ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

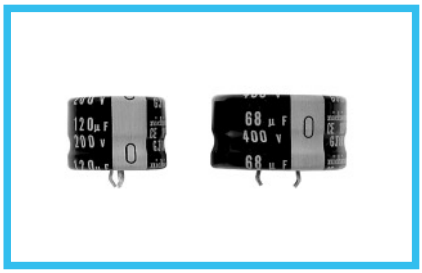
GJ (15) series

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 GJ series.
- Ideally suited for flat design of switching power supply.
- Compliant to the RoHS directive (2002/95/EC).

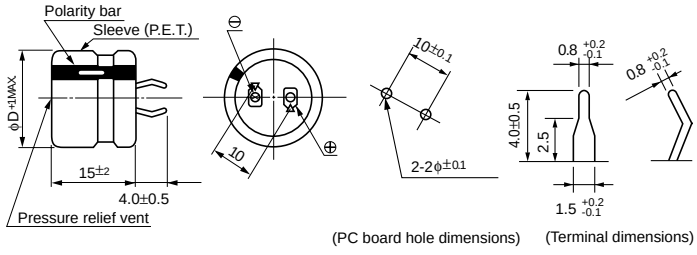
GJ → Low Profile → GJ (15)



■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 390μF
Capacitance Tolerance	±20% at 120Hz, 20°C
Leakage Current	$I \leqq 3\sqrt{CV}$ (μA) (After 5 minutes' application of rated voltage) [C : Rated Capacitance (μF) V : Voltage (V)]
Tangent of loss angle (tan δ)	0.20 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 Impedance ratio ZT/Z20(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



(PC board hole dimensions) (Terminal dimensions)

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

Case length code
Case dia. code
Configuration
Capacitance tolerance (±20%)
Rated capacitance (330μF)
Rated voltage (200V)
Series name
Type

φD	Code
20	Y
22	Z
25	A
30	B
35	C

■Dimensions

Cap.(μF) \ V(Code)	Code	160V (2C)		180V (2Z)		200V (2D)		250V (2E)		315V (2F)		400V (2G)	
39	390											22×15	0.30
47	470											25×15	0.35
56	560									22×15	0.35	30×15	0.40
68	680									25×15	0.40	30×15	0.45
82	820									30×15	0.45	35×15	0.50
100	101					20×15	0.45	22×15	0.50	30×15	0.50	35×15	0.55
120	121			20×15	0.50	22×15	0.55	25×15	0.60	35×15	0.55		
150	151	20×15	0.55	22×15	0.60	25×15	0.65	30×15	0.70	35×15	0.60		
180	181	22×15	0.65	25×15	0.75	25×15	0.75	30×15	0.75				
220	221	25×15	0.80	30×15	0.85	30×15	0.90	35×15	0.90				
270	271	30×15	0.95	30×15	1.00	30×15	1.00	35×15	1.00				
330	331	30×15	1.00	35×15	1.10	35×15	1.10					Case size φD×L (mm)	Rated ripple
390	391	35×15	1.20	35×15	1.20								

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

●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

Minimum order quantity : 50pcs.