nichicon

LGJ(15)

Snap-in Terminal Type, 105°C Low-Profile Sized (15mmL)

Smaller

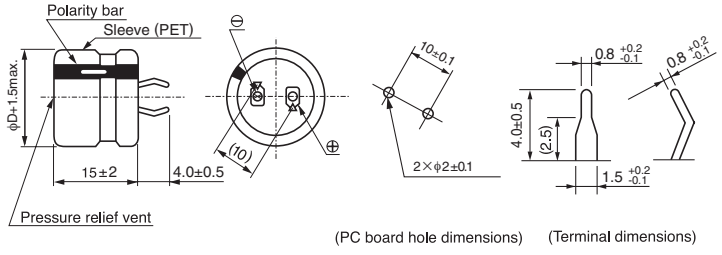
- Withstanding 2000 hours application of rated ripple current at 105°C.
- Smaller than low-profile LGJ.
- Ideally suited for flat design of switching power supply.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).

LGJ → Low Profile → LGJ(15)

■Specifications

Item	Performance Characteristics
Category Temperature Range	– 40 to +105°C (160 to 250V) , – 25 to +105°C (315 • 400V)
Rated Voltage Range	160 to 400V
Rated Capacitance Range	39 to 390μF
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)	0.20 max. 120Hz at 20°C
Stability at Low Temperature	Measurement frequency : 120Hz Rated voltage (V): 160 to 250 / 315 • 400 Impedance ratio (max.) Z(–25°C) / Z(+20°C): 3 / 8 Impedance ratio (max.) 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 2000 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



Type numbering system (Example : 200V 330μF)

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

- 13 14: Case length code
- 12: Case dia. code
- 11: Configuration
- 10: Capacitance tolerance (±20%)
- 6 7 8: Rated capacitance (330μF)
- 4 5: Rated voltage (200V)
- 2 3: Series name
- 1: Type

φD	Code
20	Y
22	Z
25	A
30	B
35	C

● Frequency coefficient of rated ripple current

Frequency (Hz)		50	60	120	300	1 k	10k	50k or more
Coeff.	160 to 250V	0.81	0.85	1.00	1.17	1.32	1.45	1.50
	315 · 400V	0.77	0.82	1.00	1.16	1.30	1.41	1.43

● Dimension table in next page.

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■Dimensions

160V(2C)				
Cap. (μF)	Size φD x L(mm)	Rated ripple (mArms)	Leakage Current (mA)	Code
150	20 × 15	550	0.46	LGJ2C151MELY15
180	22 × 15	650	0.50	LGJ2C181MELZ15
220	25 × 15	800	0.56	LGJ2C221MELA15
270	30 × 15	950	0.62	LGJ2C271MELB15
330	30 × 15	1000	0.68	LGJ2C331MELB15
390	35 × 15	1200	0.74	LGJ2C391MELC15

180V(2Z)				
Cap. (μF)	Size φD x L(mm)	Rated ripple (mArms)	Leakage Current (mA)	Code
120	20 × 15	500	0.44	LGJ2Z121MELY15
150	22 × 15	600	0.49	LGJ2Z151MELZ15
180	25 × 15	750	0.54	LGJ2Z181MELA15
220	30 × 15	850	0.59	LGJ2Z221MELB15
270	30 × 15	1000	0.66	LGJ2Z271MELB15
330	35 × 15	1100	0.73	LGJ2Z331MELC15
390	35 × 15	1200	0.79	LGJ2Z391MELC15

200V(2D)				
Cap. (μF)	Size φD x L(mm)	Rated ripple (mArms)	Leakage Current (mA)	Code
100	20 × 15	450	0.42	LGJ2D101MELY15
120	22 × 15	550	0.46	LGJ2D121MELZ15
150	25 × 15	650	0.51	LGJ2D151MELA15
180	25 × 15	750	0.56	LGJ2D181MELA15
220	30 × 15	900	0.62	LGJ2D221MELB15
270	30 × 15	1000	0.69	LGJ2D271MELB15
330	35 × 15	1100	0.77	LGJ2D331MELC15

250V(2E)				
Cap. (μF)	Size φD x L(mm)	Rated ripple (mArms)	Leakage Current (mA)	Code
100	22 × 15	500	0.47	LGJ2E101MELZ15
120	25 × 15	600	0.51	LGJ2E121MELA15
150	30 × 15	700	0.58	LGJ2E151MELB15
180	30 × 15	750	0.63	LGJ2E181MELB15
220	35 × 15	900	0.70	LGJ2E221MELC15
270	35 × 15	1000	0.77	LGJ2E271MELC15

315V(2F)				
Cap. (μF)	Size φD x L(mm)	Rated ripple (mArms)	Leakage Current (mA)	Code
56	22 × 15	350	0.39	LGJ2F560MELZ15
68	25 × 15	400	0.43	LGJ2F680MELA15
82	30 × 15	450	0.48	LGJ2F820MELB15
100	30 × 15	500	0.53	LGJ2F101MELB15
120	35 × 15	550	0.58	LGJ2F121MELC15
150	35 × 15	600	0.65	LGJ2F151MELC15

400V(2G)				
Cap. (μF)	Size φD x L(mm)	Rated ripple (mArms)	Leakage Current (mA)	Code
39	22 × 15	300	0.37	LGJ2G390MELZ15
47	25 × 15	350	0.41	LGJ2G470MELA15
56	30 × 15	400	0.44	LGJ2G560MELB15
68	30 × 15	450	0.49	LGJ2G680MELB15
82	35 × 15	500	0.54	LGJ2G820MELC15
100	35 × 15	550	0.60	LGJ2G101MELC15

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