

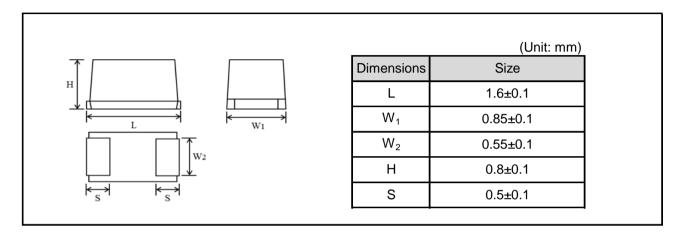
Chip tantalum capacitors (Bottom surface electrode type : Large capacitance)

TC series M case Datasheet

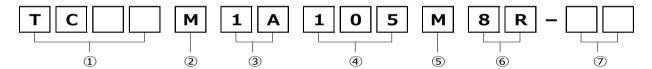
Features

- 1) Bottom electrode configuration results in significantly greater compactness.
- 2) Filet 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: 1608-1608(09)size

3 Rated voltage

Rated voltage(V)
2.5
4
6.3
10
16
20
25
35
50

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

7 Discrimination code

Rated table

Impedance(Ω)

Capa	citance	Rated voltage (V.DC)								
(µF)		2.5	4	6.3	10	16	20	25	35	50
1.0	(105)					15		10		
2.2	(225)				13.5	13.5				
3.3	(335)									
4.7	(475)			9	9					
6.8	(685)									
10	(106)			9	9					
15	(156)									
22	(226)		9	9						
33	(336)			9						
47	(476)									
68	(686)									
100	(107)									
150	(157)									
220	(227)									

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)
е	2.5
g	4
j	6.3
Α	10
С	16
D	20
E	25
V	35
Н	50

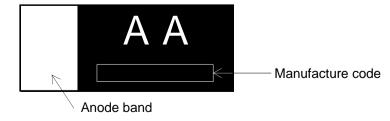
Capacitance	Nominal	Capacitance	Nominal
Code	Capacitance (µF)	Code	Capacitance (µF)
<u>E</u>	0.15	е	15
<u>N</u>	0.33	j	22
<u>S</u>	0.47	n	33
Α	1.0	S	47
E	1.5	w	68
J	2.2	a	100
N	3.3	Φ	150
S	4.7	ij	220
W	6.8	c	330
а	10	s	470

Visual typical example

voltage code and capacitance code are variable with parts number.

[TC series M case]

- (1) voltage code
- (2) capacitance code



Characteristics

Item		Performance	Test conditions (based on JIS C 5101-1 and JIS C 5101-3)			
Operating Temp	erature	-55°C~+125°C	Voltage reduction when temperature exceeds +85°C			
Maximum operatemperature with voltage derating	n no	+85℃				
Rated voltage (V		Refer to " Standard list ".	at 85℃			
Category voltage		Refer to " Standard list ".	at 125°C			
Surge voltage (V	/.DC)	Refer to " Standard list ".	at 85℃			
DC Leakage cur	rent	Shall be satisfied the value on standard list ".	As per 4.9 JIS C 5101-1 As per 4.5.1 JIS C 5101-3 Voltage: Rated voltage for 5min			
Capacitance tole	erance	Shall be satisfied allowance range. ±20%	As per 4.7 JIS C 5101-1 As per 4.5.2 JIS C 5101-3 Measuring frequency :120 ± 12Hz Measuring voltage :0.5Vrms + 1.5V.DC Measuring circuit :DC Equivalent series cir			
Tangent of loss ((Df,tanδ)	angle	Shall be satisfied the value on "Standard list ".	As per 4.8 JIS C 5101-1 As per 4.5.3 JIS C 5101-3 Measuring frequency :120 ± 12Hz Measuring voltage :0.5Vrms + 1.5V.DC Measuring circuit :DC Equivalent series circu			
Impedance		Shall be satisfied the value on "Standard list ".	As per 4.10 JIS C 5101-1 As per 4.5.4 JIS C 5101-3 Measuring frequency :100 ± 10kHz Measuring voltage :0.5Vrms or less Measuring circuit :DC Equivalent series circu			
Resistance to	Appe-	There should be no significant	As per 4.14 JIS C 5101-1			
Soldering	arance	abnormality.	As per 4.6 JIS C 5101-3			
heat		The indications should be clear.	Dip in the solder bath			
	L.C.	Less than 200% of initial limit.	Solder temp :240 \pm 5°C Duration :10 \pm 0.5s			
	⊿C/C	Within ±30% of initial value.	Repetition :1 After the specimens, leave it at room temperature			
	DF (tanδ)	Less than 200% of initial limit.	for over 24h and then measure the sample.			
Temperature cycle	Appe- arance	There should be no significant abnormality. The indications should be clear.	As per 4.16 JIS C 5101-1 As per 4.10 JIS C 5101-3 Repetition : 5 cycles			
	L.C.	Less than 200% of initial limit.	(1 cycle : steps 1 to 4) without discontinuation.			
	⊿C/C	Within ±30% of initial value.	Temp. Time 1 -55±3℃ 30±3min			
	DF (tanδ)	Less than 200% of initial limit.	2 Room Temp. 3min or less 3 125±2℃ 30±3min 4 Room Temp. 3min or less			
			After the specimens, leave it at room temperature for over 24h and then measure the sample.			

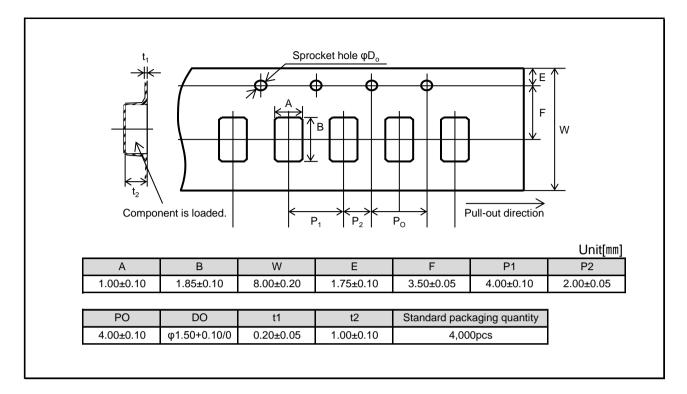
Iten	n	Performance	Test conditions (based on JIS C 5101-3)				
Moisture	Appe-	There should be no significant	As per 4.22 JIS C 5101-1				
resistance	arance	abnormality.	As per 4.12 JIS C 5101-3				
10010101100		The indications should be clear.	After leaving the sample under such atmospheric				
	L.C.	Less than 200% of initial limit.	condition that the temperature and humidity are				
		2000 than 20070 or militar milit.	60±2°C and 90 to 95% RH, respectively, for				
	⊿C/C	Within ±30% of initial value.	500+12/0h leave it at room temperature for				
	20/0	Within 20070 of finitial value.	over 24h and then measure the sample.				
	DF	Less than 200% of initial limit.	evol 2 m and them measure the sample.				
	(tanδ)						
Temperature	Temp.:-	.55°C	As per 4.29 JIS C 5101-1				
Stability	⊿C/C	Within 0/-30% of initial value.	As per 4.13 JIS C 5101-3				
Clability	20/0	VVIIIII 0/ 00/0 of finitial value.	7.6 por 1.10 0.0 0 0101 0				
	DF	Shall be satisfied the value on	- 				
	(tanδ)	" Standard list "					
	L.C.	_					
	Temp.:-	+85°C					
	⊿C/C	Within +15/-5% of initial value.					
	DF	Shall be satisfied the value on					
	(tanδ)	" Standard list "					
	L.C.	Less than 1000% of initial limit.					
	<u> </u>	10505					
	Temp. : -		- 				
	⊿C/C	Within +20/-5% of initial value.					
	DF	Shall be satisfied the value on	\dashv				
	(tanδ)	" Standard list "					
	L.C.	Less than 1250% of initial limit.	-				
Surge	Appe-	There should be no significant	As per 4.26JIS C 5101-1				
voltage	arance	abnormality.	As per 4.14JIS C 5101-3				
		The indications should be clear.	Apply the specified surge voltage via the serial				
	L.C.	Less than 200% of initial limit.	resistance of $1k\Omega$ ever 5 ± 0.5 min. for 30 ± 5 s.				
			each time in the atmospheric condition of				
	⊿C/C	Within ±20% of initial value.	85±2°C. Repeat this procedure 1,000 times.				
			After the specimens, leave it at room temperature				
	DF	Less than 200% of initial limit.	for over 24h and then measure the sample.				
	(tanδ)						
Loading at	Appe-	There should be no significant	As per 4.23 JIS C 5101-1				
High	arance	abnormality.	As per 4.15 JIS C 5101-3				
temperature		The indications should be clear.	After applying the rated voltage for 1000+36/0 h				
	L.C.	Less than 200% of initial limit.	without discontinuation via the serial resistance				
			of 3Ω or less at a temperature of 85±2°C, leave				
	⊿C/C	Within ±30% of initial value.	the sample at room temperature / humidity for				
			over 24h and measure the value.				
	DF	Less than 200% of initial limit.					
	(tanδ)	1					

Item		Performance	Test conditions			
T	Cono	The control of the could be	(based on JIS C 5101-1 and JIS C 5101-3)			
Terminal	Capa-	The measured value should be	As per 4.35 JIS C 5101-1			
strength	citance	stable.	As per 4.9 JIS C 5101-3			
	Appe-	There should be no significant	A force is applied to the terminal until it bends to			
	arance	abnormality.	1mm and by a prescribed tool maintains the			
			condition for 5s.			
			(See the figure below)			
			F(Apply force) R230 Thickness=1.6mm			
Adhesiveness		The terminal should not come off.	As per 4.34 JIS C 5101-1			
		and terminal errodict field control offi	As per 4.8 JIS C 5101-3			
			Apply force of 2N in the two directions shown in			
			the figure below for 10±1s after mounting the			
			terminal on a circuit board.			
			Apply force A circuit board			
Dimensions		Refer to "External dimensions".	Measure using a caliper of JIS B 7507 Class			
			2 or higher grade.			
Resistance to		Refer to "External dimensions". The indication should be clear.	2 or higher grade. As per 4.32 JIS C 5101-1			
Resistance to			2 or higher grade. As per 4.32 JIS C 5101-1 As per 4.18 JIS C 5101-3			
Resistance to			2 or higher grade. As per 4.32 JIS C 5101-1 As per 4.18 JIS C 5101-3 Dip in the isopropyl alcohol for 30±5s, at room			
Resistance to solvents		The indication should be clear.	2 or higher grade. As per 4.32 JIS C 5101-1 As per 4.18 JIS C 5101-3 Dip in the isopropyl alcohol for 30±5s, at room temperature.			
Resistance to solvents		The indication should be clear. 3/4 or more surface area of the	2 or higher grade. As per 4.32 JIS C 5101-1 As per 4.18 JIS C 5101-3 Dip in the isopropyl alcohol for 30±5s, at room temperature. As per 4.15.2 JIS C 5101-1			
		The indication should be clear. 3/4 or more surface area of the solder coated terminal dipped in	2 or higher grade. As per 4.32 JIS C 5101-1 As per 4.18 JIS C 5101-3 Dip in the isopropyl alcohol for 30±5s, at room temperature. As per 4.15.2 JIS C 5101-1 As per 4.7 JIS C 5101-3			
Resistance to solvents		The indication should be clear. 3/4 or more surface area of the solder coated terminal dipped in the soldering bath should be	2 or higher grade. As per 4.32 JIS C 5101-1 As per 4.18 JIS C 5101-3 Dip in the isopropyl alcohol for 30±5s, at room temperature. As per 4.15.2 JIS C 5101-1 As per 4.7 JIS C 5101-3 Dip speed=25±2.5mm / s			
Resistance to solvents		The indication should be clear. 3/4 or more surface area of the solder coated terminal dipped in	2 or higher grade. As per 4.32 JIS C 5101-1 As per 4.18 JIS C 5101-3 Dip in the isopropyl alcohol for 30±5s, at room temperature. As per 4.15.2 JIS C 5101-1 As per 4.7 JIS C 5101-3 Dip speed=25±2.5mm / s Pre-treatment (accelerated aging):			
Resistance to solvents		The indication should be clear. 3/4 or more surface area of the solder coated terminal dipped in the soldering bath should be	2 or higher grade. As per 4.32 JIS C 5101-1 As per 4.18 JIS C 5101-3 Dip in the isopropyl alcohol for 30±5s, at room temperature. As per 4.15.2 JIS C 5101-1 As per 4.7 JIS C 5101-3 Dip speed=25±2.5mm / s			
Resistance to solvents		The indication should be clear. 3/4 or more surface area of the solder coated terminal dipped in the soldering bath should be	2 or higher grade. As per 4.32 JIS C 5101-1 As per 4.18 JIS C 5101-3 Dip in the isopropyl alcohol for 30±5s, at room temperature. As per 4.15.2 JIS C 5101-1 As per 4.7 JIS C 5101-3 Dip speed=25±2.5mm / s Pre-treatment (accelerated aging): Leave the sample on the boiling distilled water for 1h.			
Resistance to solvents		The indication should be clear. 3/4 or more surface area of the solder coated terminal dipped in the soldering bath should be	2 or higher grade. As per 4.32 JIS C 5101-1 As per 4.18 JIS C 5101-3 Dip in the isopropyl alcohol for 30±5s, at room temperature. As per 4.15.2 JIS C 5101-1 As per 4.7 JIS C 5101-3 Dip speed=25±2.5mm / s Pre-treatment (accelerated aging): Leave the sample on the boiling distilled water for 1h. Solder temp.: 245±5°C			
Resistance to solvents		The indication should be clear. 3/4 or more surface area of the solder coated terminal dipped in the soldering bath should be	2 or higher grade. As per 4.32 JIS C 5101-1 As per 4.18 JIS C 5101-3 Dip in the isopropyl alcohol for 30±5s, at room temperature. As per 4.15.2 JIS C 5101-1 As per 4.7 JIS C 5101-3 Dip speed=25±2.5mm / s Pre-treatment (accelerated aging): Leave the sample on the boiling distilled water for 1h. Solder temp.: 245±5°C Duration: 3±0.5s			
Resistance to solvents		The indication should be clear. 3/4 or more surface area of the solder coated terminal dipped in the soldering bath should be	2 or higher grade. As per 4.32 JIS C 5101-1 As per 4.18 JIS C 5101-3 Dip in the isopropyl alcohol for 30±5s, at room temperature. As per 4.15.2 JIS C 5101-1 As per 4.7 JIS C 5101-3 Dip speed=25±2.5mm / s Pre-treatment (accelerated aging): Leave the sample on the boiling distilled water for 1h. Solder temp.: 245±5°C Duration: 3±0.5s Solder: M705			
Resistance to solvents Solderability	Сара-	The indication should be clear. 3/4 or more surface area of the solder coated terminal dipped in the soldering bath should be covered with the new solder.	2 or higher grade. As per 4.32 JIS C 5101-1 As per 4.18 JIS C 5101-3 Dip in the isopropyl alcohol for 30±5s, at room temperature. As per 4.15.2 JIS C 5101-1 As per 4.7 JIS C 5101-3 Dip speed=25±2.5mm / s Pre-treatment (accelerated aging): Leave the sample on the boiling distilled water for 1h. Solder temp.: 245±5°C Duration: 3±0.5s Solder: M705 Flux: Rosin 25% IPA 75%			
Resistance to solvents Solderability	Capa-	The indication should be clear. 3/4 or more surface area of the solder coated terminal dipped in the soldering bath should be covered with the new solder. Measure value should not fluctuate	2 or higher grade. As per 4.32 JIS C 5101-1 As per 4.18 JIS C 5101-3 Dip in the isopropyl alcohol for 30±5s, at room temperature. As per 4.15.2 JIS C 5101-1 As per 4.7 JIS C 5101-3 Dip speed=25±2.5mm / s Pre-treatment (accelerated aging): Leave the sample on the boiling distilled water for 1h. Solder temp.: 245±5°C Duration: 3±0.5s Solder: M705 Flux: Rosin 25% IPA 75% As per 4.17 JIS C 5101-1			
Resistance to solvents Solderability	citance	The indication should be clear. 3/4 or more surface area of the solder coated terminal dipped in the soldering bath should be covered with the new solder. Measure value should not fluctuate during the measurement.	2 or higher grade. As per 4.32 JIS C 5101-1 As per 4.18 JIS C 5101-3 Dip in the isopropyl alcohol for 30±5s, at room temperature. As per 4.15.2 JIS C 5101-1 As per 4.7 JIS C 5101-3 Dip speed=25±2.5mm / s Pre-treatment (accelerated aging): Leave the sample on the boiling distilled water for 1h. Solder temp.: 245±5°C Duration: 3±0.5s Solder: M705 Flux: Rosin 25% IPA 75% As per 4.17 JIS C 5101-1 Frequency: 10 to 55 to 10Hz/min.			
Resistance to solvents Solderability	citance Appe-	The indication should be clear. 3/4 or more surface area of the solder coated terminal dipped in the soldering bath should be covered with the new solder. Measure value should not fluctuate during the measurement. There should be no significant	2 or higher grade. As per 4.32 JIS C 5101-1 As per 4.18 JIS C 5101-3 Dip in the isopropyl alcohol for 30±5s, at room temperature. As per 4.15.2 JIS C 5101-1 As per 4.7 JIS C 5101-3 Dip speed=25±2.5mm / s Pre-treatment (accelerated aging): Leave the sample on the boiling distilled water for 1h. Solder temp.: 245±5°C Duration: 3±0.5s Solder: M705 Flux: Rosin 25% IPA 75% As per 4.17 JIS C 5101-1 Frequency: 10 to 55 to 10Hz/min. Amplitude: 1.5mm			
Resistance to solvents	citance	The indication should be clear. 3/4 or more surface area of the solder coated terminal dipped in the soldering bath should be covered with the new solder. Measure value should not fluctuate during the measurement.	2 or higher grade. As per 4.32 JIS C 5101-1 As per 4.18 JIS C 5101-3 Dip in the isopropyl alcohol for 30±5s, at room temperature. As per 4.15.2 JIS C 5101-1 As per 4.7 JIS C 5101-3 Dip speed=25±2.5mm / s Pre-treatment (accelerated aging): Leave the sample on the boiling distilled water for 1h. Solder temp.: 245±5°C Duration: 3±0.5s Solder: M705 Flux: Rosin 25% IPA 75% As per 4.17 JIS C 5101-1 Frequency: 10 to 55 to 10Hz/min.			

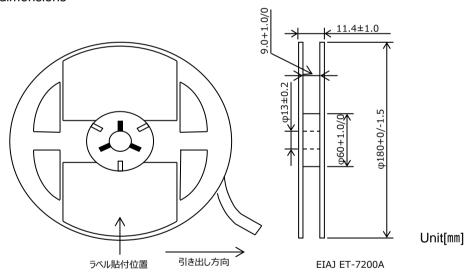
Standard products list

	Rated	Category	Surge	Сар.	Tole-	Leakage		tanδ		Impedance
	voltage	voltage	voltage		rance	current		120Hz		
	85°C	105°C	85°C	120Hz		25℃				100kHz
Part No.						1WV	-55℃	25℃	105℃	
						5min				
	(V)	(V)	(V)	(µF)	(%)	(µA)	(%)	(%)	(%)	(Ω)
TCM0G226M8R	4	2.5	5	22	±20	0.9	30	20	30	9
TCM0J475M8R	6.3	4	8	4.7	±20	0.5	30	20	30	9
TCM0J106M8R	6.3	4	8	10	±20	0.6	30	20	30	9
TCM0J226M8R-V1	6.3	4	8	22	±20	13.0	60	30	40	9
TCM0J336M8R-V1	6.3	4	8	33	±20	208.0	60	30	40	9
TCM1A225M8R	10	6.3	13	2.2	±20	0.5	30	20	30	13.5
TCM1A475M8R	10	6.3	13	4.7	±20	0.5	30	20	30	9
TCM1A106M8R	10	6.3	13	10	±20	10.0	30	20	30	9
TCM1C105M8R	16	10	20	1	±20	0.5	15	10	15	15
TCM1C225M8R	16	10	20	2.2	±20	0.5	30	20	30	13.5
TCM1E105M8R	25	16	32	1	±20	0.5	15	10	15	10

Packaging specifications

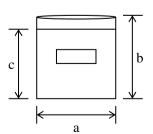


Reel dimensions



Damp proof package

- 1)One reel is packed in aluminum bag.
- The size of aluminum bag is 240(a) x 250(b)mm.
- The size up to 230(c)mm is to zipper.
- ②A desiccant is packed with a reel.
- 3The aluminum bag is heat-sealed.
- 4)The label of the same as the label on the reel is placed on the aluminum bag.



Notice

Precaution on using ROHM Products

1. Our Products are designed and manufactured for application in ordinary electronic equipment (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 (Note 1), 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

JÁPAN	USA	EU	CHINA
CLASSⅢ	CL ACCIII	CLASS II b	CL ACCIII
CLASSIV	CLASSⅢ	CLASSⅢ	CLASSⅢ

- 2. 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:
 - [a] Installation of protection circuits or other protective devices to improve system safety
 - [b] Installation of redundant circuits to reduce the impact of single or multiple circuit failure
- 3. 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:
 - [a] Use of our Products in any types of liquid, including water, oils, chemicals, and organic solvents
 - [b] Use of our Products outdoors or in places where the Products are exposed to direct sunlight or dust
 - [c] Use of our Products in places where the Products are exposed to sea wind or corrosive gases, including Cl₂, H₂S, NH₃, SO₂, and NO₂
 - [d] Use of our Products in places where the Products are exposed to static electricity or electromagnetic waves
 - [e] Use of our Products in proximity to heat-producing components, plastic cords, or other flammable items
 - [f] Sealing or coating our Products with resin or other coating materials
 - [g] Use of our Products without cleaning residue of flux (Exclude cases where no-clean type fluxes is used. However, recommend sufficiently about the residue.); or Washing our Products by using water or water-soluble cleaning agents for cleaning residue after soldering
 - [h] Use of the Products in places subject to dew condensation
- 4. The Products are not subject to radiation-proof design.
- 5. Please verify and confirm characteristics of the final or mounted products in using the Products.
- 6. 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.
- 7. De-rate Power Dissipation depending on ambient temperature. When used in sealed area, confirm that it is the use in the range that does not exceed the maximum junction temperature.
- 8. 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

- 1. When a highly active halogenous (chlorine, bromine, etc.) flux is used, the residue of flux may negatively affect product performance and reliability.
- 2. 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 lonizer, 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 Cl₂, H₂S, NH₃, SO₂, and NO₂
 - [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
- 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

A two-dimensional barcode 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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