

New!

GXL Series

- Long-Life version of GXE series
- For automobile modules and other high temperature applications
- Endurance with ripple current : 125°C 5000 to 10000 hours
- Solvent-proof type (see PRECAUTIONS AND GUIDELINES)
- RoHS Compliant

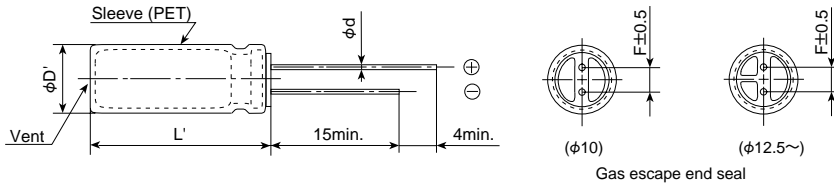


◆ SPECIFICATIONS

| Items | Characteristics | | | | | |
|--|--|---------------------------------------|------|------|------|------|
| Category | -40 to +125°C | | | | | |
| Temperature Range | -40 to +125°C | | | | | |
| Rated Voltage Range | 10 to 50V _{dc} | | | | | |
| Capacitance Tolerance | ±20% (M) (at 20°C, 120Hz) | | | | | |
| Leakage Current | I=0.03CV or 4μA, whichever is greater. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C, 1 minute) | | | | | |
| Dissipation Factor (tanδ) | Rated voltage (V _{dc}) | 10V | 16V | 25V | 35V | 50V |
| | tanδ (Max.) | 0.20 | 0.16 | 0.14 | 0.12 | 0.10 |
| | When nominal capacitance exceeds 1000μF, add 0.02 to the above value for each 1000μF increase. (at 20°C, 120Hz) | | | | | |
| Low Temperature Characteristics (Max. Impedance Ratio) | Rated voltage (V _{dc}) | 10V | 16V | 25V | 35V | 50V |
| | Z(-25°C)/Z(+20°C) | 3 | 2 | 2 | 2 | 2 |
| | Z(-40°C)/Z(+20°C) | 6 | 4 | 4 | 4 | 4 |
| (at 120Hz) | | | | | | |
| Endurance | The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 10000 hours (5000 hours for φ10) at 125°C. | | | | | |
| | Capacitance change | ≤±30% of the initial value | | | | |
| | D.F. (tanδ) | ≤±300% of the initial specified value | | | | |
| | Leakage current | ≤The initial specified value | | | | |
| Shelf Life | The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours at 125°C without voltage applied. | | | | | |
| | Capacitance change | ≤±30% of the initial value | | | | |
| | D.F. (tanδ) | ≤±300% of the initial specified value | | | | |
| | Leakage current | ≤The initial specified value | | | | |

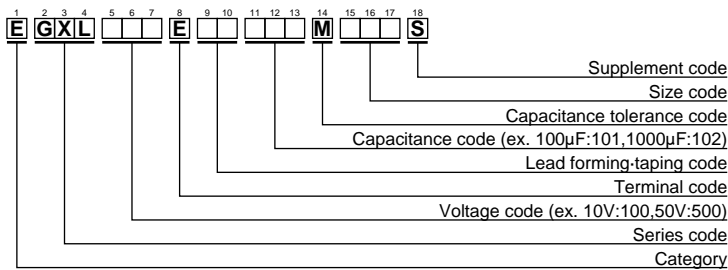
◆ DIMENSIONS [mm]

- Terminal Code : E



| | | | |
|-----|------------|------|-----|
| φD | 10 | 12.5 | 16 |
| φd | 0.6 | 0.6 | 0.8 |
| F | 5.0 | 5.0 | 7.5 |
| φD' | φD+0.5max. | | |
| L' | L+1.5max. | | |

◆ PART NUMBERING SYSTEM



Please refer to "A guide to global code (radial lead type)"

◆STANDARD RATINGS

| WV (Vdc) | Cap (μF) | Case size φD×L(mm) | Impedance (Ωmax/20°C, 100kHz) | Rated ripple current (mA rms/125°C, 100kHz) | Part No. |
|----------|----------|--------------------|-------------------------------|---|--------------------|
| 10 | 330 | 10 × 12.5 | 0.17 | 800 | EGXL100E□□331MJC5S |
| | 470 | 10 × 12.5 | 0.17 | 800 | EGXL100E□□471MJC5S |
| | 1000 | 10 × 20 | 0.094 | 1300 | EGXL100E□□102MJ20S |
| | 2200 | 12.5 × 25 | 0.055 | 2050 | EGXL100E□□222MK25S |
| | 3300 | 16 × 25 | 0.035 | 2500 | EGXL100E□□332ML25S |
| | 4700 | 16 × 31.5 | 0.027 | 3000 | EGXL100E□□472MLN3S |
| 16 | 220 | 10 × 12.5 | 0.17 | 800 | EGXL160E□□221MJC5S |
| | 330 | 10 × 12.5 | 0.17 | 800 | EGXL160E□□331MJC5S |
| | 470 | 10 × 16 | 0.12 | 1050 | EGXL160E□□471MJ16S |
| | 1000 | 12.5 × 20 | 0.067 | 1650 | EGXL160E□□102MK20S |
| | 2200 | 16 × 25 | 0.035 | 2500 | EGXL160E□□222ML25S |
| | 3300 | 16 × 31.5 | 0.027 | 3000 | EGXL160E□□332MLN3S |
| 25 | 220 | 10 × 12.5 | 0.17 | 800 | EGXL250E□□221MJC5S |
| | 330 | 10 × 16 | 0.12 | 1050 | EGXL250E□□331MJ16S |
| | 470 | 10 × 20 | 0.094 | 1300 | EGXL250E□□471MJ20S |
| | 1000 | 12.5 × 25 | 0.055 | 2050 | EGXL250E□□102MK25S |
| | 2200 | 16 × 31.5 | 0.027 | 3000 | EGXL250E□□222MLN3S |
| | 35 | 100 | 10 × 12.5 | 0.17 | 800 |
| 220 | | 10 × 16 | 0.12 | 1050 | EGXL350E□□221MJ16S |
| 330 | | 10 × 20 | 0.094 | 1300 | EGXL350E□□331MJ20S |
| 470 | | 12.5 × 20 | 0.067 | 1650 | EGXL350E□□471MK20S |
| 1000 | | 16 × 25 | 0.035 | 2500 | EGXL350E□□102ML25S |
| 50 | | 100 | 10 × 12.5 | 0.30 | 590 |
| | 220 | 10 × 20 | 0.19 | 970 | EGXL500E□□221MJ20S |
| | 330 | 12.5 × 20 | 0.11 | 1380 | EGXL500E□□331MK20S |
| | 470 | 12.5 × 25 | 0.085 | 1700 | EGXL500E□□471MK25S |
| | 1000 | 16 × 31.5 | 0.043 | 2490 | EGXL500E□□102MLN3S |

□□ : Lead forming / Taping code

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

| Capacitance(μF) | Frequency(Hz) | | | |
|-----------------|---------------|------|------|------|
| | 120 | 1k | 10k | 100k |
| 100 | 0.40 | 0.75 | 0.90 | 1.00 |
| 220~470 | 0.50 | 0.85 | 0.94 | 1.00 |
| 1000 | 0.60 | 0.87 | 0.95 | 1.00 |
| 2200~3300 | 0.75 | 0.90 | 0.95 | 1.00 |
| 4700 | 0.85 | 0.95 | 0.98 | 1.00 |