

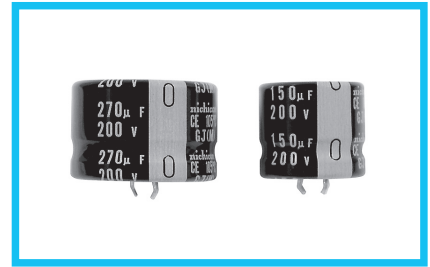
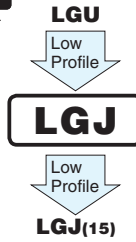


**THE DATASHEET OF  
LGJ2W121MELB20**



# ALUMINUM ELECTROLYTIC CAPACITORS

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

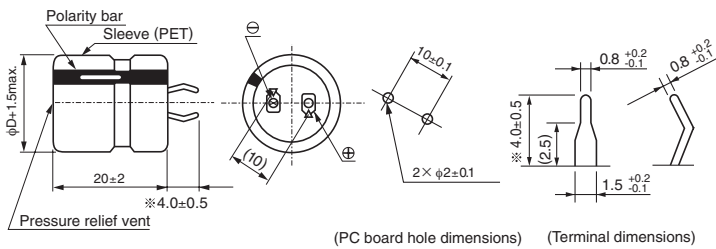


- Withstanding 3000 hours application of rated ripple current at 105°C.
- Ideally suited for flat design for switching power supply.
- Compliant to the RoHS directive (2011/65/EU, (EU)2015/863).

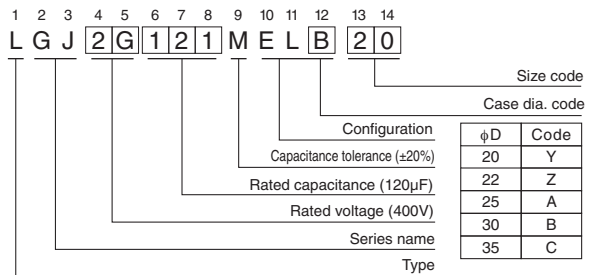
### Specifications

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	$I \leq 3\sqrt{CV}$ (µA) (After 5 minutes' application of rated voltage at 20°C) [C : Rated Capacitance (µF) V : Voltage (V)]												
Tangent of loss angle (tan δ)	<table border="1"> <tr> <th>Rated voltage (V)</th> <th>200 to 400</th> <th>450</th> </tr> <tr> <td>tan δ (max.)</td> <td>0.15</td> <td>0.20</td> </tr> </table>	Rated voltage (V)	200 to 400	450	tan δ (max.)	0.15	0.20	Measurement frequency : 120Hz at 20°C					
Rated voltage (V)	200 to 400	450											
tan δ (max.)	0.15	0.20											
Stability at Low Temperature	<table border="1"> <tr> <th colspan="2">Rated voltage (V)</th> <th>200 • 250</th> <th>400 • 450</th> </tr> <tr> <td rowspan="2">Impedance ratio (max.)</td> <td>Z(-25°C) / Z(+20°C)</td> <td>3</td> <td>8</td> </tr> <tr> <td>Z(-40°C) / Z(+20°C)</td> <td>12</td> <td>—</td> </tr> </table>	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	—	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.	<table border="1"> <tr> <td>Capacitance change</td> <td>Within ±20% of the initial capacitance value</td> </tr> <tr> <td>tan δ</td> <td>200% or less than the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Less than or equal to the initial specified value</td> </tr> </table>	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					
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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.	<table border="1"> <tr> <td>Capacitance change</td> <td>Within ±15% of the initial capacitance value</td> </tr> <tr> <td>tan δ</td> <td>150% or less than the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Less than or equal to the initial specified value</td> </tr> </table>	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					
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 : 400V 120µF)



※ 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
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.



## ■ Dimensions

200V(2D)				
Cap. (μF)	Size φD × 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 × 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 × 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 × 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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