



Snap-in Terminal Type, Wide Temperature Range

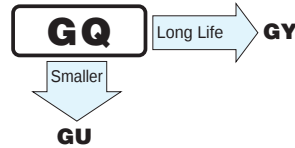
Series



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.

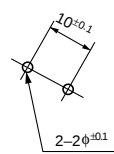
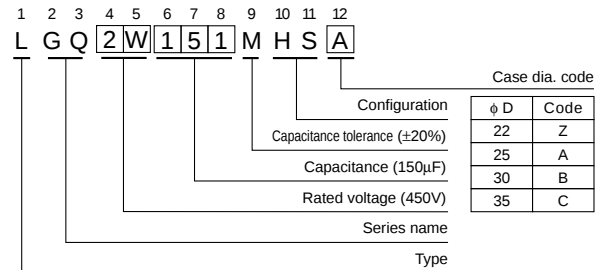
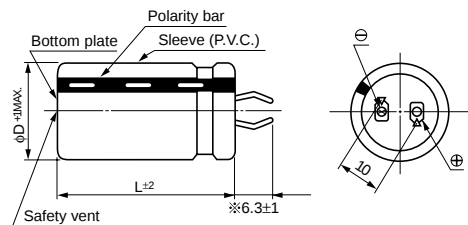


## Specifications

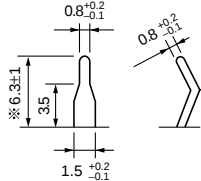
|                              |                                                                                                                                                                                                                                |                 |          |      |      |      |           |      |                    |      |                                         |      |      |      |      |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------|------|------|------|-----------|------|--------------------|------|-----------------------------------------|------|------|------|------|
| 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 |      |      |      |      |
|                              |                                                                                                                                                                                                                                |                 |          |      |      |      |           |      | Leakage current    |      | Initial specified value or less         |      |      |      |      |
| Shelf Life                   | After leaving capacitors under no load at 105°C for 1000 hours they 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 dark brown sleeve.                                                                                                                                                                          |                 |          |      |      |      |           |      |                    |      |                                         |      |      |      |      |
| 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.



## ■ Dimensions

D×L(mm)

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

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

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

CAT.8100N



## ■ Dimensions

D×L(mm)

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

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

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

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[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](#)