



Snap-in Terminal Type, Wide Temperature Range

Series



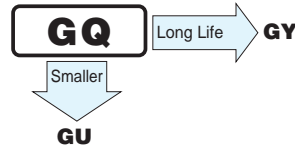
RCJ Approved



Anti-Solvent Feature
(Through 100V only)

Approved by Reliability Center for Electronic Component. Japan-Certification No.RCJ-03-24D

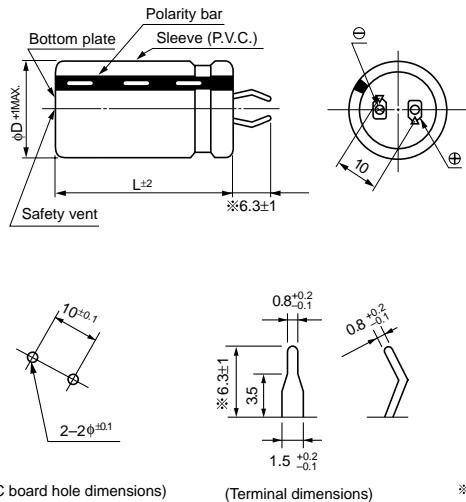
- Standard snap-in terminal series.
- Extended capacitance ranges based on the numerical values in E12 series under JIS.



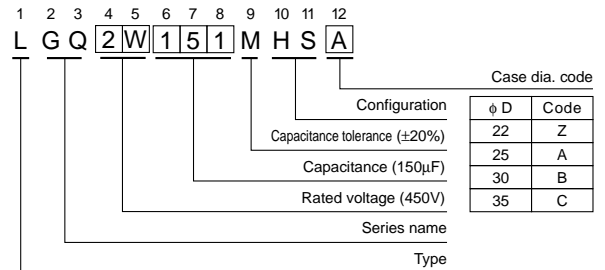
Specifications

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	$I \leq 3\sqrt{CV}$ (μA)(After 5 minutes' application of rated voltage)[C : Capacitance(μF), V : Voltage(V)]																													
tan δ	Measurement frequency : 120Hz, Temperature : 20°C																													
	<table border="1"> <tr> <td>Rated voltage(V)</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>80</td> <td>100</td> <td>160</td> <td>180</td> <td>200</td> <td>250</td> <td>315</td> <td>400</td> <td>450</td> </tr> <tr> <td>tan δ (MAX.)</td> <td>0.50</td> <td>0.40</td> <td>0.35</td> <td>0.30</td> <td>0.25</td> <td>0.20</td> <td>0.20</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.25</td> <td>0.25</td> <td>0.25</td> </tr> </table>	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
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																													
	<table border="1"> <tr> <td>Rated voltage(V)</td> <td>16 ~ 100</td> <td>160 ~ 250</td> <td>315 ~ 450</td> </tr> <tr> <td>Impedance ratio Z—25°C/Z + 20°C</td> <td>4</td> <td>3</td> <td>8</td> </tr> <tr> <td>ZT/Z20(MAX.) Z—40°C/Z + 20°C</td> <td>15</td> <td>12</td> <td>—</td> </tr> </table>	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	—																	
	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	—																											
<table border="1"> <tr> <td>Capacitance change</td> <td>Within ±20% of initial value</td> </tr> <tr> <td>tan δ</td> <td>200% or less of initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Initial specified value or less</td> </tr> </table>	Capacitance change	Within ±20% of initial value	tan δ	200% or less of initial specified value	Leakage current	Initial specified value or less																								
Capacitance change	Within ±20% of initial value																													
tan δ	200% or less of initial specified value																													
Leakage current	Initial specified value or less																													
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.																													
Shelf Life	After leaving capacitors under no load at 105°C for 1000 hours they meet the requirements listed at right.																													
	<table border="1"> <tr> <td>Capacitance change</td> <td>Within ±15% of initial value</td> </tr> <tr> <td>tan δ</td> <td>150% or less of initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Initial specified value or less</td> </tr> </table>	Capacitance change	Within ±15% of initial value	tan δ	150% or less of initial specified value	Leakage current	Initial specified value or less																							
	Capacitance change	Within ±15% of initial value																												
tan δ	150% or less of initial specified value																													
Leakage current	Initial specified value or less																													
<table border="1"> <tr> <td>Capacitance change</td> <td>Within ±15% of initial value</td> </tr> <tr> <td>tan δ</td> <td>150% or less of initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Initial specified value or less</td> </tr> </table>	Capacitance change	Within ±15% of initial value	tan δ	150% or less of initial specified value	Leakage current	Initial specified value or less																								
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 dark brown sleeve.																													
Applicable Standards	JIS C 5141 and JIS C 5102.																													

Drawing



Type numbering system (Example : 450V 150μF)



* 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.

ALUMINUM ELECTROLYTIC CAPACITORS



■ Dimensions

D×L(mm)

Cap.(μF)	Code	V(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															

Cap.(μF)	Code	V(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															

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



■ Dimensions

D×L(mm)

Cap.(μF)	V(Code)	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)	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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Nichicon:

[LGQ1E223MESB](#) [LGQ1H272MELA](#) [LGQ1H472MESA](#) [LGQ1K102MESA](#) [LGQ1K122MESA](#) [LGQ1K392MESC](#)
[LGQ1V472MELA](#) [LGQ1V682MESA](#) [LGQ2C471MESA](#) [LGQ2D102MESC](#) [LGQ2D471MESA](#) [LGQ2D471MESB](#)
[LGQ2D471MELZ](#) [LGQ2D681MESC](#) [LGQ2E471MESA](#) [LGQ2E471MESC](#) [LGQ2E561MESA](#) [LGQ2E681MESC](#)
[LGQ2G121MELB](#) [LGQ2G121MESB](#) [LGQ2G221MESB](#) [LGQ2G271MESC](#) [LGQ2G471MELC](#) [LGQ2G471MESC](#)
[LGQ2G820MESA](#) [LGQ2W151MESB](#) [LGQ2W221MESA](#) [LGQ2W331MESB](#) [LGQ2W471MESC](#) [LGQ2W221MESC](#)
[LGQ2A102MHSA](#) [LGQ2A472MHSC](#) [LGQ2D681MHSZ](#) [LGQ2D821MHSB](#) [LGQ2D122MHSB](#) [LGQ2E271MHSZ](#)
[LGQ2E331MHSA](#) [LGQ2E102MHSC](#) [LGQ2G680MHSZ](#) [LGQ2G101MHSZ](#) [LGQ2G331MHSC](#) [LGQ2W560MHSZ](#)
[LGQ2W101MHSA](#) [LGQ2W151MHSC](#) [LGQ1C682MESZ](#) [LGQ1C822MESZ](#) [LGQ1C103MESZ](#) [LGQ1C103MESA](#)
[LGQ1C123MESZ](#) [LGQ1C123MESA](#) [LGQ1C123MESB](#) [LGQ1C153MESZ](#) [LGQ1C153MESA](#) [LGQ1C183MESZ](#)
[LGQ1C183MESA](#) [LGQ1C183MESB](#) [LGQ1C223MESA](#) [LGQ1C223MESB](#) [LGQ1C273MESA](#) [LGQ1C273MESB](#)
[LGQ1C273MESC](#) [LGQ1C333MESB](#) [LGQ1C333MESC](#) [LGQ1C393MESB](#) [LGQ1C393MESC](#) [LGQ1C473MESC](#)
[LGQ1E472MESZ](#) [LGQ1E562MESZ](#) [LGQ1E682MESZ](#) [LGQ1E682MESA](#) [LGQ1E822MESZ](#) [LGQ1E822MESA](#)
[LGQ1E822MESB](#) [LGQ1E103MESZ](#) [LGQ1E103MESA](#) [LGQ1E123MESZ](#) [LGQ1E123MESA](#) [LGQ1E123MESB](#)
[LGQ1E153MESA](#) [LGQ1E153MESB](#) [LGQ1E153MESC](#) [LGQ1E183MESA](#) [LGQ1E183MESB](#) [LGQ1E223MESC](#)
[LGQ1E273MESC](#) [LGQ1E333MESC](#) [LGQ1V332MESZ](#) [LGQ1V392MESZ](#) [LGQ1V472MESZ](#) [LGQ1V472MESA](#)
[LGQ1V562MESZ](#) [LGQ1V562MESA](#) [LGQ1V562MESB](#) [LGQ1V682MESZ](#) [LGQ1V822MESZ](#) [LGQ1V822MESA](#)
[LGQ1V822MESB](#) [LGQ1V103MESA](#) [LGQ1V103MESB](#) [LGQ1V123MESA](#)