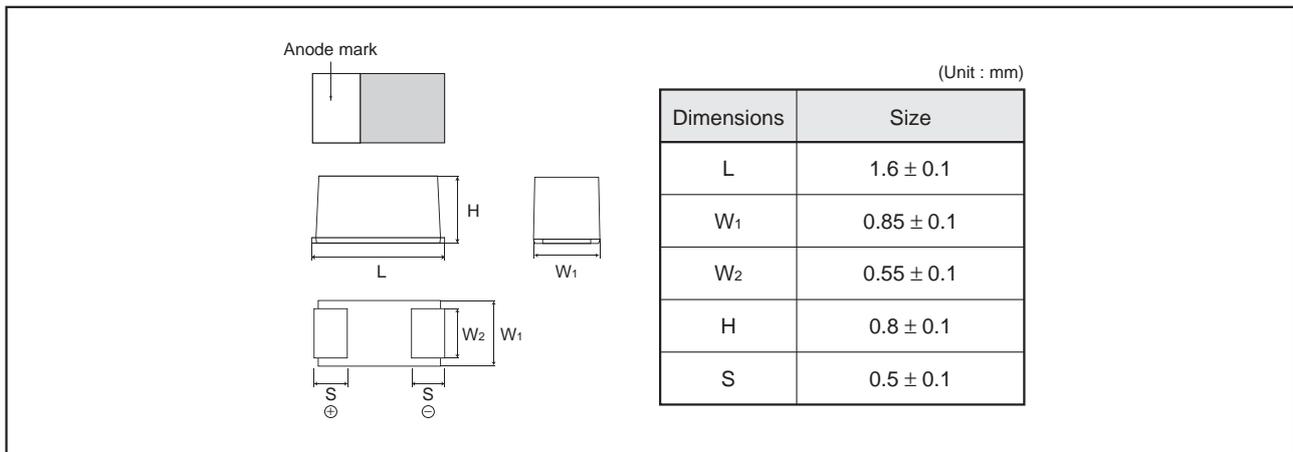


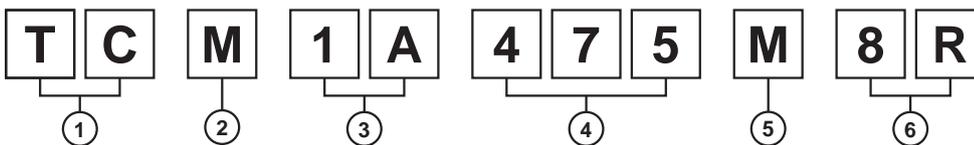
### ●Features

- 1) Bottom electrode configuration results in significantly greater compactness.
- 2) Fillet formation enables easy visibility after mounting.
- 3) Ideal for noise removal on power supply lines with limited space.
- 4) Eco-friendly halogen-free products.

### ●Dimensions



### ●Part No. Explanation



① Series name  
TC

② Case style  
M : 1608-09 (0603) size

③ Rated voltage

|                   |     |    |     |    |    |    |    |
|-------------------|-----|----|-----|----|----|----|----|
| Rated voltage (V) | 2.5 | 4  | 6.3 | 10 | 16 | 20 | 25 |
| CODE              | 0E  | 0G | 0J  | 1A | 1C | 1D | 1E |

④ Nominal capacitance  
Nominal capacitance in pF in 3 digits:  
2 significant figures followed by the figure  
representing the number of 0's.

⑤ Capacitance tolerance  
M : ± 20%

⑥ Taping  
8 : Tape width  
R : Positive electrode on the side opposite to sprocket hole

\*This specification has possibility of charge, due to underdevelopment product.  
Please ask for latest specification to our sales.

●Rated table

| Capacitance (μF) | Rated voltage (V.DC) |   |     |    |    |    |    |
|------------------|----------------------|---|-----|----|----|----|----|
|                  | 2.5                  | 4 | 6.3 | 10 | 16 | 20 | 25 |
| 1.0 (105)        |                      |   |     | M  | M  |    | M  |
| 1.5 (155)        |                      |   |     |    |    |    |    |
| 2.2 (225)        |                      |   |     | M  | M  | ☆M |    |
| 3.3 (335)        |                      |   |     |    |    |    |    |
| 4.7 (475)        |                      |   | M   | M  | ☆M |    |    |
| 10 (106)         |                      | M | M   | M  |    |    |    |
| 15 (156)         |                      |   |     |    |    |    |    |
| 22 (226)         |                      | M | M   |    |    |    |    |
| 33 (336)         |                      | M | M   |    |    |    |    |
| 47 (476)         | M                    |   |     |    |    |    |    |

Remark) Case size codes (M) in the above show products line-up.

☆ Under development

●Marking

The indications listed below should be given on the surface of a capacitor.

- (1) Polarity : The polarity should be shown by □ bar. (on the anode side)
- (2) Rated DC voltage : A voltage code is shown as below table.
- (3) Capacitance : A capacitance code is shown as below table.

| Voltage Code | Rated DC Voltage (V) |
|--------------|----------------------|
| e            | 2.5                  |
| g            | 4                    |
| j            | 6.3                  |
| A            | 10                   |
| C            | 16                   |
| D            | 20                   |
| E            | 25                   |

| Capacitance Code | Nominal Capacitance (μF) |
|------------------|--------------------------|
| A                | 1.0                      |
| E                | 1.5                      |
| J                | 2.2                      |
| N                | 3.3                      |
| S                | 4.7                      |
| a                | 10                       |
| e                | 15                       |
| j                | 22                       |
| n                | 33                       |
| s                | 47                       |

Visual typical example  
voltage code and capacitance code are variable with parts number.

[M case]

EX.)  $\frac{A}{(1)} \frac{s}{(2)}$   
(1) voltage code (2) capacitance code



●Characteristics

| Item   |   | Performance   | Test conditions (based on JIS C 5101-1 and JIS C 5101-3)  |              |       |      |   |         |          |   |            |              |   |         |          |   |            |              |
|--|---|---|---|--------------|-------|------|---|---------|----------|---|------------|--------------|---|---------|----------|---|------------|--------------|
| Operating Temperature                                  |   | -55°C to +125°C   | Voltage reduction when temperature exceeds +85°C  |              |       |      |   |         |          |   |            |              |   |         |          |   |            |              |
| Maximum operating temperature with no voltage derating |   | +85°C   |   |              |       |      |   |         |          |   |            |              |   |         |          |   |            |              |
| Rated voltage (V.DC)                                   |   | 2.5 4 6.3 10 16 20 25   | at 85°C   |              |       |      |   |         |          |   |            |              |   |         |          |   |            |              |
| Category voltage (V.DC)                                |   | 1.6 2.5 4 6.3 10 13 16  | at 125°C  |              |       |      |   |         |          |   |            |              |   |         |          |   |            |              |
| Surge voltage (V.DC)                                   |   | 3.2 5.2 8 13 20 26 32   | at 85°C   |              |       |      |   |         |          |   |            |              |   |         |          |   |            |              |
| DC Leakage current                                     |   | Shall be satisfied the value on " Standard list "                                     | As per 4.9 JIS C 5101-1<br>As per 4.5.1 JIS C 5101-3<br>Voltage : Rated voltage for 5min  |              |       |      |   |         |          |   |            |              |   |         |          |   |            |              |
| Capacitance tolerance                                  |   | Shall be satisfied allowance range. ±20%  | As per 4.7 JIS C 5101-1<br>As per 4.5.2 JIS C 5101-3<br>Measuring frequency : 120±12Hz<br>Measuring voltage : 0.5Vrms +1.5.DC<br>Measuring circuit : DC Equivalent series circuit   |              |       |      |   |         |          |   |            |              |   |         |          |   |            |              |
| Tangent of loss angle (Df, tan δ)                      |   | Shall be satisfied the value on " Standard list "                                     | As per 4.8 JIS C 5101-1<br>As per 4.5.3 JIS C 5101-3<br>Measuring frequency : 120±12Hz<br>Measuring voltage : 0.5Vrms +1.5.DC<br>Measuring circuit : DC Equivalent series circuit   |              |       |      |   |         |          |   |            |              |   |         |          |   |            |              |
| Impedance  |   | Shall be satisfied the value on " Standard list "                                     | As per 4.10 JIS C 5101-1<br>As per 4.5.4 JIS C 5101-3<br>Measuring frequency : 100±10kHz<br>Measuring voltage : 0.5Vrms or less<br>Measuring circuit : DC Equivalent series circuit   |              |       |      |   |         |          |   |            |              |   |         |          |   |            |              |
| Resistance to Soldering heat                           | Appearance  | There should be no significant abnormality. The indications should be clear.          | As per 4.14 JIS C 5101-1<br>As per 4.6 JIS C 5101-3<br>Dip in the solder bath<br>Solder temp : 260±5°C<br>Duration : 5±0.5s<br>Repetition : 1<br>After the specimens, leave it at room temperature for over 24h and then measure the sample.  |              |       |      |   |         |          |   |            |              |   |         |          |   |            |              |
|  | L.C.  | Less than 200% of initial limit   |   |              |       |      |   |         |          |   |            |              |   |         |          |   |            |              |
|  | ΔC / C  | TCM0J336M8R : Within ±30% of initial value.<br>Others : Within ±20% of initial value. |   |              |       |      |   |         |          |   |            |              |   |         |          |   |            |              |
|  | Df (tan δ)  | Less than 200% of initial limit   |   |              |       |      |   |         |          |   |            |              |   |         |          |   |            |              |
| Temperature cycle                                      | Appearance  | There should be no significant abnormality. The indications should be clear.          | As per 4.16 JIS C 5101-1<br>As per 4.10 JIS C 5101-3<br>Repetition : 5 cycles<br>(1 cycle : steps 1 to 4) without discontinuation.<br><table border="1" data-bbox="901 1294 1206 1451"> <thead> <tr> <th></th> <th>Temp.</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-55±3°C</td> <td>30±3min.</td> </tr> <tr> <td>2</td> <td>Room temp.</td> <td>3min.or less</td> </tr> <tr> <td>3</td> <td>125±2°C</td> <td>30±3min.</td> </tr> <tr> <td>4</td> <td>Room temp.</td> <td>3min.or less</td> </tr> </tbody> </table><br>After the specimens, leave it at room temperature for over 24h and then measure the sample. |              | Temp. | Time | 1 | -55±3°C | 30±3min. | 2 | Room temp. | 3min.or less | 3 | 125±2°C | 30±3min. | 4 | Room temp. | 3min.or less |
|  |   | Temp.   |   | Time         |       |      |   |         |          |   |            |              |   |         |          |   |            |              |
|  | 1   | -55±3°C   |   | 30±3min.     |       |      |   |         |          |   |            |              |   |         |          |   |            |              |
|  | 2   | Room temp.  |   | 3min.or less |       |      |   |         |          |   |            |              |   |         |          |   |            |              |
| 3  | 125±2°C   | 30±3min.  |   |              |       |      |   |         |          |   |            |              |   |         |          |   |            |              |
| 4  | Room temp.  | 3min.or less  |   |              |       |      |   |         |          |   |            |              |   |         |          |   |            |              |
| L.C.   | Less than 200% of initial limit   |   |   |              |       |      |   |         |          |   |            |              |   |         |          |   |            |              |
| ΔC / C   | TCM0J336M8R : Within ±30% of initial value.<br>Others : Within ±20% of initial value. |   |   |              |       |      |   |         |          |   |            |              |   |         |          |   |            |              |
| Df (tan δ)   | Less than 200% of initial limit   |   |   |              |       |      |   |         |          |   |            |              |   |         |          |   |            |              |
| Moisture resistance                                    | Appearance  | There should be no significant abnormality. The indications should be clear.          | As per 4.22 JIS C 5101-1<br>As per 4.12 JIS C 5101-3<br>After leaving the sample under such atmospheric condition that the temperature and humidity are 60±2°C and 90 to 95% RH, respectively, for 500±12h leave it at room temperature for over 24h and then measure the sample.   |              |       |      |   |         |          |   |            |              |   |         |          |   |            |              |
|  | L.C.  | Less than 200% of initial limit   |   |              |       |      |   |         |          |   |            |              |   |         |          |   |            |              |
|  | ΔC / C  | TCM0J336M8R : Within ±30% of initial value.<br>Others : Within ±20% of initial value. |   |              |       |      |   |         |          |   |            |              |   |         |          |   |            |              |
|  | Df (tan δ)  | Less than 200% of initial limit   |   |              |       |      |   |         |          |   |            |              |   |         |          |   |            |              |

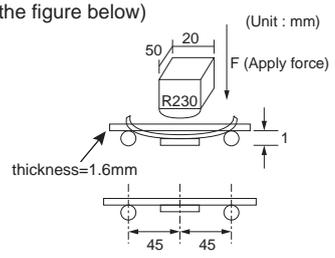
| Item                        | Performance        | Test conditions (based on JIS C 5101-1 and JIS C 5101-3)  |
|-----------------------------|--------------------|---|
| Temperature Stability       | Temp.              | -55°C   |
|                             | $\Delta C / C$     | TCM0G336M8R : Within 0/-30% of initial value<br>TCM0J226M8R : Within 0/-30% of initial value<br>TCM0J336M8R : Within 0/-30% of initial value<br>Others : Within 0/-15% of initial value                 |
|                             | Df (tan $\delta$ ) | Shall be satisfied the voltage on " Standard list "   |
|                             | L.C.               | -   |
|                             | Temp.              | +85°C   |
|                             | $\Delta C / C$     | TCM0G336M8R : Within +15/-5% of initial value<br>TCM0J226M8R : Within $\pm 15$ /-5% of initial value<br>TCM0J336M8R : Within $\pm 15$ /-5% of initial value<br>Others : Within +15/0% of initial value  |
|                             | Df (tan $\delta$ ) | Shall be satisfied the voltage on " Standard list "   |
|                             | L.C.               | Less than 1000% of initial value  |
|                             | Temp.              | +125°C  |
|                             | $\Delta C / C$     | TCM0G336M8R : Within +20/-5% of initial value<br>Others : Within +20/0% of initial value  |
| Surge voltage               | Appearance         | There should be no significant abnormality.   |
|                             | L.C.               | Less than 200% of initial limit   |
|                             | $\Delta C / C$     | Within $\pm 20$ % of initial value  |
|                             | Df (tan $\delta$ ) | Less than 200% of initial limit   |
| Loading at High temperature | Appearance         | There should be no significant abnormality.   |
|                             | L.C.               | Less than 200% of initial limit   |
|                             | $\Delta C / C$     | TCM0G336M8R : Within $\pm 30$ % of initial value<br>TCM0J226M8R : Within $\pm 30$ % of initial value<br>TCM0J336M8R : Within $\pm 30$ % of initial value<br>Others : Within $\pm 20$ % of initial value |
|                             | Df (tan $\delta$ ) | Less than 200% of initial limit   |
| Terminal strength           | Capacitance        | The measured value should be stable.  |
|                             | Appearance         | There should be no significant abnormality.   |

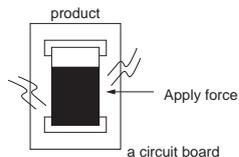
As per 4.29 JIS C 5101-1  
As per 4.13 JIS C 5101-3

As per 4.26 JIS C 5101-1  
As per 4.14 JIS C 5101-3  
Apply the specified surge voltage every 5 $\pm$ 0.5 min. for 30 $\pm$ 5 s. each time in the atmospheric condition of 85 $\pm$ 2°C. Repeat this procedure 1,000 times.  
After the specimens, leave it at room temperature for over 24h and then measure the sample.

As per 4.23 JIS C 5101-1  
As per 4.15 JIS C 5101-3  
After applying the rated voltage for 1000+36/0 h without discontinuation via the serial resistance of 3 $\Omega$  or less at a temperature of 85 $\pm$ 2°C, leave the sample at room temperature / humidity for over 24h and measure the value.

As per 4.35 JIS C 5101-1  
As per 4.9 JIS C 5101-3  
A force is applied to the terminal until it bends to 1mm and by a prescribed tool maintain the condition for 5s.  
(See the figure below)

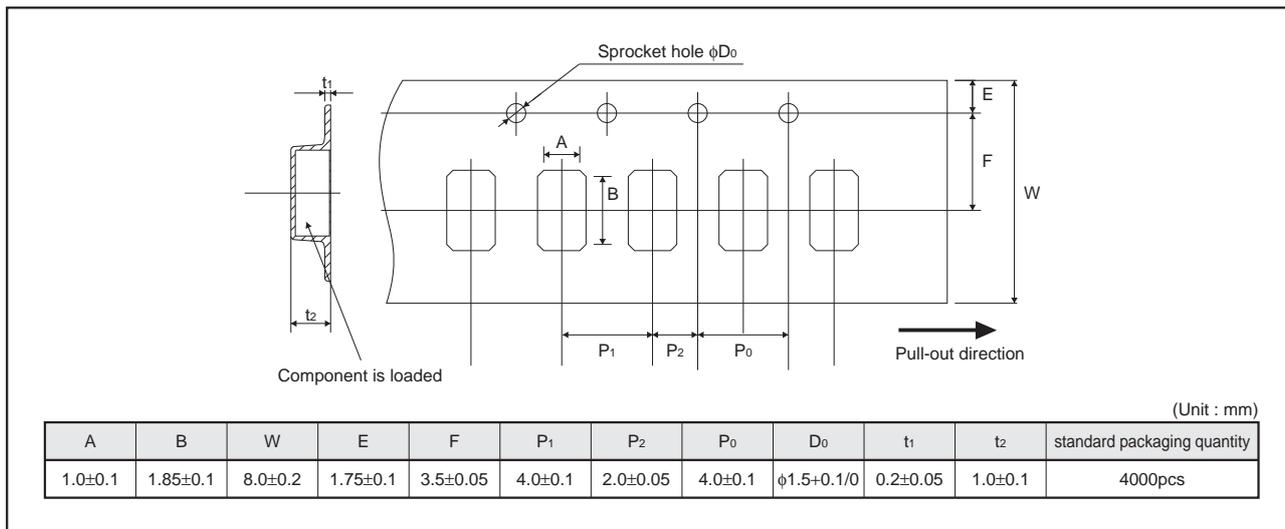


| Item                   | Performance  | Test conditions (JIS C 5101-1 and JIS C 5101-3)   |
|------------------------|--|---|
| Adhesiveness           | The terminal should not come off.  | As per 4.34 JIS C 5101-1<br>As per 4.8 JIS C 5101-3<br>Apply force of 5N in the two directions shown in the figure below for 10±1s after mounting the terminal on a circuit board.<br> |
| Dimensions             | Refer to "External dimensions"   | Measure using a caliper of JIS B 7507 Class 2 or higher grade.  |
| Resistance to solvents | The indication should be clear   | As per 4.32 JIS C 5101-1<br>As per 4.18 JIS C 5101-3<br>Dip in the isopropyl alcohol for 30±5s, at room temperature.  |
| Solderability          | 3/4 or more surface area of the solder coated terminal dipped in the soldering bath should be covered with the new solder. | As per 4.15.2 JIS C 5101-1<br>As per 4.7 JIS C 5101-3<br>Dip speed=25±2.5mm / s<br>Pre-treatment(accelerated aging): Leave the sample on the boiling distilled water for 1 h.<br>Solder temp. : 245±5°C<br>Duration : 3±0.5s<br>Solder : M705<br>Flux : Rosin 25% IPA 75% |
| Vibration              | Capacitance  | Measure value should not fluctuate during the measurement.  |
|                        | Appearance   | There should be no significant abnormality.   |
|                        |  | As per 4.17 JIS C 5101-1<br>Frequency : 10 to 55 to 10Hz/min.<br>Amplitude : 1.5mm<br>Time : 2h each in X and Y directions<br>Mounting : The terminal is soldered on a print circuit board.   |

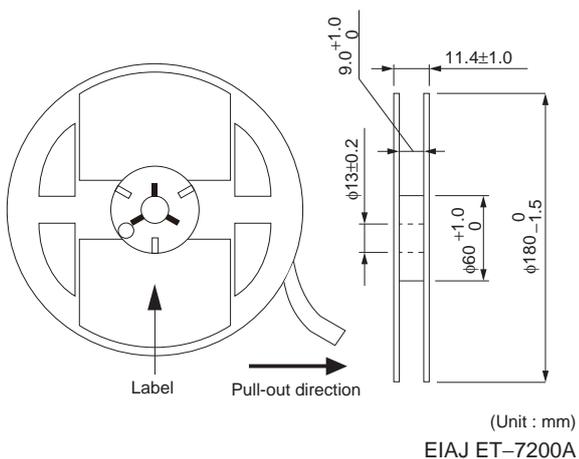
●Standard products list

| Part No.        | Rated voltage<br>85°C<br>(V) | Category voltage<br>125°C<br>(V) | Surge voltage<br>85°C<br>(V) | Cap.<br>120Hz<br>(μF) | Tolerance<br>(%) | Leakage current<br>25°C<br>1WV.300s<br>(μA) | Df<br>120Hz<br>(%) |              |       | Impedance<br>100kHz<br>(Ω) |
|-----------------|------------------------------|----------------------------------|------------------------------|-----------------------|------------------|---|--------------------|--------------|-------|----------------------------|
|                 |                              |                                  |                              |                       |                  |   | -55°C              | 25°C<br>85°C | 125°C |                            |
| TC M 0E 476 M8R | 2.5                          | 1.6                              | 3.2                          | 4.7                   | ± 20             | 0.5   | 30                 | 20           | 30    | 9.0                        |
| TC M 0G 106 M8R | 4                            | 2.5                              | 5                            | 10                    | ± 20             | 0.5   | 30                 | 20           | 30    | 9.0                        |
| TC M 0G 226 M8R | 4                            | 2.5                              | 5                            | 22                    | ± 20             | 0.9   | 30                 | 20           | 30    | 9.0                        |
| TC M 0G 336 M8R | 4                            | 2.5                              | 5                            | 33                    | ± 20             | 13.0  | 60                 | 30           | 40    | 9.0                        |
| TC M 0J 475 M8R | 6.3                          | 4                                | 8                            | 4.7                   | ± 20             | 0.5   | 30                 | 20           | 30    | 9.0                        |
| TC M 0J 106 M8R | 6.3                          | 4                                | 8                            | 10                    | ± 20             | 0.6   | 30                 | 20           | 30    | 9.0                        |
| TC M 0J 226 M8R | 6.3                          | 4                                | 8                            | 22                    | ± 20             | 13.0  | 60                 | 30           | 40    | 9.0                        |
| TC M 0J 336 M8R | 6.3                          | 4                                | 8                            | 33                    | ± 20             | 208   | 60                 | 30           | 40    | 9.0                        |
| TC M 1A 105 M8R | 10                           | 6.3                              | 13                           | 1.0                   | ± 20             | 0.5   | 15                 | 10           | 15    | 15.0                       |
| TC M 1A 225 M8R | 10                           | 6.3                              | 13                           | 2.2                   | ± 20             | 0.5   | 30                 | 20           | 30    | 13.5                       |
| TC M 1A 475 M8R | 10                           | 6.3                              | 13                           | 4.7                   | ± 20             | 0.5   | 30                 | 20           | 30    | 9.0                        |
| TC M 1A 106 M8R | 10                           | 6.3                              | 13                           | 10                    | ± 20             | 10.0  | 30                 | 20           | 30    | 9.0                        |
| TC M 1C 105 M8R | 16                           | 10                               | 20                           | 1.0                   | ± 20             | 0.5   | 15                 | 10           | 15    | 15.0                       |
| TC M 1C 225 M8R | 16                           | 10                               | 20                           | 2.2                   | ± 20             | 0.5   | 30                 | 20           | 30    | 13.5                       |
| TC M 1E 105 M8R | 25                           | 16                               | 32                           | 1.0                   | ± 20             | 0.5   | -                  | 10           | -     | 10                         |

●Packaging specifications



●Reel dimensions



# Notice

## Precaution on using ROHM Products

- Our Products are designed and manufactured for application in ordinary electronic equipments (such as AV equipment, OA equipment, telecommunication equipment, home electronic appliances, amusement equipment, etc.). If you intend to use our Products in devices requiring extremely high reliability (such as medical equipment <sup>(Note 1)</sup>, transport equipment, traffic equipment, aircraft/spacecraft, nuclear power controllers, fuel controllers, car equipment including car accessories, safety devices, etc.) and whose malfunction or failure may cause loss of human life, bodily injury or serious damage to property ("Specific Applications"), please consult with the ROHM sales representative in advance. Unless otherwise agreed in writing by ROHM in advance, ROHM shall not be in any way responsible or liable for any damages, expenses or losses incurred by you or third parties arising from the use of any ROHM's Products for Specific Applications.

(Note1) Medical Equipment Classification of the Specific Applications

| JAPAN     | USA       | EU         | CHINA     |
|-----------|-----------|------------|-----------|
| CLASS III | CLASS III | CLASS II b | CLASS III |
| CLASS IV  |           | CLASS III  |           |

- ROHM designs and manufactures its Products subject to strict quality control system. However, semiconductor products can fail or malfunction at a certain rate. Please be sure to implement, at your own responsibilities, adequate safety measures including but not limited to fail-safe design against the physical injury, damage to any property, which a failure or malfunction of our Products may cause. The following are examples of safety measures:
  - Installation of protection circuits or other protective devices to improve system safety
  - Installation of redundant circuits to reduce the impact of single or multiple circuit failure
- Our Products are designed and manufactured for use under standard conditions and not under any special or extraordinary environments or conditions, as exemplified below. Accordingly, ROHM shall not be in any way responsible or liable for any damages, expenses or losses arising from the use of any ROHM's Products under any special or extraordinary environments or conditions. If you intend to use our Products under any special or extraordinary environments or conditions (as exemplified below), your independent verification and confirmation of product performance, reliability, etc. prior to use, must be necessary:
  - Use of our Products in any types of liquid, including water, oils, chemicals, and organic solvents
  - Use of our Products outdoors or in places where the Products are exposed to direct sunlight or dust
  - Use of our Products in places where the Products are exposed to sea wind or corrosive gases, including Cl<sub>2</sub>, H<sub>2</sub>S, NH<sub>3</sub>, SO<sub>2</sub>, and NO<sub>2</sub>
  - Use of our Products in places where the Products are exposed to static electricity or electromagnetic waves
  - Use of our Products in proximity to heat-producing components, plastic cords, or other flammable items
  - Sealing or coating our Products with resin or other coating materials
  - Use of our Products without cleaning residue of flux (even if you use no-clean type fluxes, cleaning residue of flux is recommended); or Washing our Products by using water or water-soluble cleaning agents for cleaning residue after soldering
  - Use of the Products in places subject to dew condensation
- The Products are not subject to radiation-proof design.
- Please verify and confirm characteristics of the final or mounted products in using the Products.
- In particular, if a transient load (a large amount of load applied in a short period of time, such as pulse. is applied, confirmation of performance characteristics after on-board mounting is strongly recommended. Avoid applying power exceeding normal rated power; exceeding the power rating under steady-state loading condition may negatively affect product performance and reliability.
- De-rate Power Dissipation (Pd) depending on Ambient temperature (Ta). When used in sealed area, confirm the actual ambient temperature.
- Confirm that operation temperature is within the specified range described in the product specification.
- ROHM shall not be in any way responsible or liable for failure induced under deviant condition from what is defined in this document.

## Precaution for Mounting / Circuit board design

- When a highly active halogenous (chlorine, bromine, etc.) flux is used, the residue of flux may negatively affect product performance and reliability.
- In principle, the reflow soldering method must be used on a surface-mount products, the flow soldering method must be used on a through hole mount products. If the flow soldering method is preferred on a surface-mount products, please consult with the ROHM representative in advance.

For details, please refer to ROHM Mounting specification

**Precautions Regarding Application Examples and External Circuits**

1. If change is made to the constant of an external circuit, please allow a sufficient margin considering variations of the characteristics of the Products and external components, including transient characteristics, as well as static characteristics.
2. You agree that application notes, reference designs, and associated data and information contained in this document are presented only as guidance for Products use. Therefore, in case you use such information, you are solely responsible for it and you must exercise your own independent verification and judgment in the use of such information contained in this document. ROHM shall not be in any way responsible or liable for any damages, expenses or losses incurred by you or third parties arising from the use of such information.

**Precaution for Electrostatic**

This Product is electrostatic sensitive product, which may be damaged due to electrostatic discharge. Please take proper caution in your manufacturing process and storage so that voltage exceeding the Products maximum rating will not be applied to Products. Please take special care under dry condition (e.g. Grounding of human body / equipment / solder iron, isolation from charged objects, setting of Ionizer, friction prevention and temperature / humidity control).

**Precaution for Storage / Transportation**

1. Product performance and soldered connections may deteriorate if the Products are stored in the places where:
  - [a] the Products are exposed to sea winds or corrosive gases, including Cl<sub>2</sub>, H<sub>2</sub>S, NH<sub>3</sub>, SO<sub>2</sub>, and NO<sub>2</sub>
  - [b] the temperature or humidity exceeds those recommended by ROHM
  - [c] the Products are exposed to direct sunshine or condensation
  - [d] the Products are exposed to high Electrostatic
2. Even under ROHM recommended storage condition, solderability of products out of recommended storage time period may be degraded. It is strongly recommended to confirm solderability before using Products of which storage time is exceeding the recommended storage time period.
3. Store / transport cartons in the correct direction, which is indicated on a carton with a symbol. Otherwise bent leads may occur due to excessive stress applied when dropping of a carton.
4. Use Products within the specified time after opening a humidity barrier bag. Baking is required before using Products of which storage time is exceeding the recommended storage time period.

**Precaution for Product Label**

QR code printed on ROHM Products label is for ROHM's internal use only.

**Precaution for Disposition**

When disposing Products please dispose them properly using an authorized industry waste company.

**Precaution for Foreign Exchange and Foreign Trade act**

Since concerned goods might be fallen under listed items of export control prescribed by Foreign exchange and Foreign trade act, please consult with ROHM in case of export.

**Precaution Regarding Intellectual Property Rights**

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TCM0G106M8R - Web Page

|                             |             |
|-----------------------------|-------------|
| Part Number                 | TCM0G106M8R |
| Package                     | TCM         |
| Unit Quantity               | 4000        |
| Minimum Package Quantity    | 4000        |
| Packing Type                | Taping      |
| Constitution Materials List | inquiry     |
| RoHS                        | Yes         |