旺谷 Product Specification Page No 1/14 Page No 1/14 1 Scope: 1.1 This specification is applicable to lead and halogen free RTA series thick film chip resistors array。 1.2 Lead free products mean lead free termination meets RoHS requirement. Pb contained in glass material of resistor element are exempted by RoHS directive. 1.3 The product is for general purpose. 1.4 The available AEC-Q200 report also can provide by customer request. 2 Explanation Of Part Numbers: (EX) Type Size Number of Terminal Type Nominal Resistance Resistance Resistance Packaging(Refer to IE-SP-055) Thick Film Chip 01(0201) 2:2circuits D:Convex 3:3circuits C:Concave 4:3circuits C:Concave 4:4circuits	RALEC	Th	ick Fi	lm Ch	ip	Resistors	Array	Document No.	IE-SP-011
1 Scope: 1.1 This specification is applicable to lead and halogen free RTA series thick film chip resistors array ∘ 1.2 Lead free products mean lead free termination meets RoHS requirement. Pb contained in glass material of resistor element are exempted by RoHS directive. 1.3 The product is for general purpose. 1.4 The available AEC-Q200 report also can provide by customer request. 2 Explanation Of Part Numbers: (EX) Type Size Number of Terminal Type Nominal Resistance Tick Film Chip 01(0201) 2:2circuits 02(0402) 4:4circuits Circuits 02(0402) 4:4circuits 02(0402) 4:4circuits 02(0402) 4:4circuits 02(0402) 4:4circuits 02(0402) 4:4circuits 02(0402) 03(0603) 8:8circuits Circuits 0:0(0603) 8:8circuits 0:Convex 4:- 10KD=1002 0:E ± 5% 0:E ± 5%	旺詮	旺詮 Product Specification Released Date 2015/05/06							
TypeSizeCircuitsTypeNominal ResistanceTolerancePackaging(Refer to IE-SP-055)Thick Film Chip Resistors Array $01(0201)$ $02(0402)$ 2:2circuits $4:4circuits$ $2:2circuits$ $4:4circuits$ $3-$ DigitEX. $10\Omega=100$ $4.7\Omega=4R7$ JUMPER=000 $D=\pm 0.5\%$ $F=\pm 1\%$ $G=\pm 2\%$ TH : 2 mm Pitch Carrier Tape 10000 pcsThick Film Chip Resistors Array $01(0201)$ $02(0402)$ $03(0603)$ $2:2circuits$ $4:4circuits$ $8:8circuits$ $2:2circuits$ $C:Concave3-DigitEX. 10\Omega=1004.7\Omega=4R7JUMPER=000D=\pm 0.5\%F=\pm 1\%TH : 2 mm Pitch Carrier Tape 10000 pcsThe second se$	 1.1 This specification is applicable to lead and halogen free RTA series thick film chip resistors array • 1.2 Lead free products mean lead free termination meets RoHS requirement. Pb contained in glass material of resistor element are exempted by RoHS directive. 1.3 The product is for general purpose. 1.4 The available AEC-Q200 report also can provide by customer request. 2 Explanation Of Part Numbers: (EX) 								
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TypeSizeCircuitsTypeNominal ResistanceTolerancePackaging(Refer to IE-SP-055)Thick Film Chip Resistors Array $01(0201)$ $02(0402)$ 2:2circuits $4:4circuits$ $2:2circuits$ $4:4circuits$ $3-$ DigitEX. $10\Omega=100$ $4.7\Omega=4R7$ JUMPER=000 $D=\pm 0.5\%$ $F=\pm 1\%$ $G=\pm 2\%$ TH : 2 mm Pitch Carrier Tape 10000 pcsThick Film Chip Resistors Array $01(0201)$ $02(0402)$ $03(0603)$ $2:2circuits$ $4:4circuits$ $8:8circuits$ $2:2circuits$ $C:Concave3-DigitEX. 10\Omega=1004.7\Omega=4R7JUMPER=000D=\pm 0.5\%F=\pm 1\%TH : 2 mm Pitch Carrier Tape 10000 pcsThe second se$			Number of	Terminal	<u> </u>		Resistance		= .=
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Гуре	Size			N	ominal Resistance			
		02(0402)	4:4circuits	D.Convex	Digit 4-	4.7Ω=4R7 JUMPER=000 EX. 10.2Ω=10R2	F=± 1% G=± 2%	TH : 2 mm Pitch Carr	ier Tape 10000 pcs

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3 General Specifications:

3.1 Resistance Range: $\geq 1\Omega \& 0\Omega$

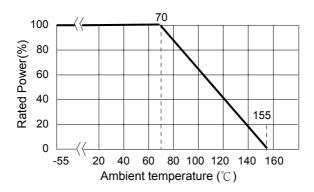
Туре	Rated Power	Max. Working	Max. Overload	T.C.R.		Resistance Range)	Number of	Number of	JUMPER (0Ω)	JUMPE Resis Va	
	at 70℃	Voltage	Voltage	(ppm/℃)	D(±0.5%) E-24 \ E-96	F(±1%) E-24 ∖ E-96	G(±2%) J(±5%) E-24	Terminals	Resistors	Rated Current	F (±1%)	J (±5%)
				±500			$3\Omega{\leq}R{<}10\Omega$					
RTA01-2D (0201)	$\frac{1}{32}$ W	12.5V	25V	±300			$10\Omega{\leq}R{<}1K\Omega$	4	2	0.5A		50mΩ MAX.
. ,				±200			$1K\Omega{\leq}R{\leq}1M\Omega$					
RTA02-2D		25V	50V	±300		$1\Omega{\leq}R{<}10\Omega$	$1\Omega{\leq}R{<}10\Omega$	4	2	1A	25mΩ	50mΩ
(0402)	16 10	250	500	±200		$10\Omega{\leq}R{\leq}10M\Omega$	$10\Omega{\leq}R{\leq}10M\Omega$	4	2	IA	MAX.	MAX.
RTA03-2D (0603)	1 16 W	50V	100V	±200		$10\Omega{\leq}R{\leq}10M\Omega$	$1\Omega{\leq}R{\leq}10M\Omega$	4	2	1A		50mΩ MAX.
RTA02-4D	<u>1</u> W	25V	50V	±300		$1\Omega{\leq}R{<}10\Omega$	$1\Omega{\leq}R{<}10\Omega$	8	4	1A	25mΩ	50mΩ
(0402)	16 10	250	500	±200		$10\Omega{\leq}R{\leq}10M\Omega$	$10\Omega{\leq}R{\leq}10M\Omega$	0	-		MAX.	MAX.
RTA02-4C	1 16 W	25V	50V	±400		$1\Omega{\leq}R{<}10\Omega$	$1\Omega{\leq}R{<}10\Omega$	8	4	1A		50mΩ
(0402)	16 "	237	30 V	±200		$10\Omega{\leq}R{\leq}1M\Omega$	$10\Omega{\leq}R{\leq}1M\Omega$	0	-			MAX.
RTA03-4D (0603)	1 16 W	50V	100V	±200	22Ω≦R≦470KΩ	$1\Omega{\leq}R{\leq}10M\Omega$	$1\Omega{\leq}R{\leq}10M\Omega$	8	4	1A	25mΩ MAX	50mΩ MAX.
RTA03-4C (0603)	<u>1</u> 16 W	50V	100V	±200		$1\Omega{\leq}R{\leq}1M\Omega$	$1\Omega{\leq}R{\leq}10M\Omega$	8	4	1A		50mΩ MAX.
RTA02-8D (0402)	<u>1</u> 16 W	25V	50V	±250		$10\Omega{\leq}R{\leq}10M\Omega$	$1\Omega{\leq}R{\leq}10M\Omega$	16	8	1A		50mΩ MAX.
RTA03-8C (0603)	1 16 W	50V	100V	±200		$1\Omega{\leq}R{\leq}1M\Omega$	$1\Omega{\leq}R{\leq}10M\Omega$	16	8	1A		50mΩ MAX.
RTA03-2C (0603)	1 16 W	50V	100V	±200		$1\Omega{\leq}R{\leq}1M\Omega$	$1\Omega{\leq}R{\leq}10M\Omega$	4	2	1A		50mΩ MAX.
RTA02-2C	<u>1</u> W	25V	50V	±650		$3\Omega{\leq}R{\leq}10\Omega$	$3\Omega{\leq}R{<}10\Omega$	4	2	1A		50mΩ
(0402)	1 16 W	201	50 V	±200		$10\Omega{\leq}R{<}1M\Omega$	$10\Omega{\leq}R{\leq}1M\Omega$	4	2	IA		MAX.
Oper	ating Ten	nperature R	lange				− 55℃ ~ +155℃	;				

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3.2 Power Derating Curve:

Operating Temperature Range : -55~155 ℃

For resistors operated in ambient temperatures above 70 $^\circ\!C$, power rating shall be derated in accordance with figure below $_\circ$



3.3 Voltage Rating or Current Rating:

3.3.1 Resistance Range: $\geq 1\Omega$

Rated Voltage: The resistor shall have a DC continuous working voltage or a rms. AC continuous working voltage at commercial-line frequency and wave form corresponding to the power rating, as determined from the following:

$$E = \sqrt{R \times P}$$

E= Rated voltage (V) P= power rating (W) R= Nominal resistance(Ω)

3.3.2 Resistance Range: (0Ω)

Rated Current: The resistor shall have a DC continuous working current or a rms.AC continuous working current at commercial-line frequency and wave form corresponding to the power rating, as determined from the following:

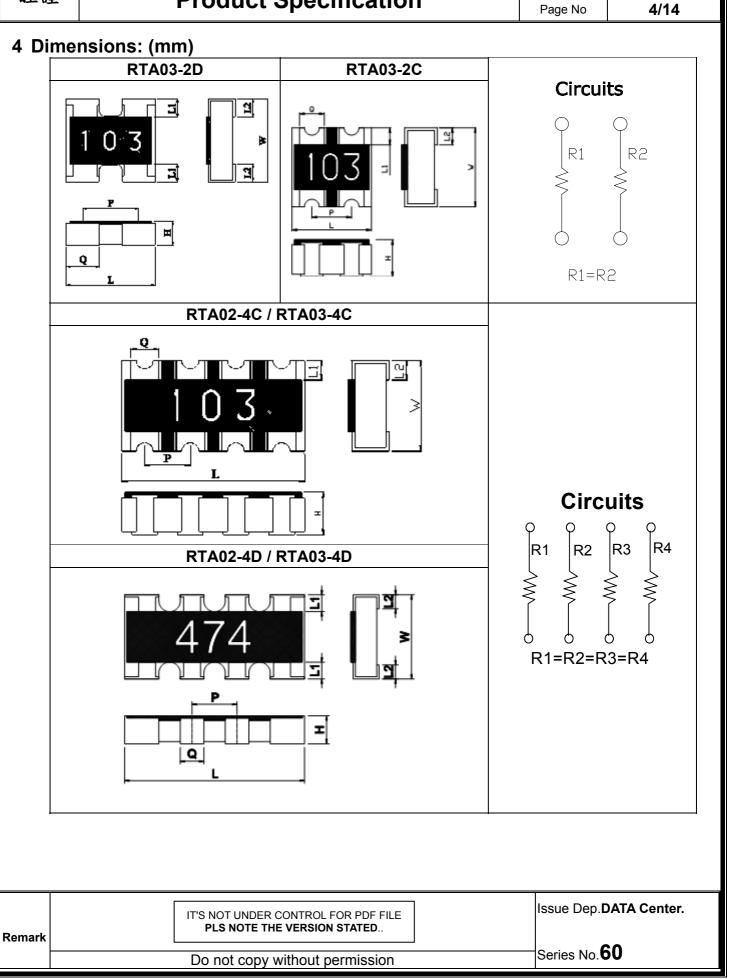
$$I = \sqrt{P/R}$$

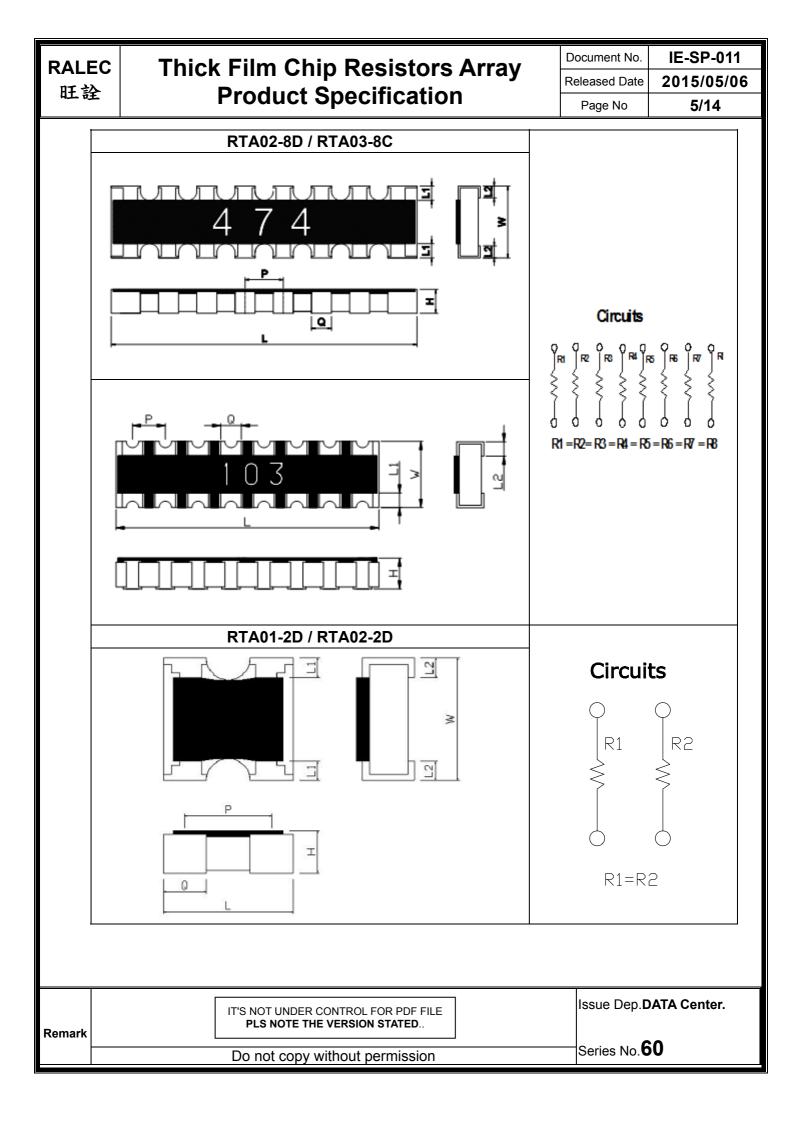
I= Rated current (A) P= Power rating (w) R= Nominal resistance(Ω)

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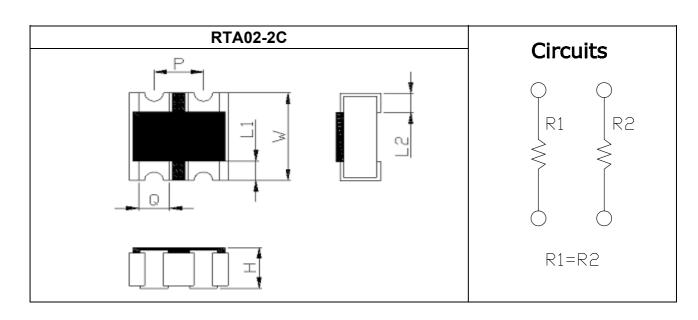
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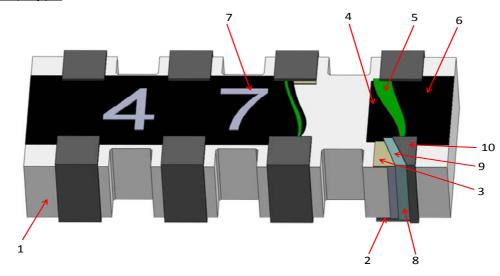
Dim Type	L	W	Н	L1	L2	Р	Q
RTA01-2D (0201)	0.80±0.10	0.60±0.10	0.30±0.05	0.15±0.10	0.15±0.05	(0.50)	0.35±0.10
RTA02-2D (0402)	1.00±0.10	1.00±0.10	0.30±0.05	0.15±0.10	0.25±0.10	(0.67)	0.33±0.10
RTA03-2D (0603)	1.60±0.15	1.60±0.15	0.45±0.10	0.30±0.15	0.30±0.15	(0.80)	0.60±0.10
RTA02-4D (0402)	2.00±0.10	1.00±0.10	0.40±0.10	0.20±0.10	0.25±0.10	(0.50)	0.30±0.10
RTA02-4C (0402)	2.00±0.10	1.00±0.10	0.40±0.10	0.15±0.10	0.25±0.10	(0.50)	0.30±0.10
RTA03-4D (0603)	3.20±0.20	1.60±0.15	0.50±0.10	0.30±0.15	0.30±0.15	(0.80)	0.50±0.10
RTA03-4C (0603)	3.20±0.15	1.60±0.15	0.55±0.10	0.35±0.15	0.45±0.15	(0.80)	0.50±0.10
RTA02-8D (0402)	4.00±0.20	1.60±0.10	0.40±0.10	0.30±0.15	0.30±0.10	(0.50)	0.25±0.10
RTA03-8C (0603)	6.40±0.20	1.60±0.20	0.55±0.10	0.30±0.15	0.40±0.15	(0.80)	0.50±0.10
RTA03-2C (0603)	1.60±0.15	1.60±0.15	0.55±0.10	0.30±0.15	0.40±0.15	(0.80)	0.50 <u>+</u> 0.10
RTA02-2C (0402)	1.00±0.10	1.00±0.10	0.30±0.10	0.18±0.10	0.25±0.10	(0.50)	0.30±0.10

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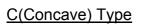
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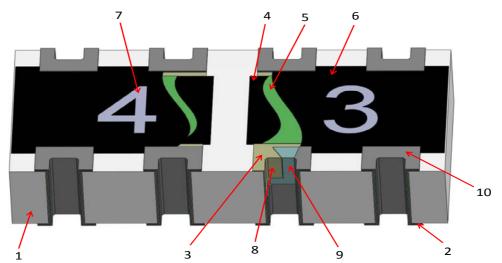
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	ture Graph: Convex) Type		



1	Ceramic substrate	6	2nd Protective coating
2	Bottom inner electrode	7	Marking
3	Top inner electrode	8	Terminal inner electrode
4	Resistive layer	9	Ni plating
5	1st Protective coating	10	Sn plating





1	Ceramic substrate	6	2nd Protective coating
2	Bottom inner electrode	7	Marking
3	Top inner electrode	8	Terminal inner electrode
4	Resistive layer	9	Ni plating
5	1st Protective coating	10	Sn plating

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6 Reliability Test:

6.1 Electrical Performance Test

	Item	Conditions	Specifica	tions
			Resistors	Jumper
	Resistance		Refer item 3. General Specifications	NA.
	Short Time Overload	release the load for about 30 minutes, then measure its resistance variance rate. (Rated voltage refer to item 3, general specifications)	$0.5\% \times 1\%:\pm(1.0\%+0.05\Omega)$ 2% $\times 5\%:\pm(2.0\%+0.10\Omega)$ No evidence of mechanical of No short or burned on the ap	
	Resistance	Put the resistor in the fixture, add 100 VDC in + ,- terminal for 60 sec then measured the insulation resistance between electrodes and insulating enclosure or between electrodes and base material. Refer to JIS-C5201-1 4.6 Metal block measuring Point A Base material Insulating enclosure surface Refer to JIS-C5201-1 4.6	≧10 ⁹ Ω	
	Dielectric Withstand Voltage	Put the resistor in the fixture, add 300 VAC in +,- terminal for 60 sec. Refer to JIS-C5201-1 4.7	No short or burned on the ap	ppearance.
	Intermittent Overload	Put the tested resistor in chamber under temperature $25\pm2^{\circ}$ C and load 2.5 times rated DC voltage for 1 sec on , 25 sec off , 10000^{+400}_{-0} test cycles, then it be left at no-load for 1 hour , then measure its resistance variance rate. Refer to JIS-C5201-1 4.13	No evidence of mechanical o	Refer to item 3. General Specifications damage. opearance.
	Noise Level	Refer to JIS-C5201-1 4.12	$\begin{tabular}{ c c c c c } \hline Resistance & Noise \\ \hline R < 100 \Omega & \leq & -10db & (0. \\ \hline 100 \Omega & \leq R < 1K\Omega & \leq & 0db & (1. \\ \hline 1K\Omega & \leq R < 10K\Omega & \leq & 10db & (3. \\ \hline 10K\Omega & \leq R < 100K\Omega & \leq & 15db & (5. \\ \hline 100K\Omega & \leq R < 1M\Omega & \leq & 20db & (10. \\ \hline 1M\Omega & \leq R & \leq & 30db & (3. \\ \hline \end{tabular}$	32 uV/V) 0 uV/V) 2 uV/V) 6 uV/V) 0 uV/V)
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6.2 Mechanical Performance Test

Itom	Conditions	Specifications			
Item	Conditions	Resistors	Jumper		
Resistance to Solvent	The tested resistor be immersed into isopropyl alcohol of $20~25^{\circ}$ for 5 minutes, then the resistor is left in the room for 48 hrs , then measure its	01-2D:±(1.0%+0.05Ω) Other:±(0.5%+0.05Ω)	Refer to item 3 General Specifications		
	resistance variance rate. Refer to JIS-C5201-1 4.29	No evidence of mechanical damage. No G2 overcoating and Sn layer by leaching.			
Solderability	Preconditioning: Put the tested resistor in the apparatus of PCT, at a temperature of 105° C, humidity of 100% RH, and pressure of 1.22×10^5 Pa for a duration of 4 hours. Then after left the tested resistor in room temperature for 2 hours or more.	Solder coverage over 95%			
	Test method: The resistor be immersed into solder pot in temperature $235\pm5^{\circ}$ for 2 sec, then the resistor is left as placed under microscope to observed its solder area. Refer to JIS-C5201-1 4.17				
Resistance to Soldering Heat	 ○Test method 1 (solder pot test): The tested resistor be immersed into molten solder of 260+5/-0°C for 10 seconds. Then the resistor is left in the room for 1 hour. ○Test method 2 (solder pot test): 	 Test item 1: (1).Vaviance rate on resistance	Refer to item 3. General Specifications		
	The tested resistor be immersed into molten solder of $260+5/-0^{\circ}$ for 30 seconds. Then the resistor is left as placed under microscope to observe its solder area. Refer to JIS-C5201-1 4.18	 Test item 2: (1).Solder coverage over 95%. (2).The underlying material (such as ceramic) shall not be visible at the crest corner area of the electrode. 			

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Itom	Conditions	Specification	S
Item	Conditions	Resistors	Jumper
Joint Strength of Solder	Preconditioning: Put the tested resistor in the apparatus of PCT, at a temperature of 105°C, humidity of 100% RH, and pressure of 1.22×10 ⁵ Pa for a duration of 4 hours. Then after left the tested resistor in room temperature for 2 hours or more. Test method: Test item 1 (Adhesion): A static load using a R0.5 scratch tool shall be applied on the core of the component and in the direction of the arrow and held for 10 seconds and under load measure its resistance variance rate. 1.02-2C=10N load 2.0ther=20N load 3.01-2D=5Nload Cross=seclared view Strotching I'9 Refer to JIS-C5201-1 4.32 Test item 2 (Bending Strength): Solder tested resistor on the PC board, add force in the middle down, and under load measure its resistance variance rate D=(1)01-2D=3mm (2)Other=5mm Refer to JIS-C5201-1 4.33 Refer to JIS-C5201-1 4.33	Test item 1: (1).Vaviance rate on resistance ΔR%=±(1.0%+0.05Ω) (2).No evidence of mechanical damage. No terminal peeling off. Test item 2: (1).Vaviance rate on resistance ΔR%=±(1.0%+0.05Ω) (2).No evidence of mechanical damage. No terminal peeling off and core body cracked.	Refer to item 3. general specifications
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6.3 Environmental Test

Itom	Conditions	Spee	cifications	
item	Item Conditions -		Resistors Jumper	
Resistance to Dry Heat	Put tested resistors in chamber under temperature 155 °C for 1,000±4 hours. Then leaving in room temperatur for 60 minutes, and measure its resistance variance rat Refer to JIS-C5201-1 4.25	e 2%、5%:±(2.0%+0.10Ω	5Ω) Refer to item 3. 2) general specifications nical damage.	
Thermal Shock	For the tested resistor in the thermal shock chamber under the temperature cycle which shown in the following table shall be repeated 300 times consecutively. Then leaving the tested resistor in the room temperature for thours, and measure its resistance variance rate. Image: Temperature is resistance is resistance variance rate. Refer to MIL-STD 202 Method 107 Put the tested resistor in the chamber under temperature 40±2°C, relative humidity 90~95% and load the rated voltage for 90 minutes on, 30 minutes off, total 1000 hours. Then leaving the tested resistor in room temperature for 60 minutes, and measure its resistance variance rate. Refer to JIS-C5201-1 4.24	±(1.0%+0.05Ω) No evidence of mecha No short or burned on	Refer to item 3. general specifications nical damage. the appearance. 0Ω) Refer to item Ω) 3. general specifications` nical damage.	
Load Life	Put the tested resistor in chamber under temperature 70±2°C and load the rated voltage for 90 minutes on, 30 minutes off, total 1000 hours. Then leaving the tested resistor in room temperature for 60 minutes, and measure its resistance variance rate. Refer to JIS-C5201-1 4.25	0.5% \ 1%:±(2.0%+0.10) 2% \ 5% :±(3.0%+0.10) No evidence of mecha No short or burned on	a) 3. general specifications	
Low Temperature Operation	Put the tested resistor in the chamber at room temperature 25°C.Decreasing the temperature to -55°C and keep the temperature at -55°C for 1 hour. Then load the rated voltage for 45 minutes on, and 15 minute off. Then leaving the tested resistor in room temperature for 8±1 hours, and measure its resistance variance rate		2) 3. general specifications nical damage.	
Whisker Test	Refer to MIL-R-55342D 4.7.4 Test item (Thermal Shock test): Minimum storage temperature -55+0/-10°C Maximum storage temperature 85+10/-0°C Temperature-retaining time 10 min. Number of temperature cycles 1,500 Inspection: Inspect for whisker formation on specimens that underwent the acceleration test specified in subciause 4.2, with a magnifier (stereo microscope) of about 40 or higher magnification. If judgment is hard in this method, use a scanning electron microscope (SEM) of about 1,000 or higher magnification. By JEDEC Standard NO.22A121 class 2.	Max. 50µm		
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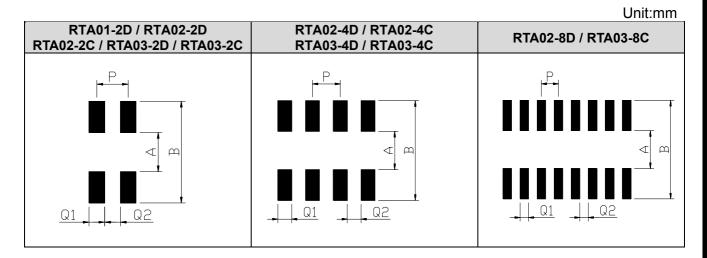
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7.1 Lead 230 200 Temperature (C) 100 300 Rem	230°C Or Higher 180°C		
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8 Recommend Land Pattern Design (For Reflow Soldering) :



DIM	А	В	Р	Q1	Q2
RTA01-2D	0.30	0.90	0.50	0.30	0.20
RTA02-2D	0.50	2.00	0.67	0.33	0.34
RTA03-2D	1.00	2.60	0.80	0.40	0.40
RTA02-4D RTA02-4C	0.50	2.00	0.50	0.28	0.22
RTA03-4D RTA03-4C RTA03-2C	1.00	2.60	0.80	0.40	0.40
RTA03-8C	1.00	2.60	0.80	0.40	0.40
RTA02-8D	1.00	2.60	0.50	0.25	0.25
RTA02-2C	0.50	2.00	0.50	0.28	0.22

9 Plating Thickness:

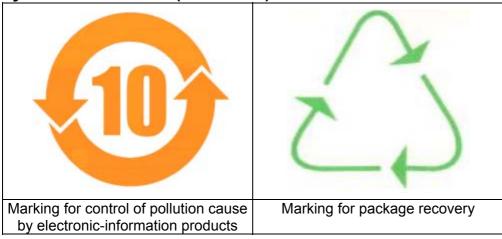
9.1 Ni: ≥2 μ m
9.2 Sn(Tin): ≥3 μ m
9.3 Sn(Tin): Matte Sn

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10 Stock period:

10.1 The temperature condition must be controlled at 25±5°C, the R.H. must be controlled at 60±15%. The stock can maintain quality level in two years ∘

11 The carton packaged for electronic-information products is made by the symbol as follows: (For china)



12 Attachments:

12.1 Document Revise Record Paper (QA-QR-027)

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