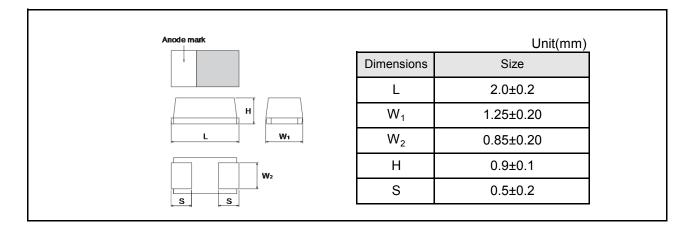


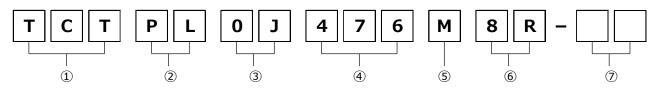
### Features

- 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 TCT

(2) Case code

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%

③ Rated voltage					
	Code	Rated voltage(V)			
	0E	2.5			
	0G	4			
	OJ	6.3			
	1A	10			
	1B	13			
	1C	16			
	1D	20			
	1E	25			
	1V	35			

PL: 2012-10(0805)size

- ⑥ Taping
  - 8: Real width: 8mm
  - R : Positive electrode on the side opposite to sprocket hole
- $\ensuremath{\overline{\mathcal{T}}}$  Discrimination code

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

☆ Under development

## Rated table

Capacitance	Rated voltage(V.DC)						
(µF)	4	6.3	10	16	20	25	35
1.0 (105	)						
2.2 (225	)						
3.3 (335	)						
4.7 (475	)				☆PL		
10 (106	)			PL			
15 (156	)						
22 (226	)		PL				
33 (336	)		☆PL				
47 (476	)	PL					
100 (107	) PL						

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

## Marking

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

- (1) Polarity : The polarity should be shown by  $\square$  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	Rated DC
Code	Voltage (V)
е	2.5
g	4
j	6.3
A	10
С	16
D	20
E	25
V	35

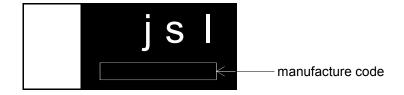
Capacitance	Nominal	Capacitance	Nominal		
Code	Capacitance (µF)	Code	Capacitance (µF)		
<u>N</u>	0.33	е	15		
<u>S</u>	0.47	j	22		
A	1.0	n	33		
E	1.5	S	47		
J	2.2	а	100		
N	3.3	e	150		
S	4.7	j	220		
а	10	n	330		

#### Visual typical example

voltage code and capacitance code are variable with parts number.

[TCT series PL case]

(1) voltage code(2) capacitance code







## Characteristics

Item		Performance	Test condition (Based on JIS C 5101-1, JIS C 5101-3)			
Operating temperature		-55℃~+125℃	Voltage reduction when temperature exceeds			
			+85℃			
Maximum operating	l	+85℃				
temperature with no						
voltage derating.						
Rated voltage(V.DC	;)	Refer to " Standard list ".	at 85℃			
Category voltage(V	.DC)	Refer to " Standard list ".	at 125℃			
Surge voltage(V.DC	;)	Refer to " Standard list ".	at 85℃			
		Chall be actisfied the value on " Standard list "				
DC leakage current		Shall be satisfied the value on " Standard list ".	As per 4.9 JIS C 5101-1-1			
			As per 4.5.1 JIS C 5101-3 Voltage : Rated voltage for 5min.			
Capacitance tolerar	200	Shall be satisfied allowance range.	As per 4.7 JIS C 5101-1			
		±20%	As per 4.5.2 JIS C 5101-3			
		12070	Measuring frequency : 120+12Hz			
			Measuring voltage : 0.5Vrms+1.5V.DC			
			Measuring circuit : DC equivalent series circuit			
Tangent of loss ang	le	Shall be satisfied the value on " Standard list ".	As per 4.8 JIS C 5101-1			
(Df,tanδ)			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 circuit			
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 : 120+12Hz			
			Measuring voltage : 0.5Vrms+1.5V.DC			
			Measuring circuit : DC equivalent series circuit			
Resistance	App-	There should be no significant abnormality.	As per 4.14 JIS C 5101-1			
to soldering	arance	The indications should be clear.	As per 4.6 JIS C 5101-3			
heat	L.C.	Less than initial limit.	Dip in the solder bath.			
			Solder temp. : 260±10℃			
	⊿C/C	Within ±20% of initial limit.	Duration : 5±0.5s			
			Repetition : 1			
	DF	Less than 200% of initial limit.	After the specimens, leave it at room temperature			
	(tanδ)		for over 24h and then measure the sample.			
Temperature	App-	There should be no significant abnormality.	As per 4.16 JIS C 5101-1			
cycle	arance	The indications should be clear.	As per 4.10 JIS C 5101-3			
	L.C.	Less than 200% of initial limit.	Repetition : 5cycles			
	⊿c/c	Within ±20% of initial limit.	(1cycle:steps1~4)Without discontinuation			
	20/0		Temp. Time			
	DF	Less than 200% of initial limit.	1 -55°C±3°C 30±3min			
	tanδ)		2 Room temp. 3min or less			
	(tario)		3 125±2℃ 30±3min			
			4 Room temp. 3min or less			



Item		Performance	Test condition (Based on JIS C 5101-1, JIS C 5101-3)			
		There should be no significant abnormality. The indications should be clear.	As per 4.22 JIS C 5101-1 As per 4.12 JIS C 5101-3			
	L.C.	Less than 200% of initial limit.	After leaving the sample under such atmospheric condition that the temperature and humidity are			
	⊿C/C	Within ±20% of initial limit.	60±2°C and 90~95%(Relative Humidity) , respectively ,for 500±24h leave it at room			
	DF (tanδ)	Less than 200% of initial limit.	temperature for over 24h and then measure the sample.			
Temperature	Temp : -55°	c	As per 4.29 JIS C 5101-1			
	⊿C/C	Within 0/-15% of initial limit.	As per 4.13 JIS C 5101-3			
	tanō	Shall be satisfied the value on " Standard list ".				
	L.C.	-				
	Temp : +85°	Ĉ				
	⊿C/C	Within +15/0% of initial limit.				
	tanō	Shall be satisfied the value on " Standard list ".				
	L.C.	Less than 1000% of initial limit.				
	Temp : +125	5°C	-			
	⊿C/C	Within +20/0% of initial limit.				
	tanō	Shall be satisfied the value on " Standard list ".				
	L.C.	Less than 1250% of initial limit.				
Surge voltage	App- arance	There should be no significant abnormality. The indications should be clear.	As per 4.26 JIS C 5101-1 As per 4.14 JIS C 5101-3			
	L.C.	Less than 200% of initial limit.	Apply the specified serge voltage via the serial resistance of $1k\Omega$ ever 5±0.5min for 30±5s each			
	⊿C/C	Within ±20% of initial limit.	time in the atmospheric condition of 85±2°C. Repeat this procedure 1,000 times. After the			
	DF	Less than 200% of initial limit.	specimens, leave it at room temperature for over			
	(tanδ)		24h and then measure the sample.			
Loading at	App-	There should be no significant abnormality.	As per 4.23 JIS C 5101-1			
high	arance	The indications should be clear.	As per 4.15 JIS C 5101-3			
temperature	L.C.	Less than 200% of initial limit.	After applying the rated voltage for 1000+36/0h without discontinuation via the serial resistance			
	⊿C/C	Within ±20% of initial limit.	of $3\Omega$ or less at a temperature of $85\pm 2^{\circ}C$ , leave the sample at room temperature/humidity for			
	DF (tanδ)	Less than 200% of initial limit.	over 24h and measure the value.			
	(	1				





Item		Performance	Test condition (Based on JIS C 5101-1, JIS C 5101-3)		
Terminal	Capa-	The measured value should be stable	As per 4.35 JIS C 5101-1		
		The measured value should be stable.			
strength	citance		As per 4.9 JIS C 5101-3		
	App-	There should be no significant abnormality.	A force is applied to the terminal until it bends		
	arance		to 1mm and by a prescribed tool maintains the		
			Unit(mm)		
			50 / 20		
			F(Apply force)		
			$(\underline{R230})/ \Psi$		
			1.0mm		
			thickness=1.6mm		
			φΨφ		
			45 45		
Adhesiveness The terminal should not come		The terminal should not come off.	As per 4.34 JIS C 5101-1		
			As per 4.8 JIS C 5101-3		
			Apply force of 5N in the two directions shown		
			in he figure below for 10±1s after mounting the		
			terminal on a circuit board.		
			Products		
			Apply force		
			A circuit board		
Dimensions		Refer to "External dimensions"	Measure using a caliper of JIS B 7507 class 2		
Dimensions		Refer to "External dimensions"	Measure using a caliper of JIS B 7507 class 2 or higher grade.		
Dimensions Resistance to solve	nts	Refer to "External dimensions" The indication should be clear.			
	nts		or higher grade.		
	nts		or higher grade. As per 4.32 JIS C 5101-1		
	nts		or higher grade. As per 4.32 JIS C 5101-1 As per 4.18 JIS C 5101-3		
Resistance to solve	nts		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 ,		
Resistance to solve	nts	The indication should be clear.	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 solve	nts	The indication should be clear. 3/4 or more surface area of the solder	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		
Resistance to solve	nts	The indication should be clear. 3/4 or more surface area of the solder coated terminal dipped in the soldering	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 solve	nts	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	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 solve	nts	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	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       : Leave the sample on the boiling		
Resistance to solve	nts	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	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 : Leave the sample on the boiling (accelerated aging)		
Resistance to solve	nts	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	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 4.15.2 JIS C 5101-1 As per 4.7 JIS C 5101-3 Dip speed : 25±2.5mm/s Pre-treatment : Leave the sample on the boiling (accelerated aging) Solder temp : 245±5°C		
Resistance to solve	nts	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	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 : Leave the sample on the boiling (accelerated aging) Solder temp : 245±5°C Duration : 3±0.5s		
Resistance to solve	nts	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	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 4.15.2 JIS C 5101-3         Dip speed       : 25±2.5mm/s         Pre-treatment       : Leave the sample on the boiling         (accelerated aging)         Solder temp       : 245±5°C         Duration       : 3±0.5s         Solder       : M705		
Resistance to solve	nts 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	or higher grade. As per 4.32 JIS C 5101-1 As per 4.18 JIS C 5101-3 Dip in the isoproyJ alcohol for 30±5s , at room temperature. As per 4.15.2 JIS C 5101-1 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 : Leave the sample on the boiling (accelerated aging) Solder temp : 245±5°C Duration : 3±0.5s Solder : M705 Flux : Rosin 25% IPA 75%		
Resistance to solve		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	or higher grade.         As per 4.32 JIS C 5101-1         As per 4.132 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 4.15.2 JIS C 5101-3         Dip speed       : 25±2.5mm/s         Pre-treatment       : Leave the sample on the boiling         (accelerated aging)         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 solve	Capa- 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.	or higher grade.         As per 4.32 JIS C 5101-1         As per 4.132 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 4.15.2 JIS C 5101-3         Dip speed       : 25±2.5mm/s         Pre-treatment       : Leave the sample on the boiling         (accelerated aging)         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       : 10~55~10Hz/min.		
Resistance to solve	Capa- citance App-	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	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 4.15.2 JIS C 5101-1         As per 4.7 JIS C 5101-3         Dip speed       25±2.5mm/s         Pre-treatment       : Leave the sample on the boiling         (accelerated aging)         Solder temp       : 245±5°C         Duration       : 3±0.5s         Solder       : M705         Flux       : Rosin 25%         IPA 75%       As per 4.17 JIS C 5101-1         As per 4.17 JIS C 5101-1       Frequency         As per 4.17 JIS C 5101-1       As per 4.17 JIS C 5101-1		
	Capa- 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.	or higher grade.         As per 4.32 JIS C 5101-1         As per 4.132 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 4.15.2 JIS C 5101-3         Dip speed       : 25±2.5mm/s         Pre-treatment       : Leave the sample on the boiling         (accelerated aging)         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       : 10~55~10Hz/min.		



## $\bullet$ Standard products list

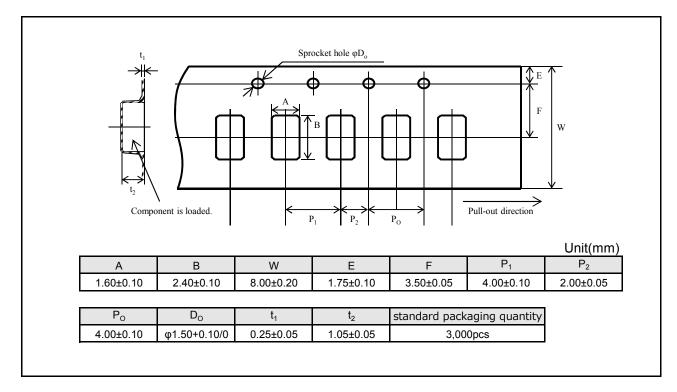
	Rated	Category	Surge	Cap.	Tole-	Leakage		tanδ		Impedance
	voltage	voltage	voltage		rance	current				
Part No	85℃	105℃	85℃	120Hz		25℃		120Hz		100kHz
						1WV	-55℃	25℃	125℃	
						5min		85℃		
	(V)	(V)	(V)	(µF)	(%)	(µA)	(%)	(%)	(%)	(Ω)
TCTPL0G107M8R-V1	4	2.5	5	100	±20	20	60	30	40	4.0
TCTPL0J476M8R	6.3	4	8	47	±20	14.8	60	30	40	4.0
TCTPL1A226M8R	10	6.3	13	22	±20	11.0	30	20	30	5.0
☆TCTPL1A336M8R	10	6.3	13	33	±20	16.5	60	30	40	4.0
TCTPL1C106M8R	16	10	20	10	±20	3.2	30	20	30	6.0
☆TCTPL1D475M8R	20	13	26	4.7	±20	1.9	30	20	30	6.0

 $\stackrel{\scriptscriptstyle \wedge}{\asymp}$  = Under development

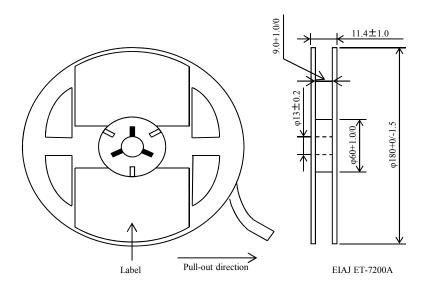




## • Packaging specifications



## • Reel dimensions





# 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 (<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.

JAPAN	USA	EU	CHINA
CLASSⅢ	CLASSⅢ	CLASS II b	CLASSII
CLASSIV CLASSI		CLASSII	CLASSI

- 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 Cl<sub>2</sub>, H<sub>2</sub>S, NH<sub>3</sub>, SO<sub>2</sub>, and NO<sub>2</sub>
  - [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.
- 9. 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 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**

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**

- All information and data including but not limited to application example contained in this document is for reference only. ROHM does not warrant that foregoing information or data will not infringe any intellectual property rights or any other rights of any third party regarding such information or data.
- 2. ROHM shall not have any obligations where the claims, actions or demands arising from the combination of the Products with other articles such as components, circuits, systems or external equipment (including software).
- 3. No license, expressly or implied, is granted hereby under any intellectual property rights or other rights of ROHM or any third parties with respect to the Products or the information contained in this document. Provided, however, that ROHM will not assert its intellectual property rights or other rights against you or your customers to the extent necessary to manufacture or sell products containing the Products, subject to the terms and conditions herein.

#### **Other Precaution**

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## TCTPL1C106M8R - Web Page

**Distribution Inventory** 

Part Number	TCTPL1C106M8R
Package	TCTPL
Unit Quantity	3000
Minimum Package Quantity	3000
Packing Type	Taping
Constitution Materials List	inquiry
RoHS	Yes



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>>ROHM Semiconductor(罗姆)