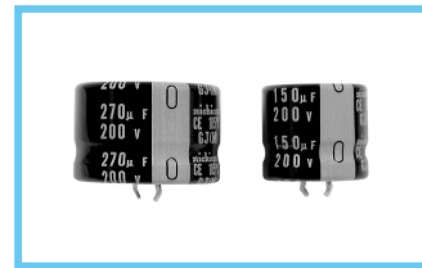
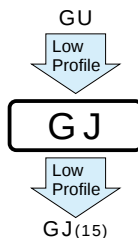


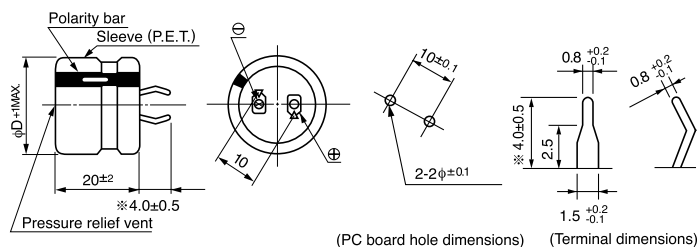
GJSnap-in Terminal Type, Low-Profile Sized,
Wide Temperature Range
series

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

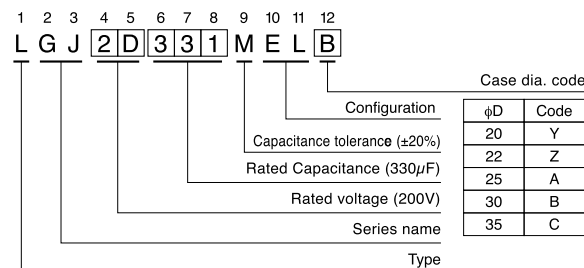
Specifications

Item	Performance Characteristics			
Category Temperature Range	- 40 ~ +105°C (160 ~ 250V) , - 25 ~ +105°C (315 ~ 400V)			
Rated Voltage Range	160 ~ 400V			
Rated Capacitance Range	39 ~ 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)]			
tan δ	0.15 MAX. 120Hz 20°C			
Stability at Low Temperature	Measurement frequency : 120Hz			
	Rated voltage(V)		160 ~ 250	315 ~ 400
	Impedance ratio ZT/Z20(MAX.)	Z - 25°C/Z+20°C	3	8
		Z - 40°C/Z+20°C	12	—
Endurance	After an application of DC voltage (in the range of rated DC voltage even after over-lapping the specified ripple current) for 3000 hours at 105°C, capacitors meet the characteristic requirements listed at right.		Capacitance change	Within ±20% of initial value
			tan δ	200% or less of initial specified value
			Leakage current	Initial specified value or less
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours, and after performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they will meet the requirements listed at right.		Capacitance change	Within ±15% of initial value
			tan δ	150% or less of initial specified value
			Leakage current	Initial specified value or less
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 237 for schematic of terminal dimensions.

Dimensions

V(Code) Cap.(µF) Code		160V (2C)		180V (2Z)		200V (2D)		250V (2E)		315V (2F)		400V (2G)	
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

Rated Ripple (Arms) at 105°C 120Hz

Frequency coefficient of rated ripple current

Frequency (Hz)	50	60	120	300	1 k	10k~	50k~
160 ~ 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.