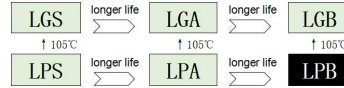


Screw terminal capacitor



LPB Series (85°C for 5000 hours)



- Rohs requirements.
- 85°C 5000 hours series.

• Used for switching power supply, frequency converter, air conditioning, filter circuit, laser spot welding machine, printed circuit board and other general industrial products.

Product description

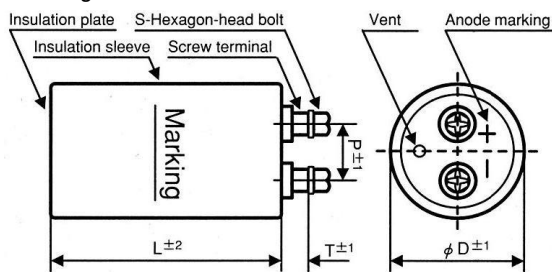
Item	Characteristic	
Operating temperature range	-40°C~+85°C	-25°C~+85°C
Rated voltage(WV/V)	400V~450V	500V
Capacitance(CAP/C)	1500~12000	
Tolerance(CAP/C)	±20% (25°C, 120Hz)	
Leakage current LC/I(25°C, 120Hz)	LC≤0.01CV(μA) or 5mA, take the smaller value (25°C, 5minutes) C=Nominal capacitance(μF), V=Working voltage(V)	
Dissipation factor DF/tanδ(25°C, 120Hz)	≤0.2	
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40°C/C(+25°C)≥0.6(400V~450V)	
	C(-25°C/C(+25°C)≥0.7(460V~500V)	
Implementation standards	JIS C 5101-4	

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	10000h	>100000h	5000h	5000h	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	Apply rated working voltage for 60 minutes, and conduct the test after 24-hour recovery.
Applied current	IR	1.2×IR	IR	IR=0	IR=0	
Application temperature	85°C	40°C	85°C	85°C	85°C	

Ripple current correction factor

Temp°C	UR(V)				Freq	UR(V)				
	40	60	70	85		50/60Hz	120Hz	300KHz	1KHz	≥10KHz
25~500	1.89	1.67	1.5	1.0	400~550	0.80	1.00	1.10	1.30	1.40

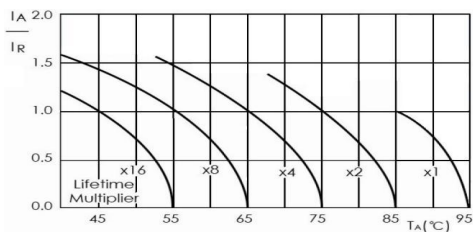
Drawing unit: mm



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

■ LPB series: 85°C 5000 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, 120Hz	Size ΦD×L (mm)	Code P/N
(V.DC)	(μF)	(%)	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G(450)	2700	0.2	74.0	36	10	64 x 105	LPB2G272MD105***
	3300	0.2	65.0	21	11	64 x 115	LPB2G332MD115***
	3900	0.2	50.0	19	12.8	64 x 130	LPB2G392MD130***
	3900	0.2	50.0	24	13.5	77 x 115	LPB2G392MD115***
	4700	0.2	40.0	19	14.8	64 x 130	LPB2G472MD130***
	4700	0.2	40.0	19	14.8	77 x 115	LPB2G472MD115***
	5600	0.2	34.0	16	16.2	77 x 130	LPB2G562MD130***
	5600	0.2	34.0	16	16.2	90 x 130	LPB2G562MF130***
	6800	0.2	28.0	13	18.7	77 x 155	LPB2G682MD155***
	6800	0.2	28.0	13	18.7	90 x 130	LPB2G682MF130***
	8200	0.2	22.0	10	22	77 x 155	LPB2G822MD155***
	10000	0.2	18.0	8	24.2	90 x 130	LPB2G103MF130***
12000	0.2	22.0	10	28.5	90 x 157	LPB2G123MF157***	
450 2W(500)	2200	0.2	90.0	44	10.4	64 x 96	LPB2W222MD096***
	2200	0.2	90.0	44	11.5	77 x 96	LPB2W222MD096***
	2700	0.2	74.0	36	12.8	64 x 130	LPB2W272MD130***
	3300	0.2	58.0	28	15.2	64 x 155	LPB2W332MD155***
	3300	0.2	58.0	28	15.2	77 x 130	LPB2W332MD130***
	3900	0.2	52.0	25	15.8	64 x 145	LPB2W392MD145***
	3900	0.2	52.0	25	16.5	77 x 130	LPB2W392MD130***
	4700	0.2	40.0	19	18	77 x 145	LPB2W472MD145***
	4700	0.2	40.0	19	20.8	90 x 130	LPB2W472MF130***
	5600	0.2	34.0	16	21.8	77 x 160	LPB2W562MD160***
	5600	0.2	34.0	16	24.2	90 x 140	LPB2W562MF140***
	6800	0.2	28.0	13	24.9	90 x 157	LPB2W682MF157***
8200	0.2	22.0	10	32.2	90 x 157	LPB2W822MF157***	
10000	0.2	18.0	8	36.9	90 x 170	LPB2W103MF170***	
500 2H(550)	1500	0.2	146.0	72	8.6	64 x 115	LPB2H152MD115***
	1800	0.2	130.0	60	10	64 x 130	LPB2H182MD130***
	2200	0.2	100.0	49	11.7	64 x 145	LPB2H222MD145***
	2700	0.2	80.0	39	15	77 x 115	LPB2H272MD115***
	3300	0.2	66.0	32	17.5	77 x 145	LPB2H332MD145***
	3900	0.2	56.0	27	20.2	77 x 155	LPB2H392MD155***
	4700	0.2	46.0	22	21.8	90 x 145	LPB2H472MF145***
	5600	0.2	38.0	18	25.3	90 x 157	LPB2H562MF157***
	6800	0.2	30.0	14	29	90 x 170	LPB2H682MF170***

**** 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.

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