

RALEC

IE-SP-008

2015/05/06

1/14

1 :

1.1

RTA

1.2

RoHS

RoHS

1.3

1.4 AEC-Q200

2 :

RTA

02

-

4

D

100

J

TH

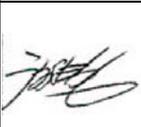
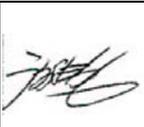
	01(0201) 02(0402) 03(0603)	2:2 4:4 8:8	D: C:	3-	EX. 10 =100 4.7 =4R7 JUMPER=000	D=± 0.5% F=± 1% G=± 2% J=± 5%	TH 2 mm Pitch Carrier Tape 10000 pcs
				4-	EX. 10.2 =10R2 10K =1002 JUMPER=0000		

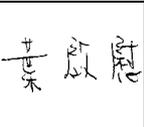
IE

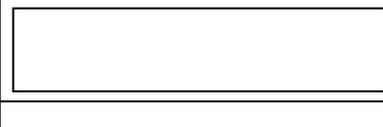
QA

Sales

DATA Center.

Series No. 60

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							2015/05/06	
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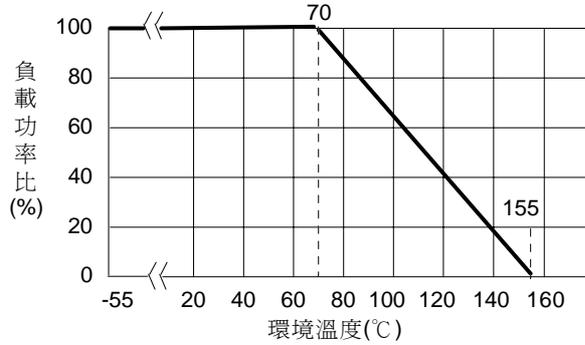
3 :

3.1 : 1 & 0

				T.C.R (ppm/°C)					Number of Terminals	Number of Resistors	JUMPER (0)	JUMPER (0)	
					D(±0.5%) E-24	E-96	F(±1%) E-24	E-96				G(±2%) E-24	J(±5%) E-24
RTA01-2D (0201)	$\frac{1}{32}$ W	12.5V	25V	±500	-----	-----	3 ≤ R 10		4	2	0.5A	-----	50m MAX.
				±300	-----	-----	10 ≤ R 1K						
				±200	-----	-----	1K ≤ R ≤ 1 M						
RTA02-2D (0402)	$\frac{1}{16}$ W	25V	50V	±300	-----	1 ≤ R 10		4	2	1A	25m MAX.	50m MAX.	
				±200	-----	10 ≤ R ≤ 10M							10 ≤ R ≤ 10M
RTA03-2D (0603)	$\frac{1}{16}$ W	50V	100V	±200	-----	10 ≤ R ≤ 10M		4	2	1A	-----	50m MAX.	
RTA02-4D (0402)	$\frac{1}{16}$ W	25V	50V	±300	-----	1 ≤ R 10		8	4	1A	25m MAX.	50m MAX.	
				±200	-----	10 ≤ R ≤ 10M							10 ≤ R ≤ 10M

<div style="border: 1px solid black; width: 200px; height: 20px; margin: 0 auto;"></div>		DATA Center.
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3.2 :
 -55 155 °C
 70°C 155°C



3.3 :

3.3.1 : ≥ 1
 : (rms.)

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

E= (V)
 P= (W)
 R= ()

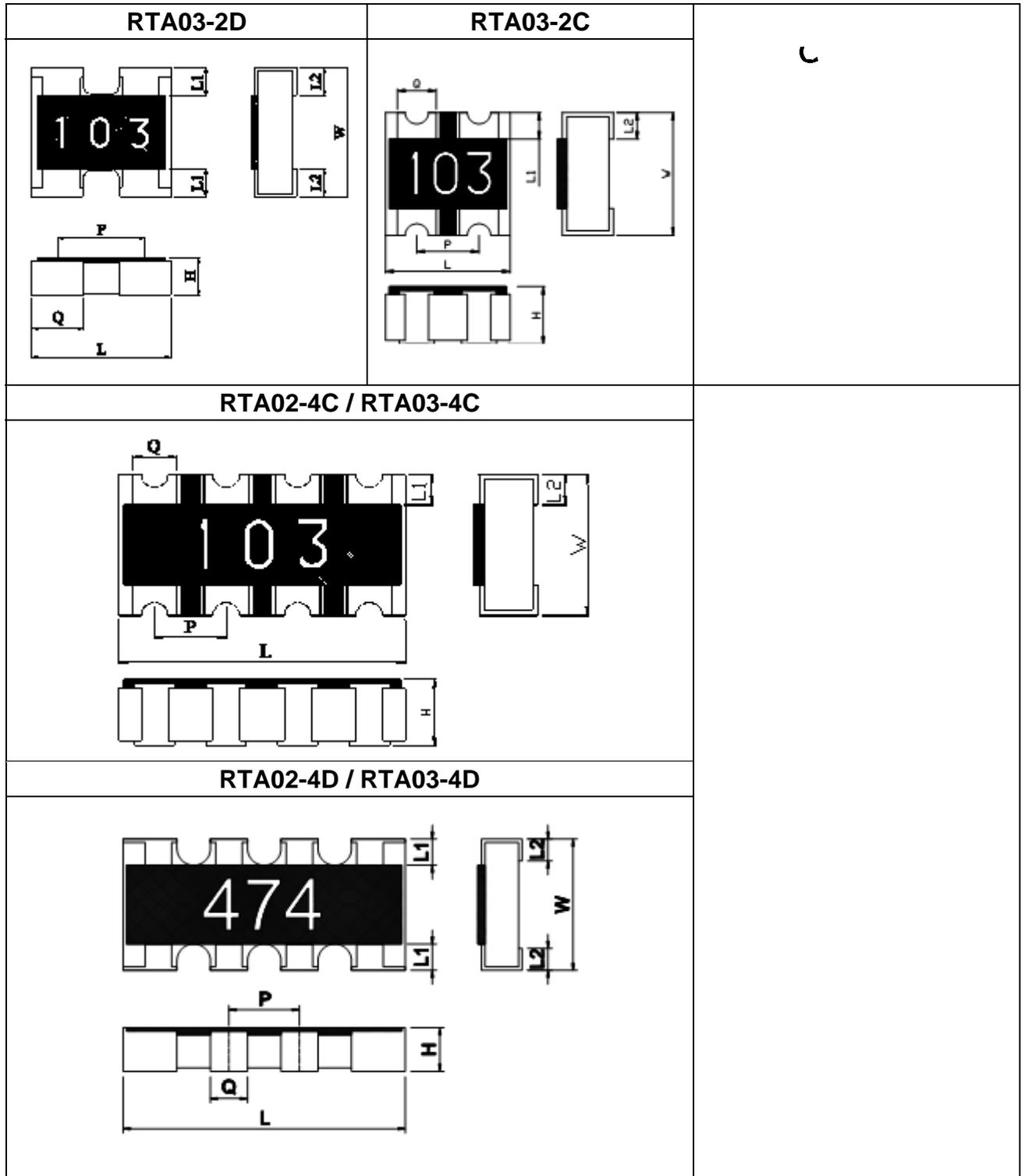
3.3.2 : (0)
 : (rms.)

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

I= (A)
 P= (W)
 R= ()

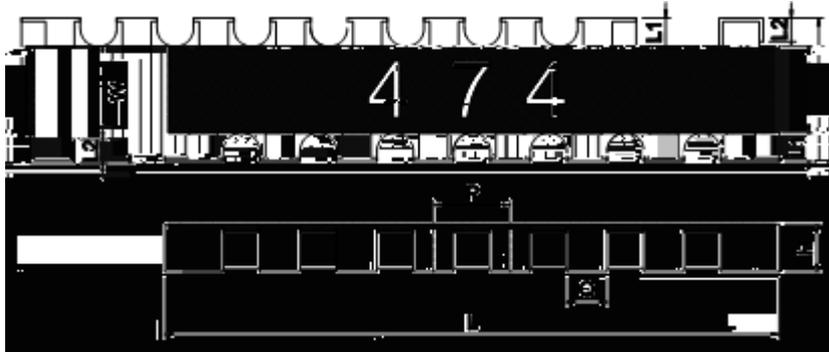
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4 : (mm)

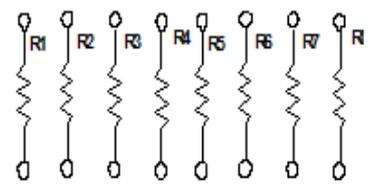


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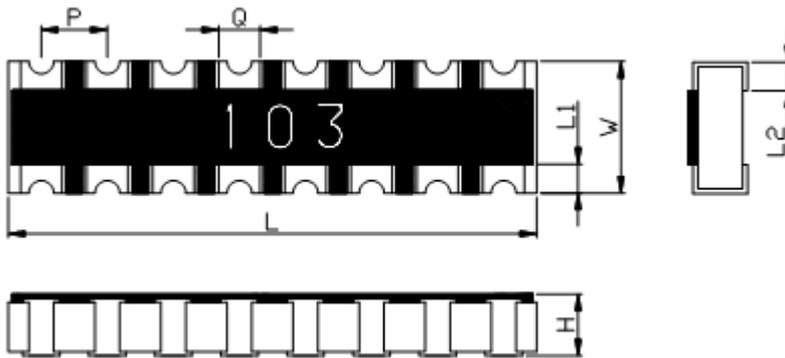
RTA02-8D / RTA03-8C



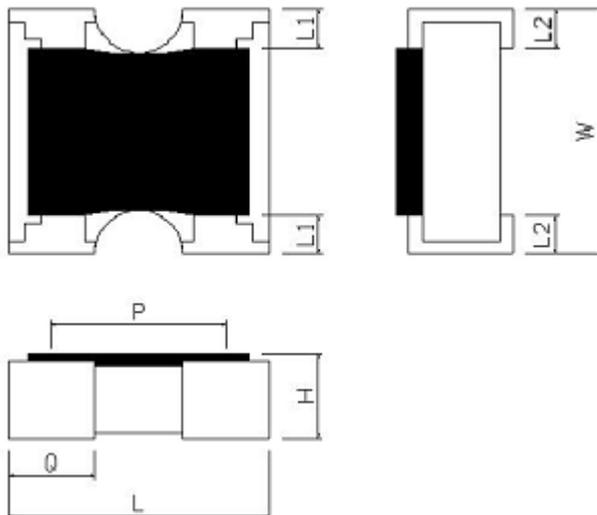
Circuits



$R1 = R2 = R3 = R4 = R5 = R6 = R7 = R8$

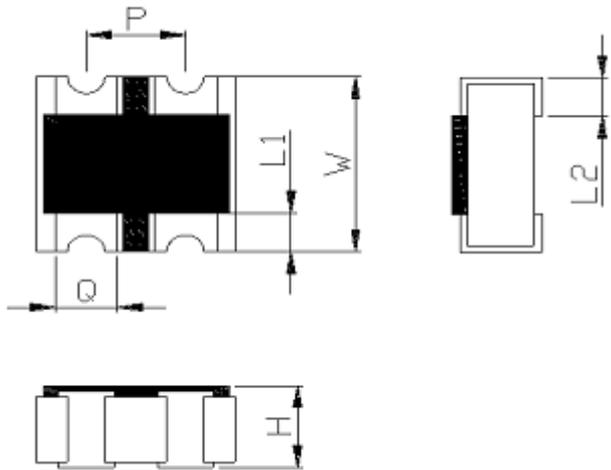


RTA01-2D / RTA02-2D

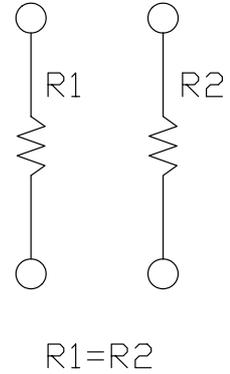


Circuits

RTA02-2C



Circuits

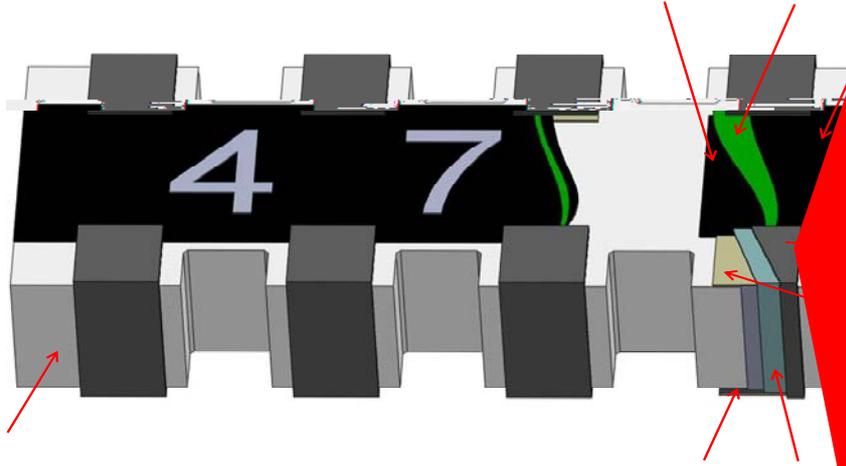


	L	W	H	L1	L2	P	Q
RTA01-2D (0201)	0.80±0.10	0.60±0.10	0.30±0.05	0.15±0.10	0.15±0.05	(0.50)	0.35±0.10
RTA02-2D (0402)	1.00±0.10	1.00±0.10	0.30±0.05	0.15±0.10	0.25±0.10	(0.67)	0.33±0.10
RTA03-2D (0603)	1.60±0.15	1.60±0.15	0.45±0.10	0.30±0.15	0.30±0.15	(0.80)	0.60±0.10
RTA02-4D (0402)	2.00±0.10	1.00±0.10	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 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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5 :

D(Convex) Type



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6

6.1 (Electrical Performance Test)

Item	Conditions	Specifications	
		Resistors	Jumper
Temperature Coefficient of Resistance	TCR ppm/°C $\frac{(R2 - R1)}{R1 (T2 - T1)} \times 10$		

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6.2 (Mechanical Performance Test)

Item	Conditions	Specifications	
		Resistors	Jumper
Resistance to Solvent	20~25°C hrs 5±0.5 48 JIS-C5201-1 4.29	01-2D:±(1.0%+0.05) :±(0.5%+0.05) G2 Sn Leaching	3.
Solderability	: 100% PCT 1.22×10 ⁵ pa 105°C 4 2 ◎ : 235±5°C 2±0.5 JIS-C5201-1 4.17	95%	
Resistance to Soldering Heat	◎ (): 260+5/-0°C 10 +1/-0 60 ◎ () 260+5/-0°C 30+1/-0 JIS-C5201-1 4.18	: (1). ΔR%=±(1.0%+0.05) (2). : (1). 95% (2). ()	3.

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Item	
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Joint Strength
of Solder

:
100% 1



(

Conditions

10^5 pa

105°C

2

):

R0.5

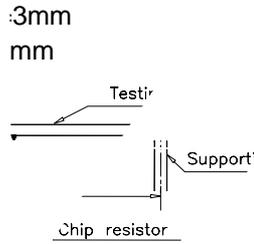
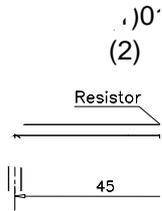
10 sec

:1.02-2C=10N

2. =

3.01-2D=5N

);



Chip resistor

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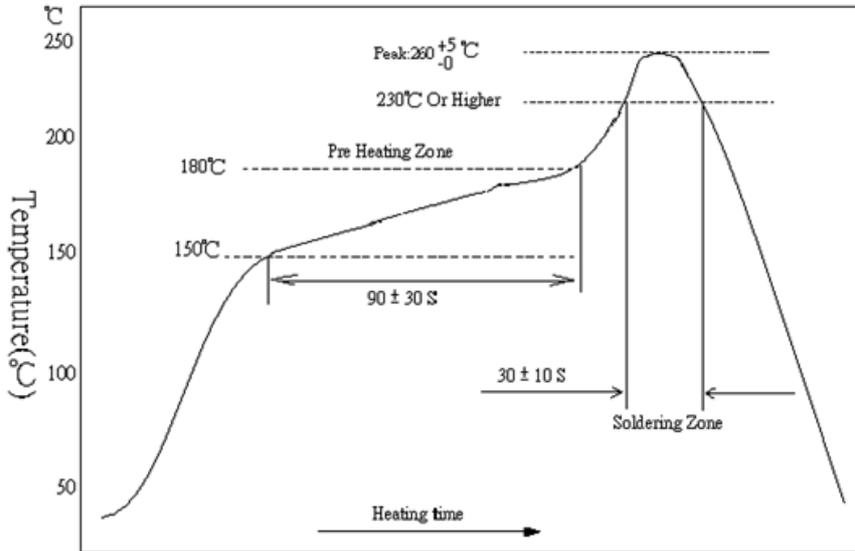
6.3 (Environmental Test)

Item	Conditions	Specifications									
		Resistors	Jumper								
Resistance to Dry Heat	155±5°C 1000±4 hr 1 hr JIS-C5201-1 4.25	0.5% 1%:±(1.0%+0.05) 2% 5%:±(2.0%+0.10)	3.								
Thermal Shock	+125°C 15 300 60 -55°C 15 <table border="1" data-bbox="357 568 898 719"> <tr><td></td><td></td></tr> <tr><td></td><td>-55±5°C</td></tr> <tr><td></td><td>125±5°C</td></tr> <tr><td></td><td>15</td></tr> </table> MIL-STD 202 Method 107				-55±5°C		125±5°C		15	±(1.0% 0.05)	3.
	-55±5°C										
	125±5°C										
	15										
Loading Life in Moisture	40±2°C 90~95% 90 ON 30 OFF 1,000 hr 60 JIS-C5201-1 4.24	0.5% 1%:±(2.0%+0.10) 2% 5%:±(3.0%+0.10)	3.								

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7 :

7.1 Lead Free IR-Reflow Soldering Profile



: 260 +5/-0 ,10

7.2 :350 10 3

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8 Land Pattern Design (For Reflow Soldering)

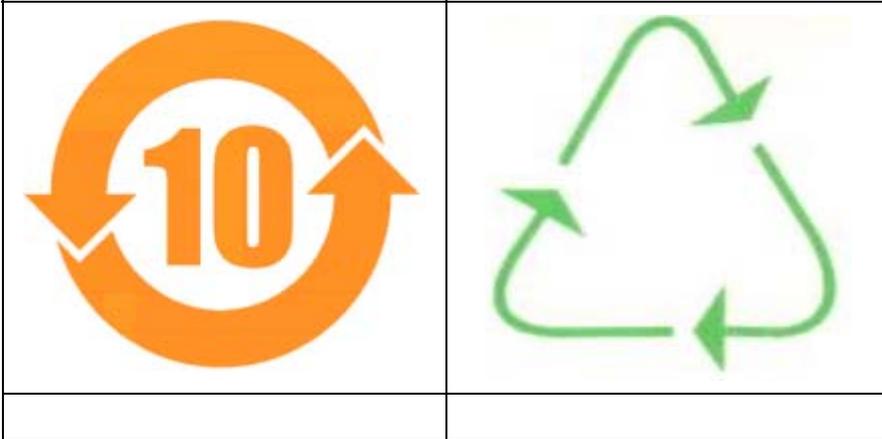
Unit:mm

RTA01-2D / RTA02-2D RTA02-2C / RTA03-2D / RTA03-2C	RTA02-4D / RTA02-4C RTA03-4D / RTA03-4C	RTA02-8D / RTA03-8C
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10 :

10.1 25 5 60 15%.

11 :()



12 :

12.1 (QA-QR-027)