

LGG

Snap-in Terminal Type, 105°C Ultra-Smaller-Sized



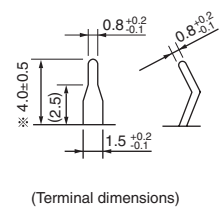
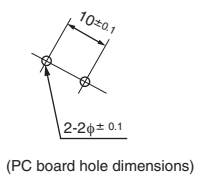
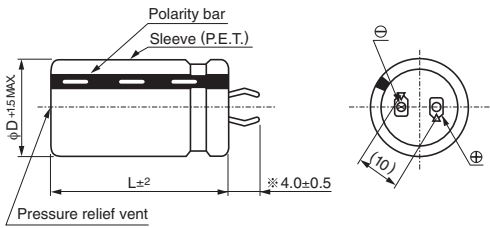
- One rank smaller case sized than LGN.
- Suited for equipment down sizing.
- Compliant to the RoHS directive (2011/65/EU).



Specifications

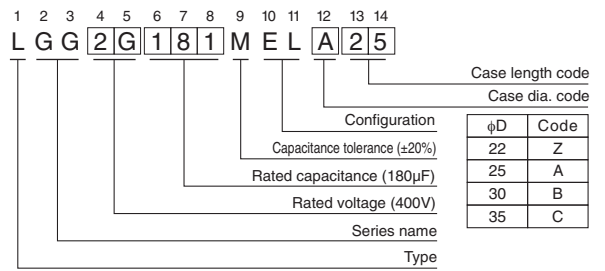
| Item | Performance Characteristics | | | | |
|-------------------------------|---|-----------------|------------|---------------------------------------|---|
| Category Temperature Range | - 40 to +105°C (160 to 250V) , - 25 to +105°C (400 to 450V) | | | | |
| Rated Voltage Range | 160 to 450V | | | | |
| Rated Capacitance Range | 100 to 3300μF | | | | |
| 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)] | | | | |
| Tangent of loss angle (tan δ) | Rated voltage (V) | 160 to 420 | 450 | Measurement frequency : 120Hz at 20°C | |
| | tan δ (MAX.) | 0.15 | 0.20 | | |
| Stability at Low Temperature | Rated voltage (V) | | 160 to 250 | 400 to 450 | Measurement frequency : 120Hz |
| | Impedance ratio ZT/Z20 (MAX.) | Z - 25°C/Z+20°C | 4 | 8 | |
| 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 characteristic requirements listed at right. | | | 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 |
| Marking | Printed with white color letter on black sleeve. | | | | |

Drawing



※ The other terminal is also available upon request. Please refer page 334 for schematic of dimensions.

Type numbering system (Example : 400V 180μF)



Minimum order quantity : 50pcs.

● Dimension table in next page.

LGG

■ Dimensions

| 160V (2C) | | | | |
|-----------|-----------------|----------------------|----------------------|----------------|
| Cap. (μF) | Size φD x L(mm) | Rated ripple (mArms) | Leakage Current (mA) | Code |
| 560 | 22 x 25 | 1400 | 0.89 | LGG2C561MELZ25 |
| 680 | 22 x 30 | 1500 | 0.98 | LGG2C681MELZ30 |
| | 25 x 25 | 1700 | 0.98 | LGG2C681MELA25 |
| 820 | 22 x 35 | 2000 | 1.08 | LGG2C821MELZ35 |
| | 25 x 30 | 2000 | 1.08 | LGG2C821MELA30 |
| 1000 | 22 x 40 | 2100 | 1.20 | LGG2C102MELZ40 |
| | 25 x 35 | 2200 | 1.20 | LGG2C102MELA35 |
| | 30 x 25 | 2200 | 1.20 | LGG2C102MELB25 |
| 1200 | 25 x 40 | 2300 | 1.31 | LGG2C122MELA40 |
| | 30 x 30 | 2300 | 1.31 | LGG2C122MELB30 |
| | 35 x 25 | 2300 | 1.31 | LGG2C122MELC25 |
| 1500 | 25 x 45 | 2500 | 1.46 | LGG2C152MELA45 |
| | 30 x 35 | 2500 | 1.46 | LGG2C152MELB35 |
| | 35 x 30 | 2500 | 1.46 | LGG2C152MELC30 |
| 1800 | 30 x 40 | 2700 | 1.60 | LGG2C182MELB40 |
| | 35 x 30 | 2550 | 1.60 | LGG2C182MELC30 |
| 2200 | 30 x 45 | 2900 | 1.77 | LGG2C222MELB45 |
| | 35 x 35 | 2900 | 1.77 | LGG2C222MELC35 |
| 2700 | 35 x 40 | 3000 | 1.97 | LGG2C272MELC40 |
| 3300 | 35 x 45 | 3100 | 2.17 | LGG2C332MELC45 |

| 180V (2Z) | | | | |
|-----------|-----------------|----------------------|----------------------|----------------|
| Cap. (μF) | Size φD x L(mm) | Rated ripple (mArms) | Leakage Current (mA) | Code |
| 470 | 22 x 25 | 1300 | 0.87 | LGG2Z471MELZ25 |
| 560 | 22 x 30 | 1500 | 0.95 | LGG2Z561MELZ30 |
| 680 | 22 x 35 | 1700 | 1.04 | LGG2Z681MELZ35 |
| | 25 x 30 | 1700 | 1.04 | LGG2Z681MELA30 |
| 820 | 22 x 40 | 2000 | 1.15 | LGG2Z821MELZ40 |
| | 25 x 35 | 2000 | 1.15 | LGG2Z821MELA35 |
| | 30 x 25 | 2000 | 1.15 | LGG2Z821MELB25 |
| 1000 | 22 x 45 | 2100 | 1.27 | LGG2Z102MELZ45 |
| | 25 x 35 | 2050 | 1.27 | LGG2Z102MELA35 |
| | 30 x 30 | 2200 | 1.27 | LGG2Z102MELB30 |
| 1200 | 22 x 50 | 2150 | 1.39 | LGG2Z122MELZ50 |
| | 25 x 40 | 2150 | 1.39 | LGG2Z122MELA40 |
| | 30 x 35 | 2300 | 1.39 | LGG2Z122MELB35 |
| | 35 x 25 | 2150 | 1.39 | LGG2Z122MELC25 |
| 1500 | 25 x 50 | 2400 | 1.55 | LGG2Z152MELA50 |
| | 30 x 40 | 2500 | 1.55 | LGG2Z152MELB40 |
| 1800 | 35 x 30 | 2350 | 1.55 | LGG2Z152MELC30 |
| | 30 x 45 | 2700 | 1.70 | LGG2Z182MELB45 |
| 2200 | 35 x 35 | 2700 | 1.70 | LGG2Z182MELC35 |
| | 30 x 50 | 2900 | 1.88 | LGG2Z222MELB50 |
| 2700 | 35 x 40 | 2900 | 1.88 | LGG2Z222MELC40 |
| | 35 x 45 | 3000 | 2.09 | LGG2Z272MELC45 |
| 3300 | 35 x 50 | 3100 | 2.31 | LGG2Z332MELC50 |

| 200V (2D) | | | | |
|-----------|-----------------|----------------------|----------------------|----------------|
| Cap. (μF) | Size φD x L(mm) | Rated ripple (mArms) | Leakage Current (mA) | Code |
| 470 | 22 x 25 | 1200 | 0.91 | LGG2D471MELZ25 |
| 560 | 22 x 30 | 1480 | 1.00 | LGG2D561MELZ30 |
| | 25 x 25 | 1480 | 1.00 | LGG2D561MELA25 |
| 680 | 22 x 35 | 1600 | 1.10 | LGG2D681MELZ35 |
| | 25 x 30 | 1600 | 1.10 | LGG2D681MELA30 |
| 820 | 22 x 40 | 1750 | 1.21 | LGG2D821MELZ40 |
| | 25 x 35 | 1750 | 1.21 | LGG2D821MELA35 |
| 1000 | 30 x 25 | 1750 | 1.21 | LGG2D821MELB25 |
| | 22 x 45 | 2040 | 1.34 | LGG2D102MELZ45 |
| | 25 x 40 | 2040 | 1.34 | LGG2D102MELA40 |
| 1200 | 30 x 30 | 2040 | 1.34 | LGG2D102MELB30 |
| | 25 x 45 | 2300 | 1.46 | LGG2D122MELA45 |
| | 30 x 35 | 2300 | 1.46 | LGG2D122MELB35 |
| 1500 | 35 x 25 | 2300 | 1.46 | LGG2D122MELC25 |
| | 25 x 50 | 2570 | 1.64 | LGG2D152MELA50 |
| | 30 x 40 | 2570 | 1.64 | LGG2D152MELB40 |
| 1800 | 35 x 30 | 2570 | 1.64 | LGG2D152MELC30 |
| | 30 x 45 | 2680 | 1.80 | LGG2D182MELB45 |
| 2200 | 35 x 35 | 2680 | 1.80 | LGG2D182MELC35 |
| | 30 x 50 | 2920 | 1.98 | LGG2D222MELB50 |
| 2700 | 35 x 40 | 2920 | 1.98 | LGG2D222MELC40 |
| | 35 x 45 | 3270 | 2.20 | LGG2D272MELC45 |

| 220V (2P) | | | | |
|-----------|-----------------|----------------------|----------------------|----------------|
| Cap. (μF) | Size φD x L(mm) | Rated ripple (mArms) | Leakage Current (mA) | Code |
| 330 | 22 x 25 | 1260 | 0.80 | LGG2P331MELZ25 |
| 390 | 22 x 30 | 1340 | 0.87 | LGG2P391MELZ30 |
| 470 | 22 x 35 | 1480 | 0.96 | LGG2P471MELZ35 |
| | 25 x 25 | 1400 | 0.96 | LGG2P471MELA25 |
| 560 | 22 x 35 | 1450 | 1.05 | LGG2P561MELZ35 |
| | 25 x 30 | 1450 | 1.05 | LGG2P561MELA30 |
| 680 | 22 x 40 | 1650 | 1.16 | LGG2P681MELZ40 |
| | 25 x 35 | 1780 | 1.16 | LGG2P681MELA35 |
| | 30 x 25 | 1650 | 1.16 | LGG2P681MELB25 |
| 820 | 22 x 50 | 1930 | 1.27 | LGG2P821MELZ50 |
| | 25 x 40 | 1930 | 1.27 | LGG2P821MELA40 |
| | 30 x 30 | 1850 | 1.27 | LGG2P821MELB30 |
| 1000 | 35 x 25 | 1930 | 1.27 | LGG2P821MELC25 |
| | 25 x 45 | 2150 | 1.40 | LGG2P102MELA45 |
| | 30 x 35 | 2330 | 1.40 | LGG2P102MELB35 |
| 1200 | 35 x 30 | 2330 | 1.40 | LGG2P102MELC30 |
| | 30 x 40 | 2500 | 1.54 | LGG2P122MELB40 |
| 1500 | 35 x 30 | 2350 | 1.54 | LGG2P122MELC30 |
| | 30 x 45 | 2550 | 1.72 | LGG2P152MELB45 |
| 1800 | 35 x 35 | 2500 | 1.72 | LGG2P152MELC35 |
| | 35 x 40 | 2700 | 1.88 | LGG2P182MELC40 |
| 2200 | 35 x 50 | 2950 | 2.08 | LGG2P222MELC50 |

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



■ Dimensions

| 250V (2E) | | | | |
|-----------|-----------------|----------------------|----------------------|----------------|
| Cap. (μF) | Size φD x L(mm) | Rated ripple (mArms) | Leakage Current (mA) | Code |
| 390 | 22 x 30 | 1200 | 0.93 | LGG2E391MELZ30 |
| | 25 x 25 | 1200 | 0.93 | LGG2E391MELA25 |
| 470 | 22 x 35 | 1300 | 1.02 | LGG2E471MELZ35 |
| | 25 x 30 | 1300 | 1.02 | LGG2E471MELA30 |
| 560 | 22 x 40 | 1400 | 1.12 | LGG2E561MELZ40 |
| | 25 x 35 | 1500 | 1.12 | LGG2E561MELA35 |
| 680 | 30 x 25 | 1400 | 1.12 | LGG2E561MELB25 |
| | 22 x 45 | 1500 | 1.23 | LGG2E681MELZ45 |
| 820 | 25 x 40 | 1700 | 1.23 | LGG2E681MELA40 |
| | 30 x 30 | 1700 | 1.23 | LGG2E681MELB30 |
| 1000 | 25 x 45 | 2000 | 1.35 | LGG2E821MELA45 |
| | 30 x 35 | 2000 | 1.35 | LGG2E821MELB35 |
| | 35 x 30 | 2000 | 1.35 | LGG2E821MELC30 |
| 1200 | 25 x 50 | 2200 | 1.50 | LGG2E102MELA50 |
| | 30 x 40 | 2200 | 1.50 | LGG2E102MELB40 |
| | 35 x 30 | 2000 | 1.50 | LGG2E102MELC30 |
| 1500 | 30 x 45 | 2300 | 1.64 | LGG2E122MELB45 |
| | 35 x 35 | 2200 | 1.64 | LGG2E122MELC35 |
| 1800 | 30 x 50 | 2300 | 1.83 | LGG2E152MELB50 |
| | 35 x 40 | 2300 | 1.83 | LGG2E152MELC40 |

| 400V (2G) | | | | |
|-----------|-----------------|----------------------|----------------------|----------------|
| Cap. (μF) | Size φD x L(mm) | Rated ripple (mArms) | Leakage Current (mA) | Code |
| 120 | 22 x 25 | 680 | 0.65 | LGG2G121MELZ25 |
| 180 | 22 x 30 | 730 | 0.80 | LGG2G181MELZ30 |
| | 25 x 25 | 730 | 0.80 | LGG2G181MELA25 |
| 220 | 22 x 35 | 850 | 0.88 | LGG2G221MELZ35 |
| | 25 x 30 | 850 | 0.88 | LGG2G221MELA30 |
| 270 | 22 x 40 | 1000 | 0.98 | LGG2G271MELZ40 |
| | 25 x 35 | 1000 | 0.98 | LGG2G271MELA35 |
| | 30 x 25 | 1000 | 0.98 | LGG2G271MELB25 |
| 330 | 22 x 50 | 1150 | 1.08 | LGG2G331MELZ50 |
| | 25 x 40 | 1150 | 1.08 | LGG2G331MELA40 |
| | 30 x 30 | 1150 | 1.08 | LGG2G331MELB30 |
| | 35 x 25 | 1150 | 1.08 | LGG2G331MELC25 |
| 390 | 25 x 45 | 1400 | 1.18 | LGG2G391MELA45 |
| | 30 x 35 | 1400 | 1.18 | LGG2G391MELB35 |
| | 35 x 30 | 1550 | 1.18 | LGG2G391MELC30 |
| 470 | 25 x 50 | 1550 | 1.30 | LGG2G471MELA50 |
| | 30 x 40 | 1550 | 1.30 | LGG2G471MELB40 |
| | 35 x 30 | 1550 | 1.30 | LGG2G471MELC30 |
| 560 | 30 x 45 | 1630 | 1.41 | LGG2G561MELB45 |
| | 35 x 35 | 1630 | 1.41 | LGG2G561MELC35 |
| 680 | 30 x 50 | 1800 | 1.56 | LGG2G681MELB50 |
| | 35 x 40 | 1800 | 1.56 | LGG2G681MELC40 |
| 820 | 35 x 45 | 2000 | 1.71 | LGG2G821MELC45 |
| 1000 | 35 x 50 | 2140 | 1.89 | LGG2G102MELC50 |

| 420V (W6) | | | | |
|-----------|-----------------|----------------------|----------------------|----------------|
| Cap. (μF) | Size φD x L(mm) | Rated ripple (mArms) | Leakage Current (mA) | Code |
| 120 | 22 x 30 | 810 | 0.67 | LGGW6121MELZ30 |
| 150 | 22 x 35 | 840 | 0.75 | LGGW6151MELZ35 |
| | 25 x 25 | 820 | 0.75 | LGGW6151MELA25 |
| 180 | 22 x 35 | 850 | 0.82 | LGGW6181MELZ35 |
| | 25 x 30 | 910 | 0.82 | LGGW6181MELA30 |
| 220 | 22 x 40 | 950 | 0.91 | LGGW6221MELZ40 |
| | 25 x 35 | 1050 | 0.91 | LGGW6221MELA35 |
| | 30 x 25 | 950 | 0.91 | LGGW6221MELB25 |
| 270 | 22 x 50 | 1150 | 1.01 | LGGW6271MELZ50 |
| | 25 x 40 | 1250 | 1.01 | LGGW6271MELA40 |
| | 30 x 30 | 1250 | 1.01 | LGGW6271MELB30 |
| 330 | 25 x 45 | 1350 | 1.11 | LGGW6331MELA45 |
| | 30 x 35 | 1420 | 1.11 | LGGW6331MELB35 |
| | 35 x 30 | 1420 | 1.11 | LGGW6331MELC30 |
| 390 | 25 x 50 | 1450 | 1.21 | LGGW6391MELA50 |
| | 30 x 40 | 1610 | 1.21 | LGGW6391MELB40 |
| | 35 x 30 | 1450 | 1.21 | LGGW6391MELC30 |
| 470 | 30 x 45 | 1860 | 1.33 | LGGW6471MELB45 |
| | 35 x 35 | 1700 | 1.33 | LGGW6471MELC35 |
| 560 | 35 x 40 | 1900 | 1.45 | LGGW6561MELC40 |
| 680 | 35 x 45 | 2050 | 1.60 | LGGW6681MELC45 |

| 450V (2W) | | | | |
|-----------|-----------------|----------------------|----------------------|----------------|
| Cap. (μF) | Size φD x L(mm) | Rated ripple (mArms) | Leakage Current (mA) | Code |
| 100 | 22 x 25 | 640 | 0.63 | LGG2W101MELZ25 |
| 120 | 22 x 30 | 690 | 0.69 | LGG2W121MELZ30 |
| | 25 x 25 | 690 | 0.69 | LGG2W121MELA25 |
| 150 | 22 x 35 | 720 | 0.77 | LGG2W151MELZ35 |
| | 25 x 30 | 790 | 0.77 | LGG2W151MELA30 |
| 180 | 22 x 40 | 790 | 0.85 | LGG2W181MELZ40 |
| | 25 x 30 | 790 | 0.85 | LGG2W181MELA30 |
| 220 | 22 x 45 | 870 | 0.94 | LGG2W221MELZ45 |
| | 25 x 35 | 870 | 0.94 | LGG2W221MELA35 |
| | 30 x 30 | 790 | 0.94 | LGG2W221MELB30 |
| 270 | 22 x 50 | 1050 | 1.04 | LGG2W271MELZ50 |
| | 25 x 40 | 1050 | 1.04 | LGG2W271MELA40 |
| | 30 x 30 | 1050 | 1.04 | LGG2W271MELB30 |
| | 35 x 25 | 1050 | 1.04 | LGG2W271MELC25 |
| 330 | 25 x 50 | 1200 | 1.15 | LGG2W331MELA50 |
| | 30 x 35 | 1200 | 1.15 | LGG2W331MELB35 |
| | 35 x 30 | 1200 | 1.15 | LGG2W331MELC30 |
| 390 | 30 x 40 | 1380 | 1.25 | LGG2W391MELB40 |
| | 35 x 35 | 1380 | 1.25 | LGG2W391MELC35 |
| 470 | 30 x 45 | 1550 | 1.37 | LGG2W471MELB45 |
| | 35 x 40 | 1550 | 1.37 | LGG2W471MELC40 |
| 560 | 35 x 45 | 1700 | 1.50 | LGG2W561MELC45 |
| 680 | 35 x 50 | 1910 | 1.65 | LGG2W681MELC50 |

● Frequency coefficient of rated ripple current

| Coeff. | Frequency (Hz) | 50 | 60 | 120 | 300 | 1k | 10k | 50k or more |
|--------|----------------|-------------|------|------|------|------|------|-------------|
| | | 160 to 250V | 0.81 | 0.85 | 1.00 | 1.17 | 1.32 | 1.45 |
| | 400 to 450V | 0.77 | 0.82 | 1.00 | 1.16 | 1.30 | 1.41 | 1.43 |

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

Mouser Electronics

Authorized Distributor

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

Nichicon:

[LGG2W681MELC50](#) [LGG2W271MELB30](#) [LGG2W331MELC30](#) [LGG2C102MELA35](#) [LGG2C102MELB25](#)
[LGG2C102MELZ40](#) [LGG2C122MELA40](#) [LGG2C122MELB30](#) [LGG2C122MELC25](#) [LGG2C152MELA45](#)
[LGG2C152MELB35](#) [LGG2C152MELC30](#) [LGG2C182MELB40](#) [LGG2C182MELC30](#) [LGG2C222MELB45](#)
[LGG2C222MELC35](#) [LGG2C272MELC40](#) [LGG2C332MELC45](#) [LGG2C561MELZ25](#) [LGG2C681MELA25](#)
[LGG2C681MELZ30](#) [LGG2C821MELA30](#) [LGG2C821MELZ35](#) [LGG2D102MELA40](#) [LGG2D102MELB30](#)
[LGG2D102MELZ45](#) [LGG2D122MELA45](#) [LGG2D122MELB35](#) [LGG2D122MELC25](#) [LGG2D152MELA50](#)
[LGG2D152MELB40](#) [LGG2D152MELC30](#) [LGG2D182MELB45](#) [LGG2D182MELC35](#) [LGG2D222MELB50](#)
[LGG2D222MELC40](#) [LGG2D272MELC45](#) [LGG2D471MELZ25](#) [LGG2D561MELA25](#) [LGG2D561MELZ30](#)
[LGG2D681MELA30](#) [LGG2D681MELZ35](#) [LGG2D821MELA35](#) [LGG2D821MELB25](#) [LGG2D821MELZ40](#)
[LGG2E102MELA50](#) [LGG2E102MELB40](#) [LGG2E102MELC30](#) [LGG2E122MELB45](#) [LGG2E122MELC35](#)
[LGG2E152MELB50](#) [LGG2E152MELC40](#) [LGG2E182MELC45](#) [LGG2E391MELA25](#) [LGG2E391MELZ30](#)
[LGG2E471MELA30](#) [LGG2E471MELZ35](#) [LGG2E561MELA35](#) [LGG2E561MELB25](#) [LGG2E561MELZ40](#)
[LGG2E681MELB30](#) [LGG2E681MELZ45](#) [LGG2E821MELA45](#) [LGG2E821MELB35](#) [LGG2E821MELC30](#)
[LGG2G102MELC50](#) [LGG2G121MELZ25](#) [LGG2G181MELA25](#) [LGG2G181MELZ30](#) [LGG2G221MELA30](#)
[LGG2G221MELZ35](#) [LGG2G271MELA35](#) [LGG2G271MELB25](#) [LGG2G271MELZ40](#) [LGG2G331MELA40](#)
[LGG2G331MELB30](#) [LGG2G331MELC25](#) [LGG2G331MELZ50](#) [LGG2G391MELA45](#) [LGG2G391MELB35](#)
[LGG2G391MELC30](#) [LGG2G471MELA50](#) [LGG2G471MELB40](#) [LGG2G471MELC30](#) [LGG2G561MELB45](#)
[LGG2G561MELC35](#) [LGG2G681MELB50](#) [LGG2G681MELC40](#) [LGG2G821MELC45](#) [LGG2P102MELA45](#)
[LGG2P102MELB35](#) [LGG2P102MELC30](#) [LGG2P122MELB40](#) [LGG2P122MELC30](#) [LGG2P152MELB45](#)
[LGG2P152MELC35](#) [LGG2P182MELC40](#) [LGG2P222MELC50](#) [LGG2P331MELZ25](#) [LGG2P391MELZ30](#)