



# RSA (A/B) Series Thick Film Chip Resistors Array Product specification

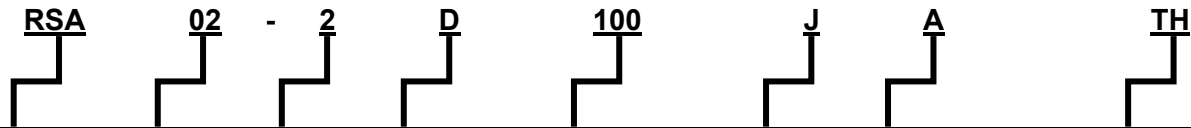
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## 1 Scope:

- 1.1 This specification is applicable to lead free and halogen free of ROHS directive for RSA series anti-sulfurated thick film chip resistors array.
- 1.2 Superior Sulfur resistant capability (Refer to ASTM-B-809-95&EIA977 sulfur vapor test).
- 1.3 The product is for general electronic purpose.

## 2 Explanation Of Part Numbers:

(EX)



Type	Size	Number of Circuits	Terminal Type	Nominal Resistance	Resistance Tolerance	FoS Test	Packaging(Refer to IE-SP-055)
Anti-Sulfurated Thick Film Chip Resistors Array	02(0402) 03(0603)	2:2circuits 4:4circuits	D:Convex	5% (3-Digit) EX. 10Ω=100 4.7Ω=4R7 JUMPER=000	F=± 1% J=± 5%	A : 60°C B :105°C	TH : 2 mm Pitch Carrier Tape 10000 pcs H2 : 2 mm Pitch Carrier Tape 20000 pcs H3 : 2 mm Pitch Carrier Tape 30000 pcs H4 : 2 mm Pitch Carrier Tape 40000 pcs H5 : 2 mm Pitch Carrier Tape 50000 pcs TP : 4 mm Pitch Carrier Tape 5000 pcs P2 : 4 mm Pitch Carrier Tape 10000 pcs P3 : 4 mm Pitch Carrier Tape 15000 pcs P4 : 4 mm Pitch Carrier Tape 20000 pcs
				1% (4-Digit) EX. 10.2Ω=10R2 10KΩ=1002			

## 3 General Specifications:

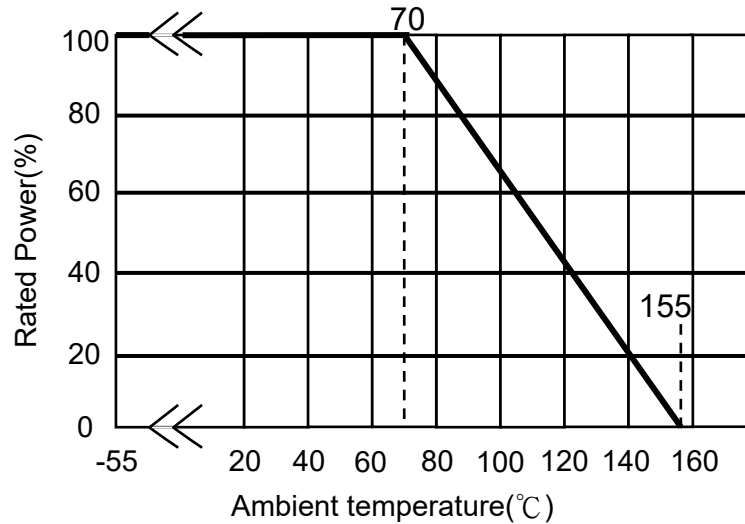
Type	Rated Power at 70°C	Max. Working Voltage	Max. Overload Voltage	T.C.R. (ppm/°C)	Resistance Range		Number of Terminals	Number of Resistors	JUMPER (0Ω) Rated Current	JUMPER (0Ω) Resistance Value		
					F(±1%) E-24 · E-96	J(±5%) E-24				J (±5%)		F(±1%)
					A	B				B		
RSA02-2D (0402)	1/16 W	25V	50V	±300	1Ω ≤ R < 10Ω	1Ω ≤ R < 10Ω	4	2	1A	50mΩ MAX.	100mΩ MAX.	50mΩ MAX.
				±200	10Ω ≤ R ≤ 10MΩ	10Ω ≤ R ≤ 10MΩ						
RSA03-2D (0603)	1/16 W	50V	100V	±200	10Ω ≤ R ≤ 10MΩ	1Ω ≤ R ≤ 10MΩ	4	2	1A	50mΩ MAX.	100mΩ MAX.	50mΩ MAX.
RSA02-4D (0402)	1/16 W	25V	50V	±300	1Ω ≤ R < 10Ω	1Ω ≤ R < 10Ω	8	4	1A	50mΩ MAX.	100mΩ MAX.	50mΩ MAX.
				±200	10Ω ≤ R ≤ 10MΩ	10Ω ≤ R ≤ 10MΩ						
RSA03-4D (0603)	1/16 W	50V	100V	±200	1Ω ≤ R ≤ 10MΩ	1Ω ≤ R ≤ 10MΩ	8	4	1A	50mΩ MAX.	100mΩ MAX.	50mΩ MAX.
Operating Temperature Range				-55°C ~ +155°C								

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朱翠平			汪曉偉		Series No.60	

### 3.1 Power Derating Curve:

Operating Temperature Range : - 55~155 °C

If the ambient temperature exceeds 70 degrees centigrade to 155 degrees centigrade, the power can be modified by the curve as below.



### 3.2 Voltage Rating:

Resistance Range:

Rated Voltage: DC voltage or AC voltage (rms) based on the rated power.

The voltage can be calculated by the following formula. If the calculated value exceeds the Max. voltage specified in the Table 3, the Max. voltage rating is set as the voltage rating.

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

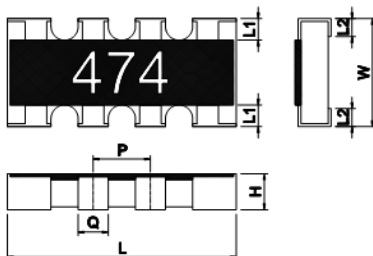
E= Rated voltage (V)

P= power rating (W)

R= Nominal resistance(Ω)

### 4 Structure Graph:

Unit:mm



TYPE	DIM	L	W	H	L1	L2	P	Q
RSA02-2D (0402)		1.00±0.10	1.00±0.10	0.30±0.05	0.15±0.10	0.25±0.15	(0.67)	0.33±0.10
RSA02-4D (0402)		2.00±0.10	1.00±0.10	0.40±0.10	0.20±0.10	0.25±0.15	(0.50)	0.30±0.10
RSA03-2D (0603)		1.60±0.15	1.60±0.15	0.45±0.10	0.30±0.15	0.30±0.20	(0.80)	0.60±0.10
RSA03-4D (0603)		3.20±0.20	1.60±0.15	0.50±0.10	0.30±0.15	0.30±0.20	(0.80)	0.50±0.10

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