



Snap-in Terminal Type, Wide Temperature Range

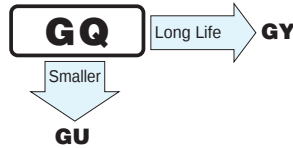
Series



RCJ Approved

Anti-Solvent
Feature
(Through 100V only)Approved by Reliability Center for Electronic
Component. Japan-Certification No.RCJ-03-24D

- Standard snap-in terminal series.
- Extended capacitance ranges based on the numerical values in E12 series under JIS.

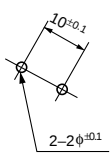
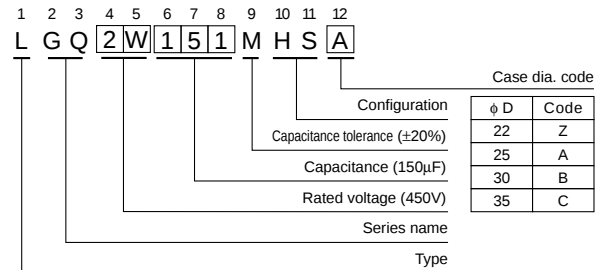
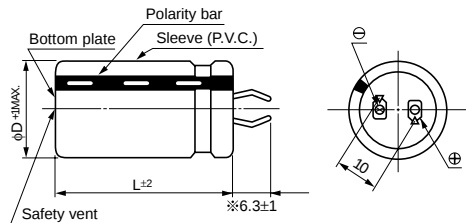


Specifications

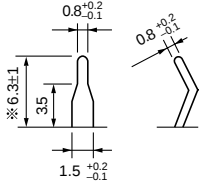
Item	Performance Characteristics																													
Operating Temperature Range	—40 ~ + 105°C (16 ~ 250V), —25 ~ + 105°C (315 ~ 450V)																													
Voltage Range	16 ~ 450V																													
Capacitance Range	56 ~ 47000μF																													
Capacitance Tolerance	±20% at 120Hz, 20°C																													
Leakage Current	I ≤ 3√CV (μA)(After 5 minutes' application of rated voltage)[C : Capacitance(μF), V : Voltage(V)]																													
tan δ	Measurement frequency : 120Hz, Temperature : 20°C																													
	Rated voltage(V)		16	25	35	50	63	80	100	160	180	200	250	315	400	450														
	tan δ (MAX.)		0.50	0.40	0.35	0.30	0.25	0.20	0.20	0.15	0.15	0.15	0.15	0.25	0.25	0.25														
Stability at Low Temperature	Measurement frequency : 120Hz																													
	Rated voltage(V)		16 ~ 100				160 ~ 250				315 ~ 450																			
	Impedance ratio	Z—25°C/Z + 20°C	4				3				8																			
	ZT/Z20(MAX.)	Z—40°C/Z + 20°C	15				12				—																			
Load Life	After an application of DC voltage (in the range of rated DC voltage even after over-lapping the specified ripple current) for 2000 hours at 105°C, capacitors shall meet the characteristics requirements indicated at right.																													
																Capacitance change		Within ±20% of initial value												
																tan δ		200% or less of initial specified value												
Shelf Life	After leaving capacitors under no load at 105°C for 1000 hours they meet the requirements listed at right.																													
																Leakage current		Initial specified value or less												
																Capacitance change		Within ±15% of initial value												
																tan δ		150% or less of initial specified value												
Marking	Printed with white color letter on dark brown sleeve.																													
																Leakage current		Initial specified value or less												
Applicable Standards	JIS C 5141 and JIS C 5102.																													

Drawing

Type numbering system (Example : 450V 150μF)



(PC board hole dimensions)



(Terminal dimensions)

* Shorter terminal(4.0±0.5) is also available upon request.
Please refer page 163(GU series) for schematic of dimensions.

Frequency coefficient of allowable ripple current

Frequency(Hz)	50	60	120	1 k	10k ~
16 ~ 100V	0.88	0.90	1.00	1.15	1.15
160 ~ 250V	0.85	0.88	1.00	1.15	1.20
315 ~ 450V	0.88	0.90	1.00	1.10	1.15

Minimum order quantity : 50pcs.

Dimension table in next page.

CAT.8100N



■ Dimensions

D×L(mm)

V(Code) Cap.(μF) Code φD		16V(1C)				25V(1E)				35V(1V)				50V(1H)			
		22	25	30	35	22	25	30	35	22	25	30	35	22	25	30	35
1800	182													22×25 1.31			
2700	272													22×30 1.70	25×25 1.70		
3300	332									22×25 1.43				22×35 1.98	25×30 2.00		
3900	392									22×30 1.65				22×40 2.25	25×35 2.28	30×25 2.22	
4700	472					22×25 1.55				22×35 1.89	25×25 1.78			22×45 2.56	25×40 2.61	30×30 2.58	
5600	562					22×30 1.76				22×35 2.02	25×30 2.04	30×25 2.12		22×50 2.89	25×40 2.81	30×35 2.95	
6800	682	22×25 1.60				22×30 1.91	25×25 1.91			22×40 2.28	25×35 2.31				25×50 3.37	30×40 3.39	35×30 3.31
8200	822	22×30 1.85				22×35 2.14	25×30 2.16	30×25 2.25		22×50 2.67	25×40 2.60	30×30 2.56				30×45 3.71	35×35 3.66
10000	103	22×30 1.99	25×25 1.99			22×40 2.40	25×35 2.44				25×45 2.92	30×35 2.92				30×50 4.09	35×40 4.07
12000	123	22×35 2.28	25×30 2.30	30×25 2.38		22×45 2.69	25×40 2.74	30×30 2.70			25×50 3.26	30×40 3.28	35×30 3.20				35×45 4.50
15000	153	22×40 2.64	25×35 2.68				25×45 3.15	30×35 3.13	35×30 3.22			30×45 3.74	35×35 3.69				
18000	183	22×45 2.98	25×40 3.04	30×30 3.00			25×50 3.54	30×40 3.54					35×40 4.16				
22000	223		25×45 3.40	30×35 3.39				30×45 4.24	35×35 3.96				35×50 4.92				
27000	273		25×50 3.81	30×40 3.83	35×30 3.74				35×45 4.75								
33000	333			30×45 4.30	35×35 4.24				35×50 5.39								
39000	393			30×50 4.74	35×40 4.72												
47000	473				35×45 5.27												

V(Code) Cap.(μF) Code φD		63V(1J)				80V(1K)				100V(2A)			
		22	25	30	35	22	25	30	35	22	25	30	35
560	561									22×25 1.07			
820	821					22×25 1.11				22×30 1.35	25×25 1.35		
1000	102					22×30 1.29	25×25 1.29			22×35 1.54	25×30 1.56		
1200	122	22×25 1.25				22×30 1.39	25×25 1.39			22×40 1.74	25×35 1.76	30×25 1.71	
1500	152	22×30 1.44	25×25 1.44			22×35 1.61	25×30 1.62			22×45 1.99	25×40 2.03	30×30 2.00	
1800	182	22×30 1.52	25×25 1.52			22×40 1.83	25×35 1.86	30×25 1.81			25×45 2.28	30×35 2.27	
2200	222	22×35 1.73	25×30 1.75			22×45 2.09	25×35 2.01	30×30 2.10			25×50 2.57	30×40 2.59	35×30 2.52
2700	272	22×40 1.97	25×35 1.99	30×25 1.93			25×45 2.43	30×35 2.43				30×45 2.94	35×35 2.90
3300	332	22×50 2.32	25×40 2.27	30×30 2.24			25×50 2.76	30×40 2.78	35×30 2.71			30×50 3.32	35×40 3.31
3900	392		25×45 2.54	30×35 2.55				30×45 3.12	35×35 3.07				35×45 3.69
4700	472		25×50 2.88	30×40 2.90	35×30 2.83			30×50 3.52	35×40 3.50				35×50 4.14
5600	562			30×45 3.28	35×35 3.24				35×45 3.87				
6800	682			30×50 3.73	35×40 3.71				35×50 4.19				
8200	822				35×45 4.16								
10000	103				35×50 4.69								

Case size
Allowable ripple

Allowable Ripple (A rms) at 105°C 120Hz

CAT.8100N



■ Dimensions

D×L(mm)

Cap.(μF) \ V(Code) φD		160V(2C)				180V(2Z)				200V(2D)				250V(2E)			
		22	25	30	35	22	25	30	35	22	25	30	35	22	25	30	35
150	151													22×25 0.65			
180	181													22×25 0.75			
220	221													22×30 0.85	25×25 0.85		
270	271	22×25 0.90				22×25 0.90				22×25 0.90				22×35 1.00	25×30 1.00	30×25 1.00	
330	331	22×25 1.00				22×30 1.05				22×30 1.05	25×25 1.05			22×40 1.10	25×30 1.10	30×25 1.10	
390	391	22×30 1.15				22×30 1.20	25×25 1.20			22×35 1.25	25×30 1.25			22×45 1.25	25×40 1.25	30×30 1.25	
470	471	22×35 1.30	25×25 1.30			22×35 1.30	25×30 1.30			22×40 1.35	25×30 1.35	30×25 1.35		22×50 1.30	25×40 1.30	30×35 1.30	35×25 1.30
560	561	22×40 1.45	25×30 1.45			22×40 1.40	25×35 1.40	30×25 1.40		22×45 1.50	25×35 1.50	30×30 1.50			25×50 1.55	30×35 1.55	35×30 1.55
680	681	22×45 1.65	25×35 1.65	30×25 1.65		22×45 1.65	25×40 1.65	30×30 1.65		22×50 1.70	25×45 1.70	30×30 1.70	35×25 1.70			30×45 1.80	35×35 1.80
820	821	22×50 1.80	25×40 1.80	30×30 1.80	35×25 1.80	22×50 1.85	25×45 1.85	30×35 1.85	35×25 1.85		25×50 1.90	30×35 1.90	35×30 1.90				35×40 1.95
1000	102		25×45 2.00	30×35 2.00	35×30 2.00		25×50 2.05	30×40 2.05	35×30 2.05			30×45 2.15	35×35 2.15				35×45 2.30
1200	122		25×50 2.30	30×40 2.30	35×30 2.30			30×45 2.30	35×35 2.30			30×50 2.30	35×35 2.30				35×50 2.65
1500	152			30×45 2.65	35×35 2.65			30×50 2.70	35×40 2.70				35×45 2.75				
1800	182			30×50 3.05	35×45 3.05				35×45 3.15				35×50 3.25				
2200	222				35×50 3.50				35×50 3.60								

Cap.(μF) \ V(Code) φD		315V(2F)				400V(2G)				450V(2W)			
		22	25	30	35	22	25	30	35	22	25	30	35
56	560									22×25 0.41			
68	680					22×25 0.40				22×30 0.48	25×25 0.48		
82	820	22×25 0.46				22×30 0.50	25×25 0.50			22×35 0.56			
100	101	22×30 0.55				22×35 0.55	25×30 0.55			22×40 0.64	25×30 0.61	30×25 0.63	
120	121	22×30 0.60	25×25 0.60			22×40 0.60	25×30 0.60	30×25 0.60		22×45 0.72	25×35 0.71		
150	151	22×35 0.70	25×30 0.70	30×25 0.70		22×45 0.70	25×35 0.70	30×30 0.70		22×50 0.83	25×40 0.81	30×30 0.80	35×25 0.82
180	181	22×40 0.83	25×30 0.78	30×25 0.82		22×50 0.85	25×40 0.85	30×30 0.85	35×25 0.85		25×45 0.92	30×35 0.91	
220	221	22×45 0.90	25×35 0.90	30×30 0.90			25×45 0.90	30×35 0.90	35×30 0.90		25×50 1.05	30×40 1.05	35×30 1.03
270	271	22×50 1.00	25×40 1.00	30×35 1.00	35×25 1.00		25×50 1.00	30×40 1.00	35×30 1.00			30×45 1.21	35×35 1.19
330	331		25×50 1.25	30×35 1.25	35×30 1.25			30×45 1.25	35×35 1.25			30×50 1.38	35×40 1.38
390	391			30×40 1.35	35×35 1.35			30×50 1.35	35×40 1.35				35×45 1.55
470	471			30×50 1.45	35×40 1.45				35×45 1.45				35×50 1.74
560	561				35×45 1.65				35×50 1.65				
680	681				35×50 1.90								

Allowable Ripple (A rms) at 105°C 120Hz