THE DATASHEET OF

LGJ2G221MELC20

ALUMINUM ELECTROLYTIC CAPACITORS

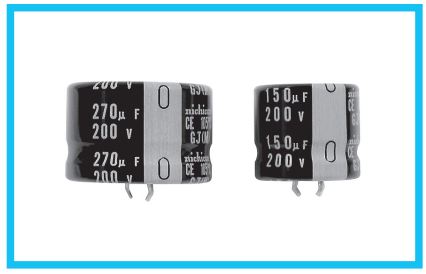
nichicon

LGJ

Snap-in Terminal Type, 105°C Low-Profile Sized

Smaller

LGU
Low Profile
LGJ
Low Profile
LGJ(15)

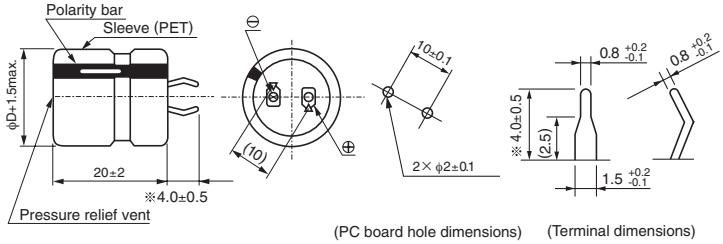


- Withstanding 3000 hours application of rated ripple current at 105°C.
- Ideally suited for flat design fo switching power supply.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).

■Specifications

Item	Performance Characteristics
Category Temperature Range	– 40 to +105°C (200 ・ 250V) , – 25 to +105°C (400 ・ 450V)
Rated Voltage Range	200 to 450V
Rated Capacitance Range	47 to 680μF
Capacitance Tolerance	±20% at 120Hz, 20°C
Leakage Current	$I \leqq 3\sqrt{CV}$ (μA) (After 5 minutes' application of rated voltage at 20°C) [C : Rated Capacitance (μF) V : Voltage (V)]
Tangent of loss angle (tan δ)	Rated voltage (V): 200 to 400 / 450; tan δ (max.): 0.15 / 0.20. Measurement frequency : 120Hz at 20°C
Stability at Low Temperature	Measurement frequency : 120Hz. Rated voltage (V): 200・250 / 400・450. Impedance ratio (max.) Z(–25°C) / Z(+20°C): 3 / 8; Z(–40°C) / Z(+20°C): 12 / —
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after D.C. bias plus rated ripple current is applied for 3000 hours at 105°C, the peak voltage shall not exceed the rated voltage. Capacitance change: Within ±20% of the initial capacitance value; tan δ: 200% or less than the initial specified value; Leakage current: Less than or equal to the initial specified value
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the requirements listed at right. Capacitance change: Within ±15% of the initial capacitance value; tan δ: 150% or less than the initial specified value; Leakage current: Less than or equal to the initial specified value
Marking	Printed with white color letter on black sleeve.

■Drawing



(PC board hole dimensions) (Terminal dimensions)

Type numbering system (Example : 400V 120μF)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	G	J	2	G	1	2	1	M	E	L	B	2	0

Size code
Case dia. code
Configuration
Capacitance tolerance (±20%)
Rated capacitance (120μF)
Rated voltage (400V)
Series name
Type

φD	Code
20	Y
22	Z
25	A
30	B
35	C

※ Other terminations available upon request.
Please refer to the Guidelines for Aluminum Electrolytic Capacitors.

● Frequency coefficient of rated ripple current

Frequency (Hz)		50	60	120	300	1 k	10k	50k or more
Coeff.	200 to 250V	0.81	0.85	1.00	1.17	1.32	1.45	1.50
	400 to 450V	0.77	0.82	1.00	1.16	1.30	1.41	1.43

● Dimension table in next page.

LGJ

■Dimensions

200V(2D)				
Cap. (μF)	Size φD x L(mm)	Rated ripple (mArms)	Leakage Current (mA)	Code
180	20 × 20	680	0.56	LGJ2D181MELY20
220	22 × 20	760	0.62	LGJ2D221MELZ20
270	22 × 20	780	0.69	LGJ2D271MELZ20
330	25 × 20	960	0.77	LGJ2D331MELA20
390	30 × 20	1080	0.83	LGJ2D391MELB20
470	30 × 20	1120	0.91	LGJ2D471MELB20
560	35 × 20	1440	1.00	LGJ2D561MELC20
680	35 × 20	1520	1.10	LGJ2D681MELC20

250V(2E)				
Cap. (μF)	Size φD x L(mm)	Rated ripple (mArms)	Leakage Current (mA)	Code
150	20 × 20	660	0.58	LGJ2E151MELY20
180	22 × 20	750	0.63	LGJ2E181MELZ20
220	25 × 20	920	0.70	LGJ2E221MELA20
270	30 × 20	1040	0.77	LGJ2E271MELB20
330	30 × 20	1080	0.86	LGJ2E331MELB20
390	35 × 20	1410	0.93	LGJ2E391MELC20
470	35 × 20	1470	1.02	LGJ2E471MELC20

400V(2G)				
Cap. (μF)	Size φD x L(mm)	Rated ripple (mArms)	Leakage Current (mA)	Code
56	20 × 20	550	0.44	LGJ2G560MELY20
68	22 × 20	620	0.49	LGJ2G680MELZ20
82	25 × 20	700	0.54	LGJ2G820MELA20
100	25 × 20	760	0.60	LGJ2G101MELA20
120	30 × 20	860	0.65	LGJ2G121MELB20
150	30 × 20	900	0.73	LGJ2G151MELB20
180	35 × 20	1160	0.80	LGJ2G181MELC20
220	35 × 20	1210	0.88	LGJ2G221MELC20

450V(2W)				
Cap. (μF)	Size φD x L(mm)	Rated ripple (mArms)	Leakage Current (mA)	Code
47	20 × 20	520	0.43	LGJ2W470MELY20
56	22 × 20	600	0.47	LGJ2W560MELZ20
68	25 × 20	670	0.52	LGJ2W680MELA20
82	25 × 20	740	0.57	LGJ2W820MELA20
100	30 × 20	830	0.63	LGJ2W101MELB20
120	30 × 20	870	0.69	LGJ2W121MELB20
150	35 × 20	1170	0.77	LGJ2W151MELC20

Rated ripple current (mArms) at 105°C 120Hz

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