

CONDUCTIVE POLYMER HYBRID ALUMINUM ELECTROLYTIC CAPACITORS

GYE

Chip Type, 125°C High Reliability



NEW

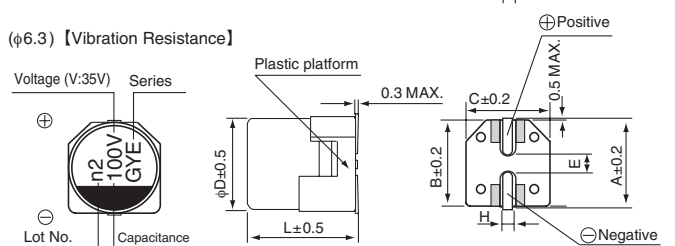
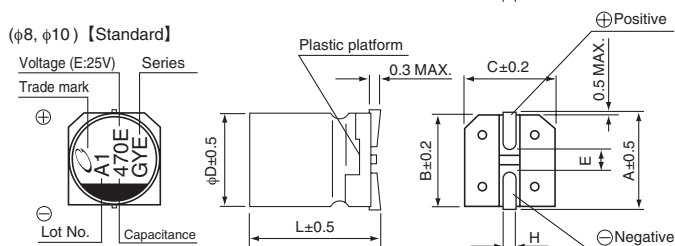
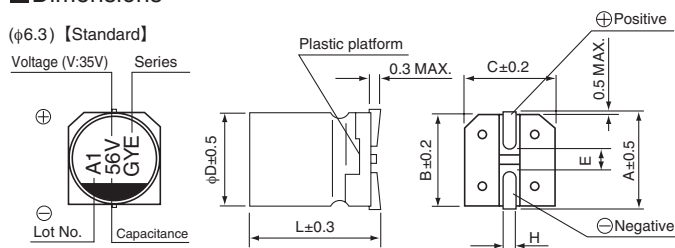
- High Reliability, Low ESR, High ripple current.
- Long life of 4000 hours at 125°C, High Capacitance.
- Compliant to the RoHS directive (2011/65/EU, (EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.



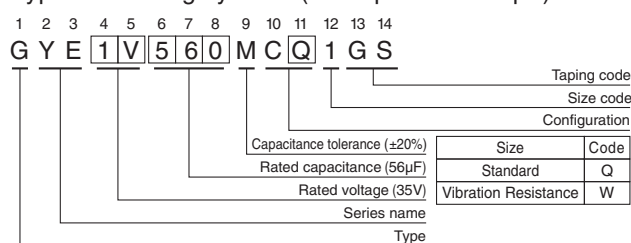
Specifications

| Item | Performance Characteristics | |
|---|---|---|
| Category Temperature Range | -55 to +125°C | |
| Rated Voltage Range | 25 to 35V | |
| Rated Capacitance Range | 56 to 470μF | |
| Capacitance Tolerance | ±20% at 120Hz, 20°C | |
| Tangent of loss angle (tan δ) | Rated voltage (V) | 25 35 |
| | tan δ (MAX.) | 0.14 0.12 |
| ESR | Less than or equal to the specified value at 100kHz, 20°C | |
| Leakage Current | After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01CV(μA). | |
| Temperature Characteristics (Max.Impedance Ratio) | Z-25°C / Z+20°C ≤ 2 | |
| | Z-55°C / Z+20°C ≤ 2.5 (100kHz) | |
| Endurance | Capacitance change | Within ±30% of initial capacitance value |
| | tan δ | 200% or less of the initial specified value |
| | ESR | 200% or less of 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 125°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 specified values for the endurance characteristics listed above. | |
| Damp Heat (Steady State) | Capacitance change | Within±30% of the initial capacitance value |
| | tan δ | 200% or less of the initial specified value |
| | Leakage current | Less than or equal to the initial specified value |
| Resistance to Soldering Heat | Capacitance change | Within±10% of the initial capacitance value |
| | tan δ | Less than or equal to the initial specified value |
| | Leakage current | Less than or equal to the initial specified value |
| Marking | Black print on the case top. | |

Dimensions



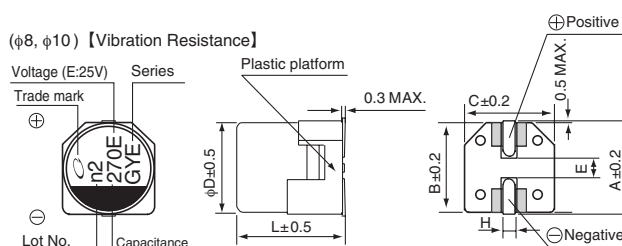
Type numbering system (Example : 35V 56μF)



| Standard | (mm) | | | |
|----------|------------|------------|------------|------------|
| | φ6.3x5.8 | φ6.3x7.7 | φ8x10 | φ10x10 |
| A | 7.3 | 7.3 | 9.0 | 11.0 |
| B | 6.6 | 6.6 | 8.3 | 10.3 |
| C | 6.6 | 6.6 | 8.3 | 10.3 |
| E | 2.2 | 2.2 | 3.1 | 4.5 |
| L | 5.8 | 7.7 | 10.3 | 10.3 |
| H | 0.5 to 0.8 | 0.5 to 0.8 | 0.8 to 1.1 | 0.8 to 1.1 |

| Vibration Resistance | (mm) | | |
|----------------------|------------|------------|------------|
| | φ6.3x7.7 | φ8x10 | φ10x10 |
| A | 7.3 | 9.0 | 11.0 |
| B | 6.6 | 8.3 | 10.3 |
| C | 6.6 | 8.3 | 10.3 |
| E | 2.2 | 3.1 | 4.5 |
| L | 7.7 | 10.5 | 10.5 |
| H | 0.5 to 0.8 | 1.1 to 1.5 | 1.1 to 1.5 |

| Voltage | V | 25 | 35 |
|---------|------|----|----|
| | Code | E | V |



● Frequency coefficient of rated ripple current

| Frequency | 120Hz | 1kHz | 10kHz | 100kHz or more |
|-------------|-------|------|-------|----------------|
| Coefficient | 0.15 | 0.40 | 0.75 | 1.00 |

Design, Specifications are subject to change without notice.

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GYE

■ Dimensions

| Rated Voltage (V) (code) | Rated Capacitance (μ F) | Case Size ϕ D \times L (mm) | tan δ | Leakage Current (μ A) (at 20°C after 2 minutes) | ESR (m Ω) MAX. (20°C/100kHz) | Rated Ripple (mA _{rms}) (125°C/100kHz) | Part Number |
|--------------------------------|---------------------------------|---------------------------------------|--------------|---|---|--|----------------|
| 25 (1E) | 68 | 6.3 \times 5.8 | 0.14 | 17 | 50 | 1100 | GYE1E680MCQ1GS |
| | 82 | 6.3 \times 5.8 | 0.14 | 20.5 | 50 | 1100 | GYE1E820MCQ1GS |
| | 150 | 6.3 \times 7.7 | 0.14 | 37.5 | 30 | 1700 | GYE1E151MC□1GS |
| | 270 | 8 \times 10 | 0.14 | 67.5 | 27 | 2000 | GYE1E271MC□1GS |
| | 470 | 10 \times 10 | 0.14 | 117.5 | 20 | 2400 | GYE1E471MC□1GS |
| 35 (1V) | 56 | 6.3 \times 5.8 | 0.12 | 19.6 | 60 | 1100 | GYE1V560MCQ1GS |
| | 100 | 6.3 \times 7.7 | 0.12 | 35 | 35 | 1700 | GYE1V101MC□1GS |
| | 180 | 8 \times 10 | 0.12 | 63 | 27 | 2000 | GYE1V181MC□1GS |
| | 330 | 10 \times 10 | 0.12 | 115.5 | 20 | 2400 | GYE1V331MC□1GS |

□ : Enter the appropriate configuration code.

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