

ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

GJ

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

series



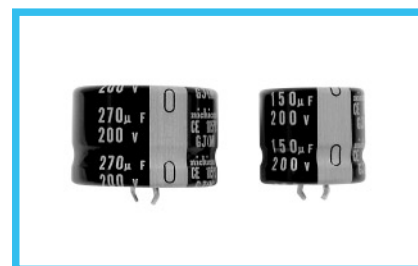
GU

Low Profile

GJ

Low Profile

GJ(15)

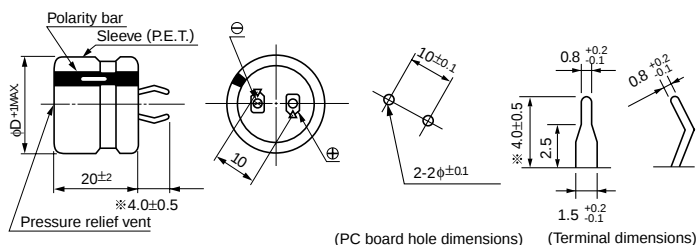


- Withstanding 3000 hours application of rated ripple current at 105°C.
- Ideally suited for flat design fo switching power supply.
- Compliant to the RoHS directive (2002/95/EC).

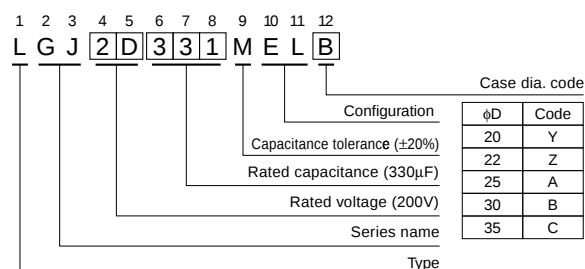
Specifications

Item	Performance Characteristics				
Category Temperature Range	－ 40 to +105°C (160 to 250V) , － 25 to +105°C (315 to 400V)				
Rated Voltage Range	160 to 400V				
Rated Capacitance Range	39 to 680μF				
Capacitance Tolerance	±20% at 120Hz, 20°C				
Leakage Current	$I \leq 3\sqrt{CV}$ (μA) (After 5 minutes' application of rated voltage) [C : Rated Capacitance (μF) V : Voltage (V)]				
Tangent of loss angle (tan δ)	0.15 MAX. 120Hz 20°C				
Stability at Low Temperature	Measurement frequency : 120Hz				
	Rated voltage(V)		160 to 250	315・400	
	Impedance ratio ZT/Z20(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



Type numbering system (Example : 200V 330µF)



※ The other terminal is also available upon request.
Please refer to page 265 for schematic of terminal dimensions.

Dimensions

V(Code)		160V (2C)		180V (2Z)		200V (2D)		250V (2E)		315V (2F)		400V (2G)	
Cap.(µF)	Code												
39	390											20 × 20	0.32
47	470											22 × 20	0.37
56	560									20 × 20	0.38	25 × 20	0.40
68	680									22 × 20	0.45	25 × 20	0.46
82	820									22 × 20	0.47	30 × 20	0.55
100	101							20 × 20	0.51	25 × 20	0.56	30 × 20	0.60
120	121					20 × 20	0.56	22 × 20	0.60	30 × 20	0.65	35 × 20	0.75
150	151			20 × 20	0.62	22 × 20	0.73	25 × 20	0.74	30 × 20	0.70	35 × 20	0.80
180	181	20 × 20	0.68	22 × 20	0.80	22 × 20	0.80	25 × 20	0.75	35 × 20	0.85		
220	221	22 × 20	0.81	25 × 20	0.90	25 × 20	0.85	30 × 20	0.95	35 × 20	0.90		
270	271	25 × 20	0.98	25 × 20	0.95	30 × 20	1.05	30 × 20	1.00				
330	331	25 × 20	1.02	30 × 20	1.15	30 × 20	1.10	35 × 20	1.16				
390	391	30 × 20	1.25	30 × 20	1.20	35 × 20	1.30						
470	471	30 × 20	1.30	35 × 20	1.36	35 × 20	1.41						
560	561	35 × 20	1.46	35 × 20	1.43								
680	681	35 × 20	1.51										
												Case size φD × L (mm)	Rated ripple

Frequency coefficient of rated ripple current

Frequency (Hz)	50	60	120	300	1 k	10k	50k or more
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

Minimum order quantity : 50pcs.

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

CAT.8100Y