



**THE DATASHEET OF
GA352QR7GF151KW31L**



● Part Numbering

Safety Standard Certified Multilayer Ceramic Capacitors

(Part Number)

| | | | | | | | | |
|------------|-----------|----------|-----------|-----------|------------|----------|------------|----------|
| GA3 | 52 | Q | R7 | GF | 331 | K | W31 | L |
| ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ | ⑨ |

① Series

| Code | Series |
|------------|---|
| EVA | Safety Standard Certified Resin Molding SMD Type Multilayer Ceramic Capacitors for Automotive (Powertrain/Safety) |
| GA3 | Safety Standard Certified Chip Multilayer Ceramic Capacitors for Consumer Electronics & Industrial Equipment |
| KCA | Safety Standard Certified Metal Terminal Type Multilayer Ceramic Capacitors for Automotive (Powertrain/Safety) |

② Dimensions (L×W)

| Code | Dimensions (L×W) |
|-----------|------------------|
| 42 | 4.5×2.0mm |
| 43 | 4.5×3.2mm |
| 52 | 5.7×2.8mm |
| 55 | 5.7×5.0mm |
| 86 | 8.0×6.0mm |

As for KCA and EVA series, it represents the dimensions of the product body that does not include the metal terminal.

③ Dimensions (T)

| GA3 | | KCA, EVA | |
|----------|----------------------------------|----------|----------------|
| Code | Dimensions (T) | Code | Dimensions (T) |
| A | 1.0mm | L | 2.8mm |
| D | 2.0mm | Q | 3.7mm |
| E | 2.5mm | T | 4.8mm |
| Q | 1.5mm | W | 6.4mm |
| X | Depends on individual standards. | | |

④ Temperature Characteristics

| Temperature Characteristic Codes | | Temperature Characteristics | | | | Operating Temperature Range | Capacitance Change Each Temperature (%) | | | | | |
|----------------------------------|-----------------|-----------------------------|-------------------|---|---------------------|-----------------------------|---|------|-------|------|------|------|
| Code | Public STD Code | Reference Temperature | Temperature Range | Capacitance Change or Temperature Coefficient | -55°C | | *2 | | -10°C | | | |
| | | | | | Max. | | Min. | Max. | Min. | Max. | Min. | |
| 1X | SL | JIS | 20°C | 20 to 85°C | +350 to -1000ppm/°C | -55 to 125°C | - | - | - | - | - | - |
| 7U | U2J | EIA | 25°C | 25 to 125°C*1 | -750±120ppm/°C | -55 to 125°C | 8.78 | 5.04 | 6.04 | 3.47 | 3.84 | 2.21 |
| R7 | X7R | EIA | 25°C | -55 to 125°C | ±15% | -55 to 125°C | - | - | - | - | - | - |

*1 Rated Voltage 100Vdc max: 25 to 85°C

*2 -25°C (Reference Temperature 20°C) / -30°C (Reference Temperature 25°C)

⑤ Certified Type

| Code | Rated Voltage | Certified Type |
|-----------|--|----------------|
| GB | X2 : 250Vac | Type GB |
| GD | 250Vac | Type GD |
| GF | X1 : 250Vac/Y2 : 250Vac | Type GF |
| MF | X1 : 250Vac/1000Vdc Y2 : 250Vac/1000Vdc | Type MF |
| TF | X1 : 305Vac/1500Vdc Y2 : 305Vac/1500Vdc | Type TF |

⑥ Capacitance

Expressed by three-digit alphanumerics. The unit is pico-farad (pF). The first and second figures are significant digits, and the third figure expresses the number of zeros that follow the two numbers. If there is a decimal point, it is expressed by the capital letter "R." In this case, all figures are significant digits. If any letter, other than "R" is included, this indicates the specific part number is a non-standard part.

Ex.)

| Code | Capacitance |
|------------|-------------|
| R50 | 0.50pF |
| 1R0 | 1.0pF |
| 100 | 10pF |
| 103 | 10000pF |

⑦ Capacitance Tolerance

| Code | Capacitance Tolerance |
|----------|-----------------------|
| J | ±5% |
| K | ±10% |
| M | ±20% |

⑧ Individual Specification

Expressed by three figures.

⑨ Packaging

| Code | Packaging |
|----------|------------------------|
| L | ø180mm Embossed Taping |
| K | ø330mm Embossed Taping |

Please contact us if you find any part number not provided in this table.

Looking for pricing, stock, or lifecycle information?

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