

Chip Resistors Array



RTA Series

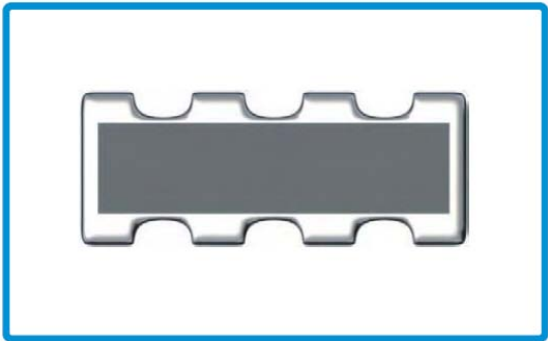
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Feature

- 1.High reliability and stability
- 2.Efficiency, space and cost saving.

Applications

- 1. Computer applications, hard disk, add-on card
- 2. Mobil phone, Telecom...
- 3. Consumer electrical equipments, PDAs,..



Parts Numbering System

(EX)	RTA	03	4	D	101	J	TP
Type	Size	Number of Circuits	Terminal Type	Nominal Resistance		Resistance Tolerance	Packaging
Lead-Free Thick Thick Film Chip Resistors Array	01(0201) 02(0402) 03(0603)	2: 2 circuits 4: 4 circuits 8: 8 circuits	D:Convex C:Concave	Resistors	3- Digit	E24 Series EX 10 Ω =100 4.7 Ω =4R7	D=± 0.5% F=± 1% G=± 2% J=± 5%
					4- Digit	E24/E96 Series EX 10.2 Ω =10R2 10K Ω =1002	
				Jumper		000	
							TH 2 mm Pitch Paper(Taping) 10000 pcs H2 2 mm Pitch Paper(Taping) 20000 pcs H3 2 mm Pitch Paper(Taping) 30000 pcs H4 2 mm Pitch Paper(Taping) 40000 pcs TP 4 mm Pitch Paper(Taping) 5000 pcs P2 4 mm Pitch Paper(Taping) 10000 pcs P3 4 mm Pitch Paper(Taping) 15000 pcs P4 4 mm Pitch Paper(Taping) 20000 pcs

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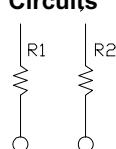
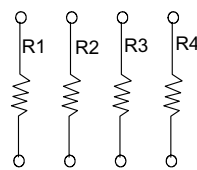
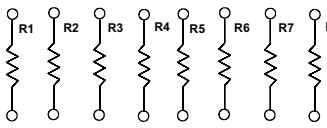
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General Specifications

Type	Rated Power at 70℃	Max. Working Voltage	Max. Overload Voltage	T.C.R. (ppm/℃)	Resistance Range			Number of Terminals	Number of Resistors	JUMPER (0Ω) Rated Current	JUMPER (0Ω) Resistance Value
					D(± 0.5%) E-24、E-96	F(± 1%) E-24、E-96	G(± 2%) J(± 5%) E-24				
RTA01-2D (0201)	1/32W	12.5V	25V	± 500	----	----	$3\Omega \leq R < 10\Omega$	4	2	0.5A	50mΩ Max.
				± 300	----	----	$10\Omega \leq R < 1K\Omega$				
				± 200	----	----	$1K\Omega \leq R \leq 1M\Omega$				
RTA02-2D (0402)	1/16W	25V	50V	± 300	----	$1\Omega \leq R < 10\Omega$	$1\Omega \leq R < 10\Omega$	4	2	1A	50mΩ Max.
				± 200	----	$10\Omega \leq R \leq 1M\Omega$	$10\Omega \leq R \leq 1M\Omega$				
RTA03-2D (0603)	1/16W	50V	100V	± 200	----	$10\Omega \leq R \leq 1M\Omega$	$1\Omega \leq R \leq 10M\Omega$	4	2	1A	50mΩ Max.
RTA02-4D (0402)	1/16W	25V	50V	± 300	----	$1\Omega \leq R < 10\Omega$	$1\Omega \leq R < 10\Omega$	8	4	1A	50mΩ Max.
				± 200	----	$10\Omega \leq R \leq 1M\Omega$	$10\Omega \leq R \leq 1M\Omega$				
RTA02-4C (0402)	1/16W	25V	50V	± 400	----	$1\Omega \leq R < 10\Omega$	$1\Omega \leq R < 10\Omega$	8	4	1A	50mΩ Max.
				± 200	----	$10\Omega \leq R \leq 1M\Omega$	$10\Omega \leq R \leq 1M\Omega$				
RTA03-4D (0603)	1/16W	50V	100V	± 200	$22\Omega \leq R \leq 470K\Omega$	$1\Omega \leq R \leq 10M\Omega$	$1\Omega \leq R \leq 10M\Omega$	8	4	1A	50mΩ Max.
RTA03-4C (0603)	1/16W	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)	1/16W	25V	50V	± 250	----	$10\Omega \leq R \leq 1M\Omega$	$1\Omega \leq R \leq 1M\Omega$	16	8	1A	50mΩ Max.
RTA03-8C (0603)	1/16W	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)	1/16W	50V	100V	± 200	----	$1\Omega \leq R \leq 1M\Omega$	$1\Omega \leq R \leq 10M\Omega$	4	2	1A	50mΩ Max.
RTA02-2C (0402)	1/16W	25V	50V	± 650	----	$3\Omega \leq R < 10\Omega$	$3\Omega \leq R < 10\Omega$	4	2	1A	50mΩ Max.
				± 250		$10\Omega \leq R \leq 1M\Omega$	$10\Omega \leq R \leq 1M\Omega$				
Operating Temperature Range					-55℃ ~ +155℃						

Dimensions

RTA01-2D/RTA02-2D/RTA03-2D/RTA03-2C	Circuits  $R1=R2$
RTA02-4C/RTA03-4C	Circuits  $R1=R2=R3=R4$
RTA02-4D/RTA03-4D	
RTA02-8D/RTA03-8C	Circuits  $R1 = R2 = R3 = R4 = R5 = R6 = R7 = R8$

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Dimensions

TYPE \ DIM	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

Unit:mm

Chip Resistors Array



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Recommended 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

TYPE \ DIM	A	B	P	Q1	Q2
RTA01-2D	0.30	0.90	0.50	0.30	0.30
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
RTA02-8D	1.00	2.60	0.50	0.25	0.25
RTA03-8C	1.00	2.60	0.80	0.40	0.40
RTA02-2C	0.50	2.00	0.50	0.28	0.22

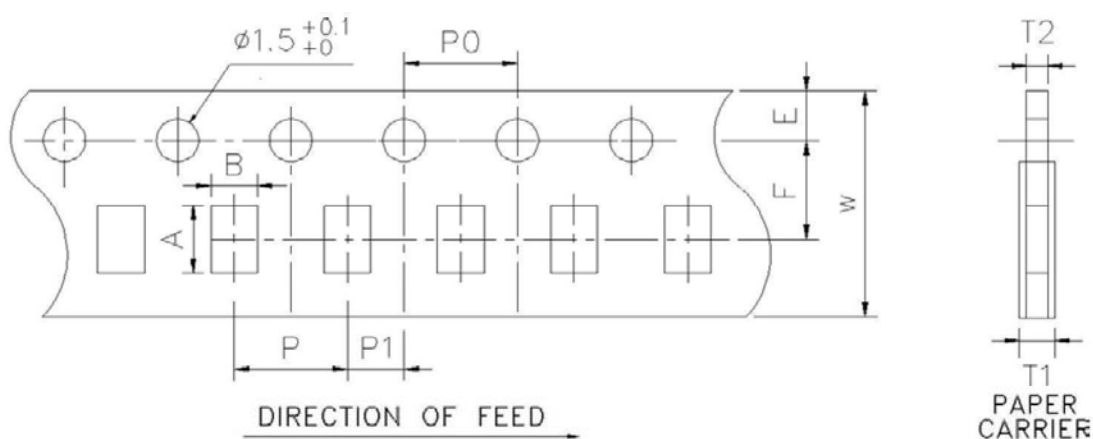
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Taping



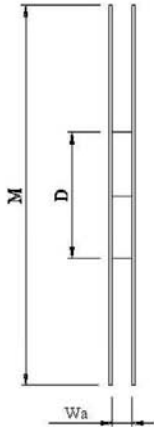
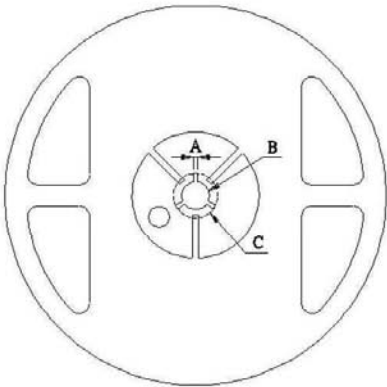
Unit : mm

Packaging	DIM Type	A	B	W	E	F	T1	T2	P	P0	10x P0	P1
Paper Tape	RTA01-2D	0.90± 0.1	0.70± 0.1	8.0± 0.2	1.75± 0.1	3.5± 0.05	0.45+0.2/-0	0.43± 0.1	2.0± 0.1	4.0± 0.05	40.0± 0.20	2.0± 0.05
	RTA02-2D	1.20± 0.1	1.20± 0.1	8.0± 0.2	1.75± 0.1	3.5± 0.05	0.45+0.2/-0	0.43± 0.1	2.0± 0.1	4.0± 0.05	40.0± 0.20	2.0± 0.05
	RTA03-2D	1.90± 0.1	1.90± 0.1	8.0± 0.2	1.75± 0.1	3.5± 0.05	0.60+0.2/-0	0.60± 0.1	4.0± 0.1	4.0± 0.05	40.0± 0.20	2.0± 0.05
	RTA02-4D	2.20± 0.1	1.20± 0.1	8.0± 0.2	1.75± 0.1	3.5± 0.05	0.60+0.2/-0	0.60± 0.1	2.0± 0.1	4.0± 0.05	40.0± 0.20	2.0± 0.05
	RTA02-4C	2.20± 0.1	1.20± 0.1	8.0± 0.2	1.75± 0.1	3.5± 0.05	0.60+0.2/-0	0.60± 0.1	2.0± 0.1	4.0± 0.05	40.0± 0.20	2.0± 0.05
	RTA03-4D	3.45± 0.1	1.90± 0.1	8.0± 0.2	1.75± 0.1	3.5± 0.05	0.75+0.2/-0	0.75± 0.1	4.0± 0.1	4.0± 0.05	40.0± 0.20	2.0± 0.05
	RTA03-4C	3.45± 0.1	1.90± 0.1	8.0± 0.2	1.75± 0.1	3.5± 0.05	0.75+0.2/-0	0.75± 0.1	4.0± 0.1	4.0± 0.05	40.0± 0.20	2.0± 0.05
	RTA02-8D	4.30± 0.2	1.90± 0.2	12.0± 0.2	1.75± 0.1	5.5± 0.05	0.60+0.2/-0	0.60± 0.1	4.0± 0.1	4.0± 0.05	40.0± 0.20	2.0± 0.05
	RTA03-8C	6.90± 0.2	2.00± 0.2	12.0± 0.2	1.75± 0.1	5.5± 0.05	0.75+0.2/-0	0.75± 0.1	4.0± 0.1	4.0± 0.05	40.0± 0.20	2.0± 0.05
	RTA03-2C	1.90± 0.1	1.90± 0.1	8.0± 0.2	1.75± 0.1	3.5± 0.05	0.75+0.2/-0	0.75± 0.1	4.0± 0.1	4.0± 0.05	40.0± 0.20	2.0± 0.05
	RTA02-2C	1.20± 0.1	1.20± 0.1	8.0± 0.2	1.75± 0.1	3.5± 0.05	0.45+0.2/-0	0.43± 0.1	2.0± 0.1	4.0± 0.05	40.0± 0.20	2.0± 0.05

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Reel



Unit:mm

Reel Type / Tape	Wa	M	A	B	C	D
7" reel for 8 mm tape	9.0 ± 0.5	178 ± 2.0	2.0 ± 0.5	13.5 ± 0.5	21.0 ± 0.5	60.0 ± 1.0
7" reel for 12 mm tape	13.8 ± 0.5	178 ± 2.0				80.0 ± 1.0
10" reel for 8 mm tape	10.0 ± 0.5	254 ± 2.0				100.0 ± 1.0
13" reel for 8 mm tape	10.0 ± 0.5	330 ± 2.0				100.0 ± 1.0