

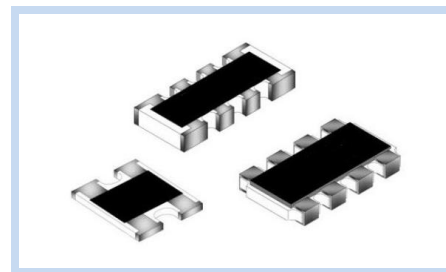
Thick Film Chip Resistor Array Convex Terminal Type

RTA-D series

MERITEK

FEATURE

- Multiple Resistors in Package for Space-Saving Design
- Reliability, High Quality and Fast Delivery
- Improvement of Assembly Efficiency
- Low Parasitic Inductance and Capacitance
- Applications: Entertainment, Communication Equipment, Power Equipment, Measuring Instrument



ELECTRICAL CHARACTERISTICS

Type	Number of Circuits	Power Rating at 70°C	Max Operating Voltage	Max Overload Voltage	Resistance Range (Ω)	TCR (PPM/°C)
					±1%(F), ±5%(J)	
RTA022D	2x0402	1/16W	25V	50V	1~9.9	±400
		Jumper: 1A			10 ~ 1M	±200
					-	-
RTA024D	4x0402	1/16W	50V	100V	1~9.9	±400
		Jumper: 1A			10 ~ 1M	±200
					-	-
RTA034D	4x0603	1/10W	50V	100V	1~9.9	±400
		Jumper: 1A			10 ~ 1M	±200
					-	-
RTA064D	4x1206	1/4W	200V	400V	1~9.9	±400
		Jumper: 2A			10 ~ 1M	±200
					-	-

Notes:

1. Operating temperature: -55 ~ +155°C
2. Operating Voltage= $\sqrt{(P \cdot R)}$ or Max. operating voltage listed above, whichever is lower.
3. Overload Voltage = $2.5 \cdot \sqrt{(P \cdot R)}$ or Max. overload voltage listed above, whichever is lower.
4. Customized specifications might be available upon request

PART NUMBERING SYSTEM

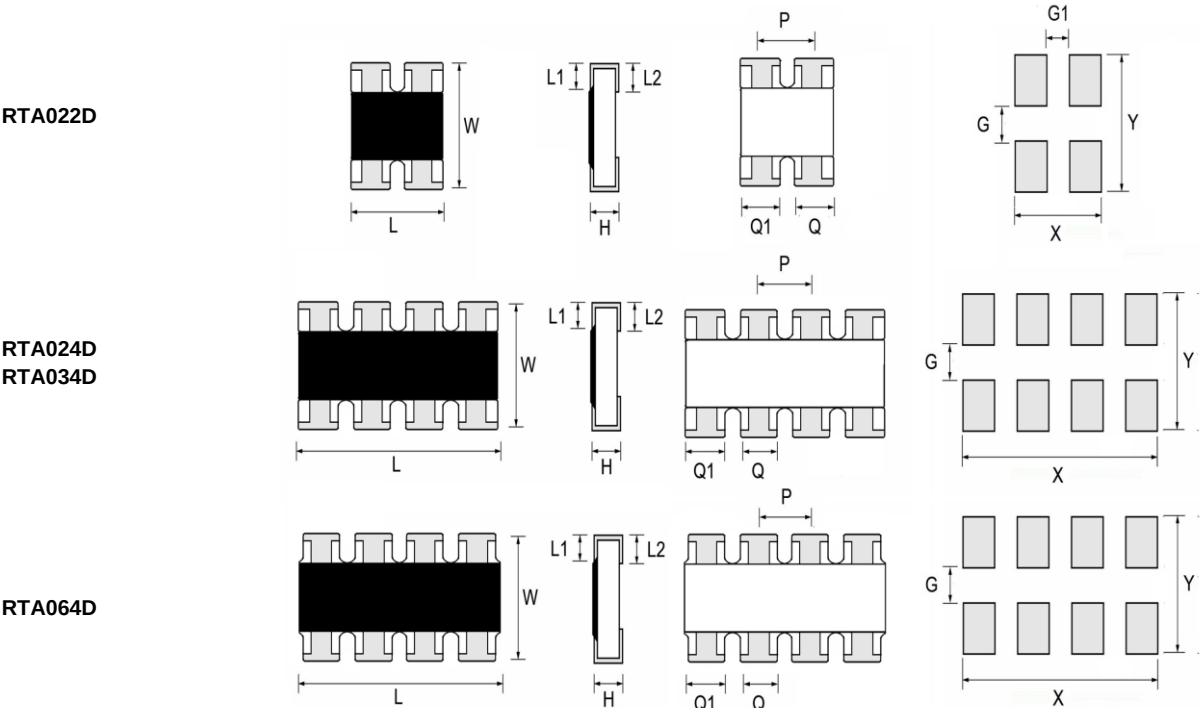
RTA 03 4D 3R3J
(1) (2) (3) (4)

No	Item	Code	Description	
(1)	Product Code	RTA	Thick Film Chip Resistor Array, Isolated type	
(2)	Elements Size	03	03: 0603	02: 0402; 06: 1206
(3)	Number of Circuits	4D	4D: 4 circuits, Convex Terminal type	2: 2 circuits; 4: 4 circuits
(4)	Resistance Value	3R3J	3.3Ω ±5%(J)	2491: 2490Ω, 000: Jumper

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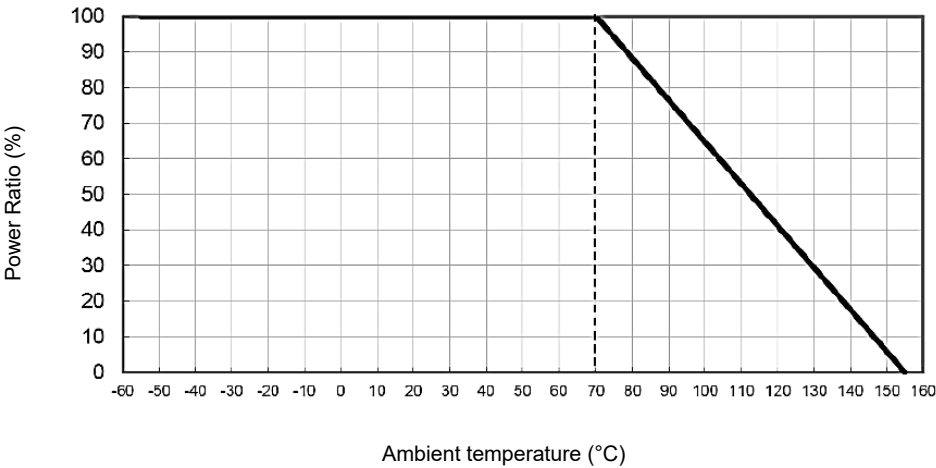
DIMENSIONS



Unit: mm

Series	L	W	H	L1	L2	P	Q	Q1	X	Y	G	G1
RTA022D	1.00±0.10	1.00±0.10	0.33±0.05	0.15±0.10	0.25±0.10	0.67±0.10	0.34±0.10	--	1.00	2.00	0.50	0.34
RTA024D	2.00±0.10	1.00±0.10	0.40±0.10	0.20±0.10	0.20±0.10	0.50±0.10	0.30±0.10	0.43±0.10	0.78	2.00	0.50	0.22
RTA034D	3.20±0.20	1.60±0.15	0.50±0.10	0.30±0.20	0.30±0.20	0.80±0.20	0.50±0.15	0.61±0.10	1.20	2.60	1.00	0.40
RTA064D	5.10±0.20	3.10±0.15	0.55±0.15	0.55±0.15	0.55±0.15	1.30±0.20	0.90±0.10	--	2.20	4.75	2.00	0.375

POWER DERATING CURVE



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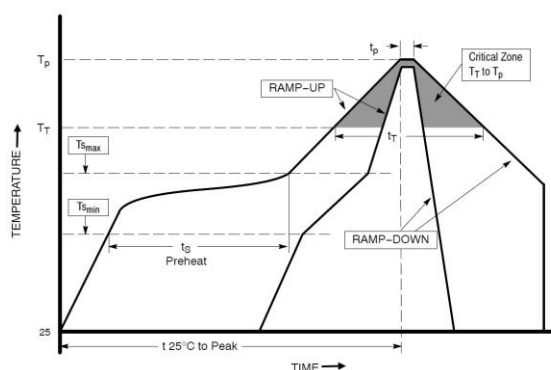
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ENVIROMENTAL SPECIFICATION

Item	Standard	Test Method	Requirement	
			±1%	±5%
Temperature Coefficient	JIS-C-5201-1 4.8 IEC-60115-1 4.8	-55°C ~ +125°C, 25°C is the reference temperature	As Specified	
Short Time Overload	JIS-C-5201-1 4.13 IEC-60115-1 4.13	2.5*RCWV or Max. Overload Voltage whichever is lower for 5 seconds	±(1.0%+0.05Ω)	±(2.0%+0.10Ω)
Insulation Resistance	JIS-C-5201-1 4.6 IEC-60115-1 4.6	Apply 100V _{DC} for 1 minute	≥10GΩ	
Endurance	JIS-C-5201-1 4.25 IEC-60115-1 4.25.1	70 ±2°C, RCWV or Max. working voltage whichever is less for 1000 hours with 1.5hrs "ON" and 0.5hr "OFF"	±(1.0%+0.05Ω)	±(3%+0.10Ω)
Damp Heat with Load	JIS-C-5201-1 4.24 IEC-60115-1 4.24	40 ±2°C, 90~95% R.H., RCWV Max. working voltage whichever is less for 1000 hours with 1.5hrs "ON" and 0.5hr "OFF"	±(1.0%+0.05Ω)	±(2.0%+0.05Ω)
Resistance to Solvent	JIS-C-5201-1 4.29	The tested resistor is immersed into isopropyl alcohol of 20~25°C for 60 secs. Then the resistor is left in the room for 48 hrs.	±(0.5%+0.05Ω)	±(0.5%+0.05Ω)
Rapid Change of Temperature	JIS-C-5201-1 4.19 IEC-60115-1 4.19	-55°C to +155°C, 5 cycles	±(0.5%+0.05Ω)	±(1.0%+0.10Ω)
Resistance to Soldering Heat	JIS-C-5201-1 4.18 IEC-60115-1 4.18	260 ±5°C for 10 seconds	±(0.5%+0.05Ω)	±(1.0%+0.05Ω)
Bending Strength	JIS-C-5201-1 4.33 IEC-60115-1 4.33	Bending once for 5 seconds with 5mm : 022D, 024D, 034D 3mm : 064D	1% and below : ±(1.0%+0.05Ω) 2% · 5% : ±(1.0%+0.05Ω)	
Leaching	JIS-C-5201-1 4.18 IEC-60068-2-58 8.2.1	260 ±5°C for 30 seconds	Individual leaching area ≤5% Total leaching area ≤10%	

RECOMMENDED SOLDERING PROFILES

Reflow Condition		
Pre Heat	Temp. Min T _{s(min)}	150°C
	Temp. Max T _{s(max)}	200°C
	Time (min. to max.) (t _s)	60~120 secs
Average ramp up rate (T _L) to peak		3°C/sec max.
T _{s(max)} to T _L (Ramp-up rate)		3°C/sec max.
Reflow	Temp. (T _L)	217°C
	Time (min. to max.) (t _L)	60~150 secs
Peak Temperature (T _P)		260°C
Time within 5°C of actual peak Temperature (t _p)		30 secs max.
Ramp-down Rate		6°C/sec max.

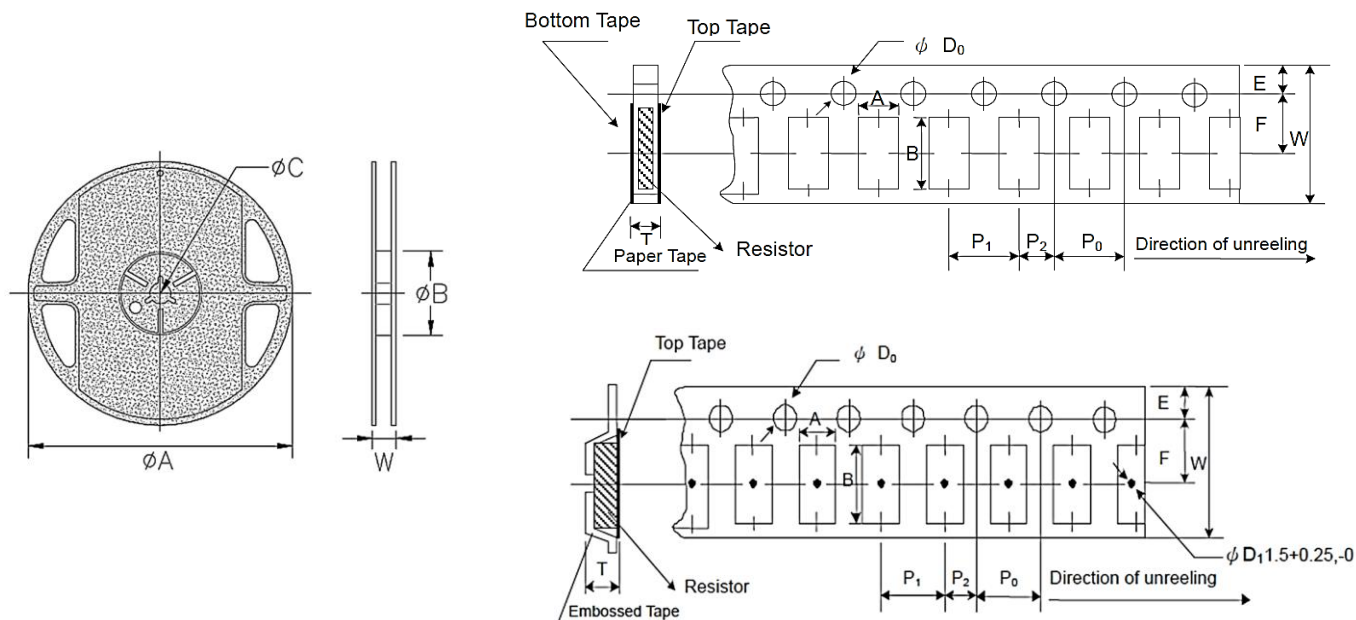


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PACKAGING SPECIFICATIONS



Type	Reel Dimension (mm)						
	Reel Size	Type	Quantity	A	B	C	W
RTA022D	7"	Paper	10K	178.5±2.0	60±1.0	13.5±0.1	11.5±2.0
RTA024D	7"	Paper	10K	178.5±2.0	60±1.0	13.5±0.1	11.5±2.0
RTA034D	7"	Paper	5K	178.5±2.0	60±1.0	13.5±0.1	11.5±2.0
RTA064D	7"	Embossed	4K	178.5±2.0	60±1.0	13.5±0.1	16.0±2.0

Type	Paper Tape Dimension (mm)									
	A	B	W	E	F	P ₀	P ₁	P ₂	ΦD ₀	T
RTA022D	1.25±0.10	1.25±0.10	8.0±0.20	1.75±0.10	3.5±0.05	4.0±0.10	2.0±0.10	2.0±0.05	1.55±0.05	0.45±0.10
RTA024D	1.20±0.10	2.20±0.10	8.0±0.20	1.75±0.10	3.5±0.05	4.0±0.10	2.0±0.10	2.0±0.05	1.55±0.05	0.60±0.10
RTA034D	1.95±0.10	3.50±0.10	8.0±0.20	1.75±0.10	3.5±0.05	4.0±0.10	4.0±0.10	2.0±0.05	1.55±0.05	0.75±0.10

Type	Embossed Tape Dimension (mm)									
	A	B	W	E	F	P ₀	P ₁	P ₂	ΦD ₀	T
RTA064D	3.55±0.20	5.55±0.20	12.0±0.30	1.75±0.10	5.5±0.05	4.0±0.10	4.0±0.10	2.0±0.05	1.55±0.05	0.85±0.10

*Specifications subject to change without notice.