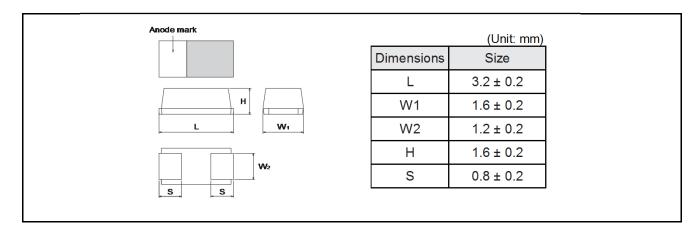
Conductive polymer chip capacitors (Bottom surface electrode type : Large capacitance)

TCTO Series A Case Datasheet

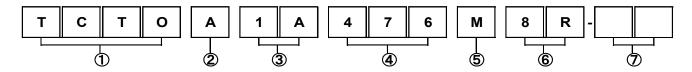
Features

- 1) Conductive polymer used at the cathode for ultra-low ESR.
- 2) Bottom electrode configuration results in the largest capacitance.
- 3) Compact, low profile, high capacitance contribute to smaller, thinner sets with greater functionality.
- 4) Conductive polymer has a self-healing function that prevents failure, resulting in safe, high reliability operation.

Dimensions



● Part No. Explanation



- ① Series name TCTO
- ② Case style A: 3216-18 (1206) size
- 3 Rated voltage

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

- 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

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

Rated table

 $(ESR : m\Omega)$

Capacitance	Rated voltage (V.DC)									
(μF)	2.5	6.3	10	16						
10 (106)				☆200						
22 (226)										
47 (476)			200							
100 (107)		☆ 35/45								
150 (157)		☆35/200								
220 (227)	35									
330 (337)	☆ 35/ ☆ 200									

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.

Valtaga Codo	Rated DC Voltage					
Voltage Code	(V)					
е	2.5					
j	6.3					
А	10					
С	16					

Capacitance Code	Nominal Capacitance (μ F)				
а	10				
j	22				
S	47				
a	100				
e	150				
j	220				
n	330				

Visual typical example

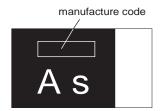
voltage code and capacitance code are variable with parts number.

[A case]

EX.)

A s (2)

(1) voltage code (2) capacitance code



Characteristics

	Item	Performance						Test condi	itions (based on JIS C 510	1–1 and JIS C 5101–3)			
	perating Temperature -55°C to +105°C			Voltage reduction when temperature exceeds +85°C									
Maximum opera with no voltage	ting temperature derating	+85°	,C										
Rated voltage (\	/.DC)	2.5	4	6.3	3 10) /	16		at 85°C				
Category voltag	e (V.DC)	2	3.2	5	8	1:	2.8		at 105°C				
Surge voltage (\	/.DC)	3.2	5	8	13	3 2	20		at 85°C				
DC Leakage current		Standard list "					e value on "		As per 4.9 JIS C 5101-1 As per 4.5.1 JIS C 5101-3 Voltage : Rated voltage for 5min				
Capacitance tole	tance tolerance Shall be satisfied allowance range. ±20%			J	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 circuit								
Tangent of loss	angle (Df, tan δ)		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 circuit										
ESR	SR 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 circuit									
Resistance to Soldering heat	Appearance	There should be no significant abnormality. The indications should be clear.				ould	As per 4.14 JIS C 5101-1 As per 4.6 JIS C 5101-3 Dip in the solder bath						
L.C.		Less than 300% of initial limit					nitial limit		Solder temp: 240 ± 5°C Duration: 10 ± 0.5s				
	⊿c/c	Within ±20% of initial value					ıl value		Repetition: 1 After the specimens, leave it at room temperature for over 24h and then measure				
	Df (tan δ)	Less	Less than 300% of initial limit						the samp	e.			
Temperature cycle	Appearance	There should be no significant abnormality. The indications should be clear.		ould	As per 4. Repetition	16 JIS C 510 ⁴ 10 JIS C 510 ⁴ 1 : 5 cycles steps 1 to 4)		Time					
				Less than 1000% of initial limit					· ·	Time			
	L.C.	Less	s thar	n 1	000%	6 of	initial limit	l		1 I	−55±3°C	30±3min.	
	L.C.	Less	s thar	n 1	000%	6 of	initial limit		-	1 2	−55±3°C Room temp.	30±3min. 3min. or less	
	L.C.	Less	s thar	n 10	000%	6 of	initial limit		-				
	L.C. ⊿c/c						initial limit			2 3 4	Room temp. 105±2°C Room temp.	3min. or less 30±3min. 3min. or less	
	⊿c/c	With	nin ±2	20%	6 of i	nitia	ıl value		After the the samp	2 3 4 specimens, le	Room temp. 105±2°C Room temp.	3min. or less 30±3min.	
		With	nin ±2	20%	6 of i	nitia				2 3 4 specimens, le	Room temp. 105±2°C Room temp.	3min. or less 30±3min. 3min. or less	
Moisture resistance	⊿C / C Df (tan δ) Appearance	With Less	nin ±2 s thar	n 3	% of in	of in	ıl value	ould	As per 4.2 As per 4.2 As per 4.2	3 4 specimens, lee. 22 JIS C 510° 12 JIS C 510° ing the samp	Room temp. 105±2°C Room temp. ave it at room temperature	3min. or less 30±3min. 3min. or less of for over 24h and then measured condition that the temperature	
	⊿C / C Df (tan δ)	With Less The abnote the control of	nin ±2 s than re shormal	20% n 3 oul	6 of in	of ii	al value nitial limit significant	ould	As per 4.: As per 4.: As per 4.: After leav humidity	2 3 4 specimens, lee. 22 JIS C 510 ^o 12 JIS C 510 ^o ing the samp are 40±2°C al	Room temp. 105±2°C Room temp. eave it at room temperature 1-1 1-3 le under such atmospheric nd 90 to 95% RH, respective	3min. or less 30±3min. 3min. or less for over 24h and then measu condition that the temperature yely, for 500±12h leave it at ro	
	⊿C / C Df (tan δ) Appearance	With Less	s than re shormal clear. s than	n 3 oul lity	% of in 00% d be . The 00%	of indo	al value nitial limit significant lications sh	ould	As per 4.: As per 4.: As per 4.: After leav humidity	2 3 4 specimens, lee. 22 JIS C 510 ^o 12 JIS C 510 ^o ing the samp are 40±2°C al	Room temp. 105±2°C Room temp. ave it at room temperature	3min. or less 30±3min. 3min. or less for over 24h and then measu condition that the temperature yely, for 500±12h leave it at ro	

	em	Performance	Test conditions (based on JIS C 5101–1 and JIS C 5101–3)				
Temperature	Temp.	−55°C	As per 4.29 JIS C 5101-1 As per 4.13 JIS C 5101-3				
Stability	⊿c/c	Within 0/–20% of initial value	As per 4.13 315 C 5101-3				
	Df (tan δ)	Shall be satisfied the value on " Standard list "					
	L.C.	-					
	Temp.	+105°C					
	⊿c/c	Within +50/0% of initial value					
	Df (tan δ)	Shall be satisfied the value on " Standard list "	7				
	L.C.	Less than 1,000% of initial limit					
Surge voltage	Appearance	There should be no significant abnormality.	As per 4.26JIS C 5101-1 As per 4.14JIS C 5101-3				
	L.C.	Less than 200% of initial limit	Apply the specified surge voltage via the serial resistance of 1kΩ even 5±0.5 min. for 30±5 s. each time in the atmospheric condition of 85±				
	⊿c/c	Within ±20% of initial value	C. Repeat this procedure 1,000 times.				
	Df (tan δ)	Less than 200% of initial limit	After the specimens, leave it at room temperature for over 24h and then measure the sample.				
Loading at High temperature	Appearance	There should be no significant abnormality. The indications should be clear.	As per 4.23 JIS C 5101-1 As per 4.15 JIS C 5101-3				
	L.C.	Less than 400% of initial limit	After applying the rated voltage for 1000+72/0 h without discontinuation the pariet resistance of 30 or less at a temperature of 85 x 3°C				
	⊿c/c	Within ±20% of initial value	via the serial resistance of 3Ω or less at a temperature of $85\pm2^{\circ}$ C, leave the sample at room temperature / humidity for over 24h and				
	Df (tan δ)	Less than 300% of initial limit	measure the value.				
Terminal strength	` '	The measured value should be stable.	As per 4.35 JIS C 5101-1				
. oa. ooga.	Сараснано		As per 4.9 JIS C 5101-3 A force is applied to the terminal until it bends to 1mm and by a				
	Appearance	There should be no significant abnormality.	prescribed tool maintains the condition for 5s.				
	Appourance	There enough be no digital abrief abrief and	(See the figure below) (Unit: mm)				
			F (Apply force)				
			R230/ †				
			1000 1				
			thickness=1.6mm				
			45 45				
Adhesiveness		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 the figure below for				
			±1s after mounting the terminal on a circuit board.				
			product				
			Apply force				
			Apply force				
			Apply force a circuit board				
Dimensions		Refer to "External dimensions"					
Dimensions Resistance to solv	vents	Refer to "External dimensions" The indication should be clear.	a circuit board				
	rents		a circuit board Measure using a caliper of JIS B 7507 Class 2 or higher grade. As per 4.32 JIS C 5101-1 As per 4.18 JIS C 5101-3				
	vents		a circuit board Measure using a caliper of JIS B 7507 Class 2 or higher grade. As per 4.32 JIS C 5101-1				
Resistance to solv	vents	The indication should be clear. 3/4 or more surface area of the solder coated	As per 4.18 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 solv	vents	The indication should be clear. 3/4 or more surface area of the solder coated terminal dipped in the soldering bath should be	As per 4.18 JIS C 5101-1 As per 4.15.2 JIS C 5101-1 As per 4.7 JIS C 5101-1				
Resistance to solv	rents	The indication should be clear. 3/4 or more surface area of the solder coated	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 4.7 JIS C 5101-3 Dip speed=25±2.5mm/s				
	rents	The indication should be clear. 3/4 or more surface area of the solder coated terminal dipped in the soldering bath should be	As per 4.18 JIS C 5101-1 As per 4.15.2 JIS C 5101-1 As per 4.7 JIS C 5101-1				
Resistance to solv	vents	The indication should be clear. 3/4 or more surface area of the solder coated terminal dipped in the soldering bath should be	As per 4.15.2 JIS C 5101-1 As per 4.7 JIS C 5101-1 As per 4.7 JIS C 5101-1 As per 4.7 JIS C 5101-3 Dip in the isopropyl alcohol for 30±5s, at room temperature. 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 solv	vents	The indication should be clear. 3/4 or more surface area of the solder coated terminal dipped in the soldering bath should be	Measure using a caliper of JIS B 7507 Class 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 solv	rents	The indication should be clear. 3/4 or more surface area of the solder coated terminal dipped in the soldering bath should be	As per 4.15.2 JIS C 5101-1 As per 4.7 JIS C 5101-1 As per 4.7 JIS C 5101-1 As per 4.7 JIS C 5101-3 Dip in the isopropyl alcohol for 30±5s, at room temperature. 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 solv		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 using a caliper of JIS B 7507 Class 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 solv	rents	The indication should be clear. 3/4 or more surface area of the solder coated terminal dipped in the soldering bath should be	Measure using a caliper of JIS B 7507 Class 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 solv		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	Measure using a caliper of JIS B 7507 Class 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				



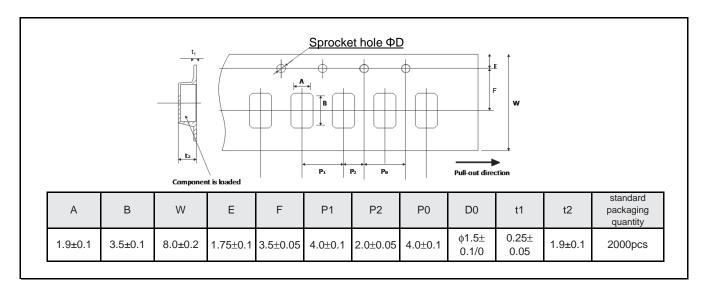
Standard products list

Part No.	Rated voltage 85°C	Category voltage 105°C	Surge voltage 85°C	Cap. 120Hz	Toleranc e	Leakage current 25° C 1WV.5min	Df 120Hz (%)			ESR 100kHz
	(V)	(V)	(V)	(μF)	(%)	(μ A)	–55°C	25°C	105°C	$(m\Omega)$
TCTO A 0E 227 M8R-ZN1	2.5	2	3.2	220	± 20	55	15	15	20	35
* TCTO A 0E 337 M8R-ZN1	2.5	2	3.2	330	± 20	82.5	15	15	20	35
* TCTO A 0E 337 M8R-ZD1	2.5	2	3.2	330	± 20	82.5	15	15	20	200
* TCTO A 0J 107 M8R-ZN1	6.3	5	8	100	± 20	63	15	15	20	35
TCTO A 0J 107 M8R-ZS1	6.3	5	8	100	± 20	63	15	15	20	45
* TCTO A 0J 157 M8R-ZN1	6.3	5	8	150	± 20	94.5	15	15	20	35
TCTO A 0J 157 M8R	6.3	5	8	150	± 20	94.5	15	15	20	200
TCTO A 1A 476 M8R	10	8	13	47	± 20	47	10	10	15	200
* TCTO A 1C 106 M8R-ZD1	16	12.8	20	10	± 20	16	10	10	15	200

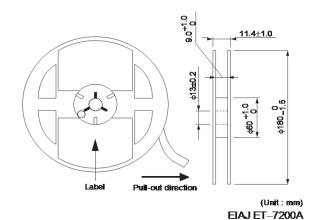
^{* =} Under development

Please contact us for specification of low ESR products.

Packaging specifications



Reel dimensions



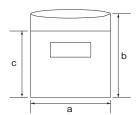
●Damp proof package

①One 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.
- 3)The 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

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

JAPAN	N USA EU		CHINA
CLASSⅢ	CLASSIII	CLASS II b	CLASSIII
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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- The proper names of companies or products described in this document are trademarks or registered trademarks of ROHM, its affiliated companies or third parties.

Notice-PGA-E Rev.004

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- 1. Before you use our Products, you are requested to carefully read this document and fully understand its contents. ROHM shall not be in any way responsible or liable for failure, malfunction or accident arising from the use of any ROHM's Products against warning, caution or note contained in this document.
- 2. All information contained in this document is current as of the issuing date and subject to change without any prior notice. Before purchasing or using ROHM's Products, please confirm the latest information with a ROHM sales representative.
- 3. The information contained in this document is provided on an "as is" basis and ROHM does not warrant that all information contained in this document is accurate and/or error-free. ROHM shall not be in any way responsible or liable for any damages, expenses or losses incurred by you or third parties resulting from inaccuracy or errors of or concerning such information.

Notice – WE Rev.001

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TCTOA1A476M8R TCTOA0J157M8R TCTOA0J107M8R-ZS1