	10000	0.25	44	22	4.1	36 x 80	LG1H103MA080***		1500	0.20	170	85	2.0	36 x 80	LG2C152MA080***
	15000	0.30	28	14	4.9	36 x 100	LG1H153MA100***		2200	0.20	110	55	2.7	36 x 100	LG2C222MA100***
	22000	0.35	20	10	5.9	51 x 80	LG1H223MC080***		3300	0.20	76	38	3.5	51 x 80	LG2C332MC080***
	33000	0.40	14	7	7.8	51 x 100	LG1H333MC100***		4700	0.20	70	35	4.4	51 x 100	LG2C472MC100***
	47000	0.40	12	6	9.5	64 x 90	LG1H473MD090***		6800	0.20	50	25	5.9	64 x 96	LG2C682MD096***
	68000	0.45	12	6	9.5	64 x 115	LG1H683MD115***		10000	0.20	30	15	7.7	77 x 105	LG2C103ME105***
	100000	0.50	10	5	11.7	77 x 115	LG1H104ME115***		15000	0.20	22	11	10.3	77 x 130	LG2C153ME130***
150000	0.50	6	3	19.1	90 x 130	LG1H154MF130***	22000	0.20	12	6	13.3	90 x 130	LG2C223MF130***		
63 1J (79)	6800	0.20	50	25	3.8	36 x 80	LG1J682MA080***	200 2D (250)	330	0.20	750	375	0.9	36 x 50	LG2D331MA050***
	10000	0.25	40	20	4.5	36 x 100	LG1J103MA100***		470	0.20	524	262	1.1	36 x 50	LG2D471MA050***
	15000	0.25	28	14	5.8	51 x 80	LG1J153MC080***		680	0.20	360	180	1.2	36 x 50	LG2D681MA050***
	22000	0.30	20	10	6.8	51 x 100	LG1J223MC100***		1000	0.20	250	125	1.7	36 x 80	LG2D102MA080***
	33000	0.30	14	7	9.2	64 x 96	LG1J333MD096***		1500	0.20	150	75	2.2	36 x 100	LG2D152MA100***
	47000	0.35	12	6	10.9	64 x 115	LG1J473MD115***		2200	0.20	100	50	2.8	51 x 80	LG2D222MC080***
	68000	0.40	10	5	13.0	77 x 115	LG1J683ME115***		3300	0.20	72	36	3.7	51 x 100	LG2D332MC100***
	100000	0.40	8	4	17.3	90 x 130	LG1J104MF130***		4700	0.20	48	24	4.9	64 x 96	LG2D472MD096***
	120000	0.40	7	4	19.8	90 x 157	LG1J124MF157***		6800	0.20	32	16	6.3	64 x 115	LG2D682MD115***
	150000	0.40	7	4	23.6	90 x 190	LG1J154MF190***		10000	0.20	24	12	8.2	77 x 115	LG2D103ME115***
180000	0.40	7	4	26.1	90 x 220	LG1J184MF220***	15000	0.20	20	8	11.1	90 x 130	LG2D153MF130***		

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	320	160	0.9	36 x 50	LG2E331MA050***	450 2W (500)	220	0.20	830	415	1.2	36 x 50	LG2W221MA050***	
	470	0.20	240	120	1.1	36 x 50	LG2E471MA050***		270	0.20	736	368	1.4	36 x 60	LG2W271MA060***	
	680	0.20	170	85	1.5	36 x 80	LG2E681MA080***		330	0.20	554	277	1.6	36 x 80	LG2W331MA080***	
	1000	0.20	110	55	1.9	36 x 100	LG2E102MA100***		470	0.20	390	195	2.1	51 x 80	LG2W471MC080***	
	1500	0.20	80	40	2.3	51 x 80	LG2E152MC080***		560	0.20	342	171	2.4	51 x 80	LG2W561MC080***	
	3300	0.20	40	20	4.2	64 x 96	LG2E332MD096***		680	0.20	270	135	2.7	51 x 80	LG2W681MC080***	
	4700	0.20	30	15	5.4	64 x 115	LG2E472MD115***		820	0.20	224	112	3.6	51 x 80	LG2W821MC080***	
	6800	0.20	20	10	6.9	64 x 115	LG2E682MD115***		1000	0.20	180	90	4.2	51 x 100	LG2W102MC100***	
	10000	0.20	16	8	9.4	77 x 155	LG2E103ME155***		1200	0.20	140	70	4.8	51 x 100	LG2W122MC100***	
	15000	0.20	12	6	12.3	90 x 157	LG2E153MF157***		1500	0.20	108	54	5.7	51 x 100	LG2W152MC100***	
400 2G (450)	1000	0.20	164	82	2.6	51 x 80	LG2G102MC080***	1800	0.20	86	43	6.5	51 x 100	LG2W182MC100***		
	1200	0.20	140	70	3.1	51 x 100	LG2G122MC100***	2200	0.20	66	33	7.4	64 x 96	LG2W222MD096***		
	1500	0.20	98	49	3.6	51 x 100	LG2G152MC100***		0.20	66	33	7.3	64 x 120	LG2W222MD120***		
	1800	0.20	78	39	4.1	51 x 100	LG2G182MC100***	2700	0.20	56	28	8.8	64 x 130	LG2W272MD130***		
	2200	0.20	60	30	4.5	51 x 100	LG2G222MC100***		0.20	58	29	8.6	77 x 105	LG2W272ME105***		
		0.20	60	30	4.5	64 x 96	LG2G182MD096***	3300	0.20	44	22	10.3	64 x 145	LG2W332MD145***		
	2700	0.20	44	22	5.3	64 x 115	LG2G272MD115***		0.20	46	23	10.1	77 x 115	LG2W332ME115***		
		0.20	44	22	5.3	64 x 115	LG2G272MD115***	4700	0.20	36	18	12.8	77 x 145	LG2W472ME145***		
	3300	0.20	40	20	6.2	64 x 130	LG2G332MD130***		0.20	38	19	12.6	77 x 155	LG2W472ME155***		
		0.20	40	20	6.2	77 x 105	LG2G332ME105***	5600	0.20	32	16	15.5	77 x 170	LG2W562ME170***		
	3900	0.20	36	18	7.2	64 x 145	LG2G392MD145***		0.20	34	17	15.9	90 x 157	LG2W562MF157***		
		0.20	36	18	6.8	77 x 115	LG2G392ME115***	6800	0.20	30	15	16.3	77 x 195	LG2W682ME195***		
	4700	0.20	26	13	8.7	77 x 130	LG2G472ME130***		0.20	32	16	16.1	90 x 157	LG2W682MF157***		
		0.20	26	13	7.8	77 x 145	LG2G472ME145***	8200	0.20	26	13	18.3	77 x 220	LG2W822ME220***		
	5600	0.20	24	12	9.6	77 x 145	LG2G562ME145***		0.20	28	14	18.2	90 x 196	LG2W822MF196***		
		0.20	24	12	9.2	77 x 155	LG2G562ME155***	10000	0.20	22	11	20.3	77 x 236	LG2W103ME236***		
	6800	0.20	22	11	10.9	77 x 155	LG2G682ME155***		0.20	24	12	20.1	90 x 220	LG2W103MF220***		
		0.20	22	11	10.7	90 x 130	LG2G682MF130***	12000	0.20	20	10	23.5	90 x 236	LG2W123MF236***		
	8200	0.20	20	10	11.1	77 x 180	LG2G822ME180***		0.20	22	11	23.3	101 x 196	LG2W123MG196***		
		0.20	20	10	11.8	90 x 157	LG2G822MF157***	15000	0.20	18	9	25.3	90 x 250	LG2W153MF250***		
	10000	0.20	18	9	14.3	77 x 220	LG2G103ME220***		0.20	20	10	25.1	101 x 236	LG2W153MG236***		
		0.20	18	9	14.2	90 x 157	LG2G103MF157***									
	12000	0.20	16	8	15.8	90 x 196	LG2G123MF196***									
		0.20	16	8	15.6	101 x 155	LG2G123MG155***									
	15000	0.20	14	7	18.5	90 x 236	LG2G153MF236***									
		0.20	14	7	18.3	101 x 196	LG2G153MG196***									
	18000	0.20	12	6	21.1	90 x 250	LG2G183MF250***									
		0.20	12	6	19.5	101 x 236	LG2G183MG236***									

**** Indicates terminal type, length, and sleeve color.

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 notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.