

LGJ2D331MELB Datasheet



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DiGi Electronics Part Number	LGJ2D331MELB-DG
Manufacturer	Nichicon
Manufacturer Product Number	LGJ2D331MELB
Description	CAP ALUM 330UF 20% 200V SNAP
Detailed Description	330 μ F 200 V Aluminum Electrolytic Capacitors Radial, Can - Snap-In 3000 Hrs @ 105°C

This model LGJ2D331MELB is available at DiGi Electronics.

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Purchase and inquiry

Manufacturer Product Number:

LGJ2D331MELB

Series:

LGJ

Capacitance:

330 μ F

Voltage - Rated:

200 V

Lifetime @ Temp.:

3000 Hrs @ 105°C

Polarization:

Polar

Applications:

General Purpose

Ripple Current @ High Frequency:

1.65 A @ 50 kHz

Size / Dimension:

1.181" Dia (30.00mm)

Surface Mount Land Size:

-

Package / Case:

Radial, Can - Snap-In

Manufacturer:

Nichicon

Product Status:

Active

Tolerance:

\pm 20%

ESR (Equivalent Series Resistance):

-

Operating Temperature:

-40°C ~ 105°C

Ratings:

-

Ripple Current @ Low Frequency:

1.1 A @ 120 Hz

Lead Spacing:

0.394" (10.00mm)

Height - Seated (Max):

0.866" (22.00mm)

Mounting Type:

Through Hole

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8532.22.0040

Moisture Sensitivity Level (MSL):

Not Applicable

ECCN:

EAR99

ALUMINUM ELECTROLYTIC CAPACITORS

LGJ

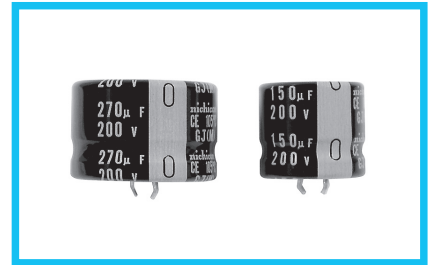
Snap-in Terminal Type, 105°C Low-Profile Sized



LGU
↓
Low Profile

LGJ

↓
Low Profile
LGJ(15)

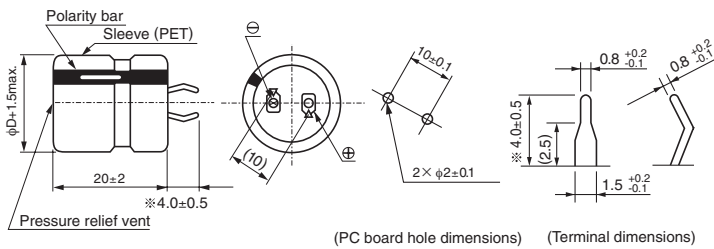


- Withstanding 3000 hours application of rated ripple current at 105°C.
- Ideally suited for flat design fo switching power supply.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).

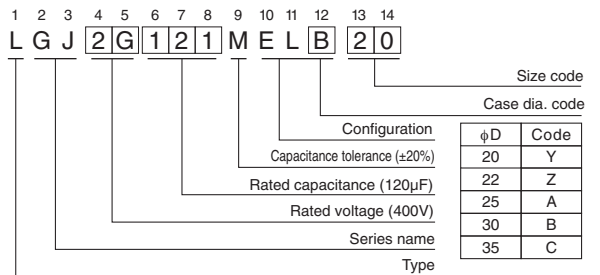
Specifications

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	$I \leq 3\sqrt{CV}$ (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 rowspan="2">Impedance ratio (max.)</th> <th colspan="2">Rated voltage (V)</th> </tr> <tr> <th>200 · 250</th> <th>400 · 450</th> </tr> <tr> <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>	Impedance ratio (max.)	Rated voltage (V)		200 · 250	400 · 450	Z(-25°C) / Z(+20°C)	3	8	Z(-40°C) / Z(+20°C)	12	—	Measurement frequency : 120Hz
Impedance ratio (max.)	Rated voltage (V)												
	200 · 250	400 · 450											
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					
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.	<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
Coef. 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.

ALUMINUM ELECTROLYTIC CAPACITORS



■ 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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