

GE Series

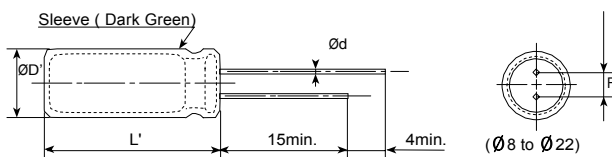
- Extremely long life+105°C 12,000 hours,+130°C 3,000hours
- Especially designed for electronic ballast
- Withstand high temperature+130°C and high ripple current
- RoHS Compliant



◆ SPECIFICATIONS

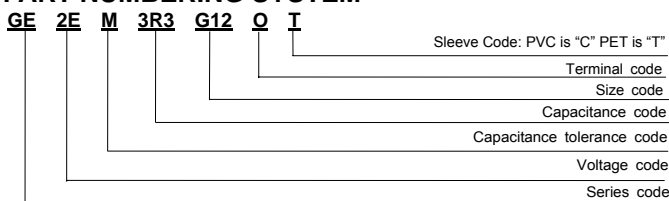
| Items | Characteristics | | | | | | |
|--|--|--------------------------------------|------|---|------|------|------|
| Category | -40 to +130°C (160 to 400V _{dc}) - 25 to +130°C (450V _{dc}) | | | | | | |
| Temperature Range | | | | | | | |
| Rated Voltage Range | 160 to 450V _{dc} | | | | | | |
| Capacitance Tolerance | ±20% (at 20°C, 120Hz) | | | | | | |
| Leakage Current | V=160~400 | V=450 | | Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) | | | |
| | I=0.02CV+10 μA | I=0.03CV+10 μA | | (at 20°C after 2 minutes) | | | |
| Dissipation Factor (tanδ) | Rated voltage (V _{dc}) | 160V | 200V | 250V | 350V | 400V | 450V |
| | tanδ (Max.) | 0.08 | | | | | 0.10 |
| Low Temperature Characteristics (Max. Impedance Ratio) | Rated voltage (V _{dc}) | 160V | 200V | 250V | 350V | 400V | 450V |
| | Z(-25°C)/Z(+20°C) | 3 | 3 | 3 | 5 | 5 | 6 |
| | Z(-40°C)/Z(+20°C) | 6 | 6 | 6 | 6 | 6 | -- |
| Endurance | After application of the rated DC voltage at 130°C 3,000hours or application of DC voltage with rated ripple current at 105°C 12,000hours, the capacitors shall meet the requirement below | | | | | | |
| | Capacitance change | ≤±20% of the initial value | | | | | |
| | D.F. (tanδ) | ≤200% of the initial specified value | | | | | |
| | Leakage current | ≤The initial specified value | | | | | |
| Shelf Life | After leaving capacitors under no load at 105°C for 1,000 hours, capacitors shall meet the requirement below | | | | | | |
| | Capacitance change | ≤±20% of the initial value | | | | | |
| | D.F. (tanδ) | ≤200% of the initial specified value | | | | | |
| | Leakage current | ≤500% The initial specified value | | | | | |

◆ DIMENSIONS [mm]



| ØD | 8 | 10 | 11 | 12.5 | 13 | 16 | 18 | 19 | 22 |
|-----|------------|-----|-----|------|-----|-----|-----|-----|------|
| Ød | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 | 0.8 | 0.8 |
| F | 3.5 | 5.0 | 5.0 | 5.0 | 5.0 | 7.5 | 7.5 | 7.5 | 10.5 |
| ØD' | ØD+0.5max. | | | | | | | | |
| L' | L+2max. | | | | | | | | |

◆ PART NUMBERING SYSTEM



※ Sleeve Code and Terminal Code should follow the part number system

◆ RATED RIPPLE CURRENT MULTIPLIERS

Frequency correction factor for ripple current (Hz)

| W.V | 120 | 1K | 10K | 100K |
|---------|-----|-----|-----|------|
| 160~450 | 0.5 | 0.8 | 0.9 | 1.0 |

The endurance of capacitors is shorted with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.