

Surface Mount Type

SP-Cap

Series: **G**



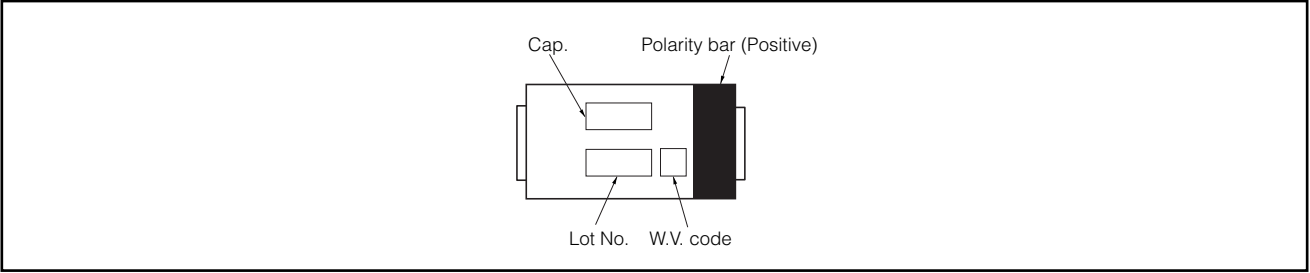
■ Features

- Super Low-ESR (3 mΩ)
- High temperature reflow soldering applicable  
(Peak : 260 °C 10s, main heating : 230 °C 40s)
- RoHS directive compliant

■ Specifications

|                       |                                                                                                                                                     |                                    |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| Category Temp. Range  | −40 °C to +105 °C                                                                                                                                   |                                    |
| Rated W.V.Range       | 2 V.DC to 2.5 V.DC                                                                                                                                  |                                    |
| Nominal Cap.Range     | 330 μF to 560 μF                                                                                                                                    |                                    |
| Capacitance Tolerance | ±20 % (120 Hz/+20 °C)                                                                                                                               |                                    |
| DC Leakage Current    | I ≤ 0.1 CV (μA) 2 minutes                                                                                                                           |                                    |
| tan δ                 | ≤ 0.06 (120 Hz/+20 °C)                                                                                                                              |                                    |
| Surge Voltage         | Rated Working Voltage × 1.25 (15 °C to 35 °C)                                                                                                       |                                    |
| Endurance             | After applying rated working voltage for 1000 hours at 105 °C±2 °C, and then being stabilized at +20 °C, capacitor shall meet the following limits. |                                    |
|                       | Capacitance change                                                                                                                                  | ±10% of initial measured value     |
|                       | tan δ                                                                                                                                               | ≤ Initial specified value          |
|                       | DC leakage current                                                                                                                                  | ≤ Initial specified value          |
| Moisture resistance   | After storing for 500 hours at 60 °C, 90 %                                                                                                          |                                    |
|                       | Capacitance change of initial measurd value                                                                                                         | 2 V.DC                             |
|                       |                                                                                                                                                     | +70, −20 %                         |
|                       | tan δ                                                                                                                                               | ≤ 200 % of initial specified value |
|                       | DC leakage current                                                                                                                                  | ≤ Initial specified value          |

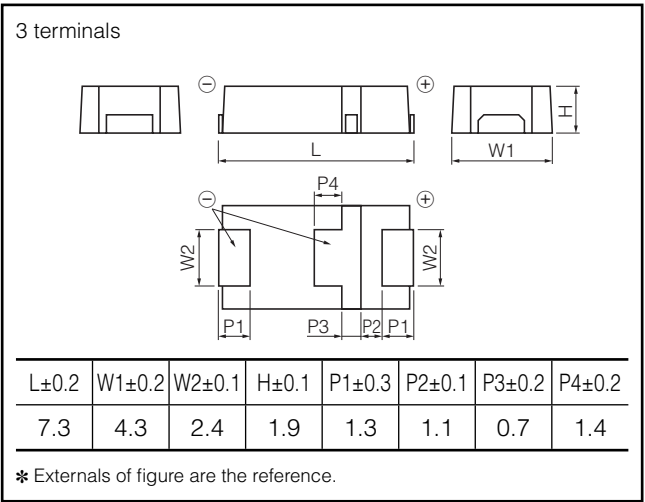
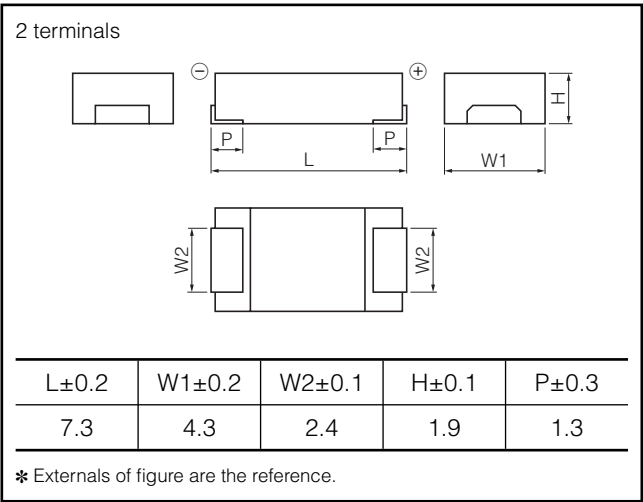
■ Marking



■ Dimensions in mm(not to scale)

(Unit : mm)

(Unit : mm)



### Standard Products

| Series &<br>Size Code | Rated<br>W.V.<br>(V.DC) | Capaci-<br>tance<br>(±20 %) (μF) | Case Size |           |           | Specification                        |                       | Part number                                   | The number<br>of<br>terminals |   | Min.<br>Packaging<br>Q'ty<br>(pcs) |
|-----------------------|-------------------------|----------------------------------|-----------|-----------|-----------|--------------------------------------|-----------------------|-----------------------------------------------|-------------------------------|---|------------------------------------|
|                       |                         |                                  | L<br>(mm) | W<br>(mm) | H<br>(mm) | *1<br>Ripple<br>current<br>(Ar.m.s.) | *2<br>ESR<br>(Ω max.) | *3<br>Reflow condition : 260 °C<br>[Proposal] |                               |   |                                    |
|                       |                         |                                  |           |           |           | 2                                    | 3                     |                                               |                               |   |                                    |
| GX                    | 2                       | 330                              | 7.3       | 4.3       | 1.9       | 4.0                                  | 0.003                 | EEFGX0D331R                                   | ○                             |   | 3500                               |
|                       |                         | 470                              | 7.3       | 4.3       | 1.9       | 4.0                                  | 0.003                 | EEFGX0D471R                                   | ○                             |   | 3500                               |
|                       |                         | 470                              | 7.3       | 4.3       | 1.9       | 4.0                                  | 0.003                 | EEFGX0D471L                                   |                               | ○ | 3500                               |
|                       |                         | 560                              | 7.3       | 4.3       | 1.9       | 4.0                                  | 0.003                 | EEFGX0D561R                                   | ○                             |   | 3500                               |
|                       |                         | 560                              | 7.3       | 4.3       | 1.9       | 4.0                                  | 0.003                 | EEFGX0D561L                                   |                               | ○ | 3500                               |
|                       | 2.5                     | 470                              | 7.3       | 4.3       | 1.9       | 4.0                                  | 0.003                 | EEFGX0E471R                                   | ○                             |   | 3500                               |
|                       |                         | 470                              | 7.3       | 4.3       | 1.9       | 4.0                                  | 0.003                 | EEFGX0E471L                                   |                               | ○ | 3500                               |
|                       |                         |                                  |           |           |           |                                      |                       |                                               |                               |   |                                    |

\*1: Ripple current (100 kHz/ +20 to +105 °C ), \*2: ESR (100 kHz/+20 °C)

\*3: Please refer to the page of "Mounting Specifications".

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