

GL

Screw Terminal Type, Long Life Series

LL
Long Life

- Screw terminal series in compact case sizes
- High reliability, long life guaranteed for 20000 hours load life at 85°C
- Suited for use in industrial power supplies for inverters
- Complied to the RoHS directive

GF → GL
Long life



| Item | Characteristics | |
|---|--|-----------------------------------|
| Operating temperature range | -25 ~ +85°C | |
| Capacitance tolerance | ±20% at 120Hz, 20°C | |
| Leakage current max. | $I=3\sqrt{CV}$ (μA) (after 5 minutes) | |
| Dissipation factor max. | 0.25 max. at 120Hz, 20°C | |
| Load life (after application of the rated voltage for 20000 hours at 85°C) | Leakage current | Less than specified value |
| | Capacitance change | Within ±30% of initial value |
| | tanδ | Less than 300% of specified value |
| Shelf life (at 85°C) | After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value. The measurement shall be performed at 20°C by the KS C IEC 60384 - 4 | |

● DRAWING (See page 203)

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

| WV Item μF | 350 | | 400 | | 450 | |
|------------------|--------------|---|--------------|---|--------------|---|
| | ØD×L (mm) | Ripple current (A rms) 85°C 120Hz | ØD×L (mm) | Ripple current (A rms) 85°C 120Hz | ØD×L (mm) | Ripple current (A rms) 85°C 120Hz |
| 1500 | | | | | 51 × 110 | 7.3 |
| 1800 | | | 51 × 110 | 8.2 | 51 × 130 | 8.7 |
| 2200 | 51 × 110 | 8.8 | 51 × 130 | 9.3 | 63.5 × 110 | 9.6 |
| 2700 | 51 × 130 | 10.3 | 63.5 × 110 | 10.8 | 63.5 × 130 | 11.3 |
| 3300 | 63.5 × 100 | 11.8 | 63.5 × 130 | 12.9 | 76.2 × 110 | 13.5 |
| 3900 | 63.5 × 110 | 13.0 | 76.2 × 100 | 15.0 | 76.2 × 130 | 15.3 |
| 4700 | 76.2 × 100 | 15.2 | 76.2 × 130 | 16.0 | 76.2 × 150 | 16.9 |
| 5600 | 76.2 × 110 | 18.3 | 76.2 × 150 | 18.3 | 76.2 × 160 | 21.8 |
| 6800 | 76.2 × 130 | 20.5 | 76.2 × 160 | 21.2 | 89 × 150 | 23.6 |
| 8200 | 76.2 × 150 | 23.5 | 89 × 150 | 24.6 | 89 × 160 | 26.5 |
| 10000 | 89 × 150 | 27.1 | 89 × 160 | 29.3 | | |
| 12000 | 89 × 160 | 32.2 | | | | |

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

| WV Frequency | 50Hz | 120Hz | 300Hz | 1kHz | 3kHz |
|-----------------|------|-------|-------|------|------|
| 350 ~ 450 | 0.8 | 1.0 | 1.1 | 1.3 | 1.4 |