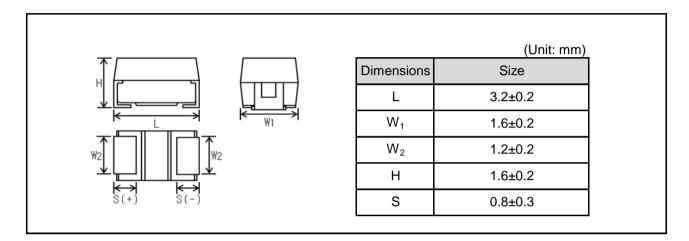


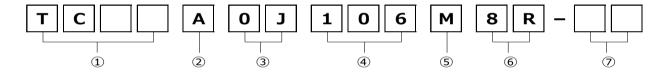
Features

- 1) Small package, large capacitance chip tantalum capacitor.
- 2) Low impedance capacitors.
- 3) Screening by thermal shock.

Dimensions



Part No. Explanation



① Series name TC

2 Case style

A: 3216-3216(18)size

3 Rated voltage

rated renage	•
CODE	Rated voltage(V)
0E	2.5
0G	4
0J	6.3
1A	10
1C	16
1D	20
1E	25
1V	35
1H	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

Rated table

Impedance(Ω)

Capa	citance	Rated voltage (V.DC)							441100(11)	
	ιF)	2.5	4	6.3	10	16	20	25	35	50
1.0	(105)					7	7	7	7	
1.5	(155)				8.8	5.6				
2.2	(225)				5.6	4.9				
3.3	(335)			5.6	4.9	4.8		4.8		
4.7	(475)		5.6	4.9	4.2	3.9	3.9	3.4		
6.8	(685)			4.2	4	3.8				
10	(106)			4	3	3.5				
15	(156)		4	3	3.5					
22	(226)		3	3.5	3.2	2.3				
33	(336)		3.5	3.2	1.7					
47	(476)		3.2	3.2						
68	(686)		3	3						
100	(107)		3	☆3						
150	(157)									

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 Code	Voltage (V)				
е	2.5				
g	4				
j	6.3				
Α	10				
С	16				
D	20				
Е	25				
V	35				
Н	50				

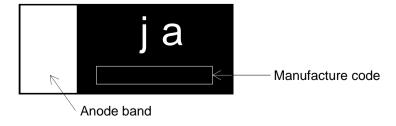
Capacitance	Nominal	Capacitance	Nominal
Code	Capacitance (µF)	Code	Capacitance (µF)
<u>E</u>	0.15	е	15
<u>N</u>	0.33	j	22
<u>S</u>	0.47	n	33
Α	1.0	s	47
E	1.5	W	68
J	2.2	а	100
N	3.3	Φ	150
S	4.7	j	220
W	6.8	n	330
а	10	s	470

Visual typical example

voltage code and capacitance code are variable with parts number.

[TC series A 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 operate temperature with voltage derating	-	+85℃						
Rated voltage (V	(DC)	Refer to " Standard list ".	at 85℃					
Category voltage	•	Refer to " Standard list ".	at 125°C					
Surge voltage (V		Refer to " Standard list ".	at 85℃					
DC Leakage cur	•	Shall be satisfied the value on	As per 4.9 JIS C 5101-1					
· ·		" Standard list ".	As per 4.5.1 JIS C 5101-3					
			Voltage : Rated voltage for 5min					
Capacitance tole	rance	Shall be satisfied allowance range.	As per 4.7 JIS C 5101-1					
•		±20%	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 circui					
Tangent of loss	angle	Shall be satisfied the value on	As per 4.8 JIS C 5101-1					
(Df,tanδ)		" Standard list ".	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 circ					
Impedance		Shall be satisfied the value on	As per 4.10 JIS C 5101-1					
		" Standard list ".	As per 4.5.4 JIS C 5101-3					
			Measuring frequency :100 ± 10kHz					
			Measuring voltage :0.5Vrms or less					
			Measuring circuit :DC Equivalent series circui					
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 :260 ± 10°C					
			Duration :5 ± 0.5s					
	⊿C/C	Within ±20% of initial value.	Repetition :1					
			After the specimens, leave it at room temperature					
	DF	Less than 200% of initial limit.	for over 24h and then measure the sample.					
	(tanδ)							
Temperature	Appe-	There should be no significant	As per 4.16 JIS C 5101-1					
cycle	arance	abnormality.	As per 4.10 JIS C 5101-3					
		The indications should be clear.	Repetition : 5 cycles					
	L.C.	Less than 200% of initial limit.	(1 cycle : steps 1 to 4) without discontinuation.					
	1010	Marie contract to the contract of the contract	Temp. Time					
	⊿C/C	Within ±20% of initial value.	1 -55±3°C 30±3min					
	55	Land there 0000/ 11 W L W W	2 Room Temp. 3min or less					
	DF (ton 5)	Less than 200% of initial limit.	3 125±2°C 30±3min					
	(tanδ)		4 Room Temp. 3min or less					
			After the specimens, leave it at room temperature					
			for over 24h and then measure the sample.					
			Initial value for ∠C/C shall be the value after					
			mounted.					

Iten	n	Performance	Test conditions (based on JIS C 5101-1 and 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					
rodiotarioo	ararroo	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					
	2.0.	2000 than 20070 of findal limit.	60±2°C and 90 to 95% RH, respectively, for					
	⊿C/C	Within ±20% of initial value.	500+12/0h leave it at room temperature for					
	20,0	Trialini 22070 of milital value.	over 24h and then measure the sample.					
	DF	Less than 200% of initial limit.	Initial value for ⊿C/C shall be the value after					
	(tanδ)	2000 than 20070 of militar militar	mounted.					
Temperature	Temp.:-	55°C	As per 4.29 JIS C 5101-1					
Stability	⊿C/C	Within 0/-15% of initial value.	As per 4.13 JIS C 5101-3					
- 1,			Initial value for ∠C/C shall be the value after					
	DF	Shall be satisfied the value on	mounted.					
	(tanδ)	" Standard list "						
	L.C.	-						
	Temp.:	<u> </u> +85°C	-					
	⊿C/C	Within +15/0% of initial value.	\dashv					
	20/0	Willing +15/0 % of fillinal value.						
	DF	Shall be satisfied the value on	7					
	(tanδ)	" Standard list "						
	L.C.	Less than 1000% of initial limit.						
	Temp.:-	<u> </u> +125°C	-					
	⊿C/C	Within +20/0% of initial value.						
	DF	Shall be satisfied the value on						
	(tanδ)	" Standard list "	<u> </u>					
	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.					
	3, 2		After the specimens, leave it at room temperature					
	DF	Less than 200% of initial limit.	for over 24h and then measure the sample.					
	(tanδ)		Initial value for ⊿C/C shall be the value after					
			mounted.					
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 2000+72/0 h					
	L.C.	Less than 200% of initial limit.	without discontinuation via the serial resistance of 3Ω or less at a temperature of $85\pm2^{\circ}$ C, leave the sample at room temperature / humidity for over 24h and measure the value.					
	⊿C/C	Within ±20% of initial value.						
	DF	Less than 200% of initial limit.	Initial value for ∠C/C shall be the value after					
	(tanδ)	35	mounted.					

Item		Performance	Test conditions				
Terminal	Capa-	The measured value should be	(based on JIS C 5101-1 and JIS C 5101-3) As per 4.35 JIS C 5101-1				
strength	citance	stable.	As per 4.9 JIS C 5101-3				
strength		There should be no significant					
	Appe-	-	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)				
			50 20 F(Apply force)				
			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 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				
Dimensions Resistance to solvents Solderability		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 Pre-treatment (accelerated aging): Leave the sample on the boiling distilled water				
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	Cana-	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	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 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.				

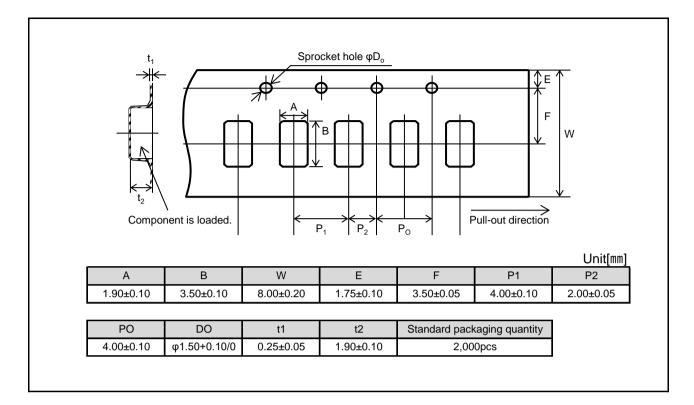
Standard products list

	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)
TCA0G475M8R	4	2.5	5	4.7	±20	0.5	10	6	8	5.6
TCA0G156M8R	4	2.5	5	15	±20	0.6	12	8	10	4
TCA0G226M8R	4	2.5	5	22	±20	0.9	12	8	10	3
TCA0G336M8R	4	2.5	5	33	±20	1.3	14	10	12	3.5
TCA0G476M8R TCA0G686M8R	4	2.5 2.5	5 5	47 68	±20 ±20	1.9 2.7	30 34	12 18	16 24	3.2
TCA0G000W8R TCA0G107M8R	4	2.5	5	100	±20 ±20	4.0	54	30	36	3
TCA0J335M8R	6.3	4	8	3.3	±20 ±20	0.5	10	6	8	5.6
TCA0J335W6R TCA0J475M8R	6.3	4	8	4.7	±20 ±20	0.5	12	8	10	4.9
TCA0J685M8R	6.3	4	8	6.8	±20	0.5	12	8	10	4.9
TCA0J106M8R	6.3	4	8	10	±20	0.6	12	8	10	4
TCA0J156M8R	6.3	4	8	15	±20	0.9	12	8	10	3
TCA0J226M8R	6.3	4	8	22	±20	1.4	14	10	12	3.5
TCA0J336M8R	6.3	4	8	33	±20	2.1	30	12	16	3.2
TCA0J476M8R	6.3	4	8	47	±20	3.0	34	18	24	3.2
TCA0J686M8R	6.3	4	8	68	±20	4.3	54	30	36	3
* TCA0J107M8R	6.3	4	8	100	±20	31.5	54	30	36	3
TCA1A155M8R	10	6.3	13	1.5	±20	0.5	10	6	8	8.8
TCA1A225M8R	10	6.3	13	2.2	±20	0.5	10	6	8	5.6
TCA1A335M8R	10	6.3	13	3.3	±20	0.5	12	8	10	4.9
TCA1A475M8R	10	6.3	13	4.7	±20	0.5	12	8	10	4.2
TCA1A685M8R	10	6.3	13	6.8	±20	0.7	12	8	10	4
TCA1A106M8R	10	6.3	13	10	±20	1.0	12	8	10	3
TCA1A156M8R	10	6.3	13	15	±20	1.5	14	10	12	3.5
TCA1A226M8R	10	6.3	13	22	±20	2.2	30	12	16	3.2
TCA1A336M8R	10	6.3	13	33	±20	3.3	12	8	10	1.7
TCA1C105M8R	16	10	20	1	±20	0.5	10	6	8	7
TCA1C155M8R	16	10	20	1.5	±20	0.5	10	6	8	5.6
TCA1C225M8R	16	10	20	2.2	±20	0.5	10	6	8	4.9
TCA1C335M8R	16	10	20	3.3	±20	0.5	10	6	8	4.8
TCA1C475M8R	16	10	20	4.7	±20	0.8	10	6	8	3.9
TCA1C685M8R	16	10	20	6.8	±20	1.1	10	6	8	3.8
TCA1C106M8R	16	10	20	10	±20	1.6	12	8	10	3.5
TCA1C226M8R	16	10	20	22	±20	3.5	54	30	36	2.3
TCA1D105M8R	20	13	26	1 7	±20	0.5	10	6	8	7
TCA1D475M8R	20 25	13 16	26 32	4.7 1	±20	0.9 0.5	10	6	8	3.9 7
TCA1E105M8R TCA1E335M8R	25 25	16	32	3.3	±20 ±20	0.8	10	6	8	4.8
TCA1E475M8R	25	16	32	3.3 4.7	±20 ±20	1.2	12	8	10	3.4
TCA1V105M8R	35	22	44	1	±20 ±20	0.5	10	6	8	7
This appointment in h						(alapment			U	,

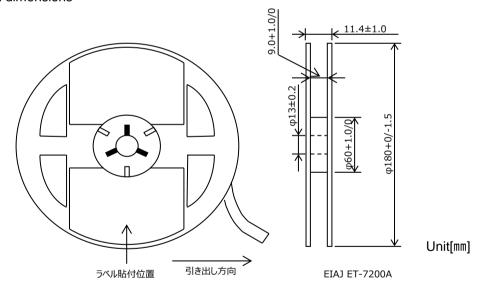
^{*}This specification has possibility of charge, due to underdevelopment product. Please ask for latest specification to our sales.



Packaging specifications



Reel dimensions



Notes

- 1) The information contained herein is subject to change without notice.
- Before you use our Products, please contact our sales representative and verify the latest specifications.
- 3) Although ROHM is continuously working to improve product reliability and quality, semiconductors can break down and malfunction due to various factors. Therefore, in order to prevent personal injury or fire arising from failure, please take safety measures such as complying with the derating characteristics, implementing redundant and fire prevention designs, and utilizing backups and fail-safe procedures. ROHM shall have no responsibility for any damages arising out of the use of our Poducts beyond the rating specified by ROHM.
- 4) Examples of application circuits, circuit constants and any other information contained herein are provided only to illustrate the standard usage and operations of the Products. The peripheral conditions must be taken into account when designing circuits for mass production.
- 5) The technical information specified herein is intended only to show the typical functions of and examples of application circuits for the Products. ROHM does not grant you, explicitly or implicitly, any license to use or exercise intellectual property or other rights held by ROHM or any other parties. ROHM shall have no responsibility whatsoever for any dispute arising out of the use of such technical information.
- 6) The Products are intended for use in general electronic equipment (i.e. AV/OA devices, communication, consumer systems, gaming/entertainment sets) as well as the applications indicated in this document.
- 7) The Products specified in this document are not designed to be radiation tolerant.
- 8) For use of our Products in applications requiring a high degree of reliability (as exemplified below), please contact and consult with a ROHM representative : transportation equipment (i.e. cars, ships, trains), primary communication equipment, traffic lights, fire/crime prevention, safety equipment, medical systems, servers, solar cells, and power transmission systems.
- Do not use our Products in applications requiring extremely high reliability, such as aerospace equipment, nuclear power control systems, and submarine repeaters.
- 10) ROHM shall have no responsibility for any damages or injury arising from non-compliance with the recommended usage conditions and specifications contained herein.
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