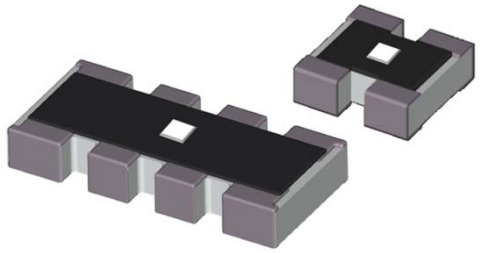
Anti-Sulfur Array Resistors (Convex type : RPS Series)

■ Features

- ASTM B-809-95 Passed.
- Reducing SMD cost (75% reduced)
- Stable resistance in the H_2S gas Atmosphere.
- RoHS Compliant.



■ Part Number System

RPS	10	4P	J	100	CS
Type	Size	# of Resistors	Tolerance	Resistance Value	Packing Type

RPS	Anti-Sulfur Convex Type Array Resistor

10	1005
16	1608

2P	2 pieces
4P	4 pieces

J	±5%

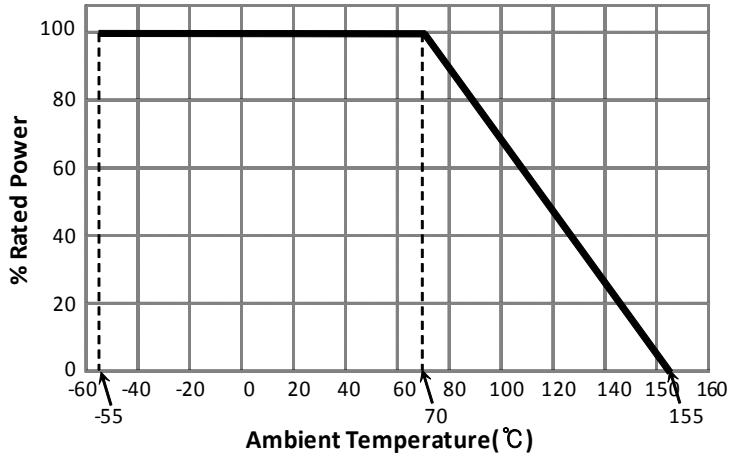
* Jumper : 'J'

3-digit coding (E-24 series)

* Jumper : '000'

CS	7" reel
ES	10" reel
AS	13" reel

■ Power Derating Curve



■ Jumper Ratings

TYPE	Rated Current (A)	Max Overload Current (A)
102P, 104P	1	2
162P, 164P	1	2

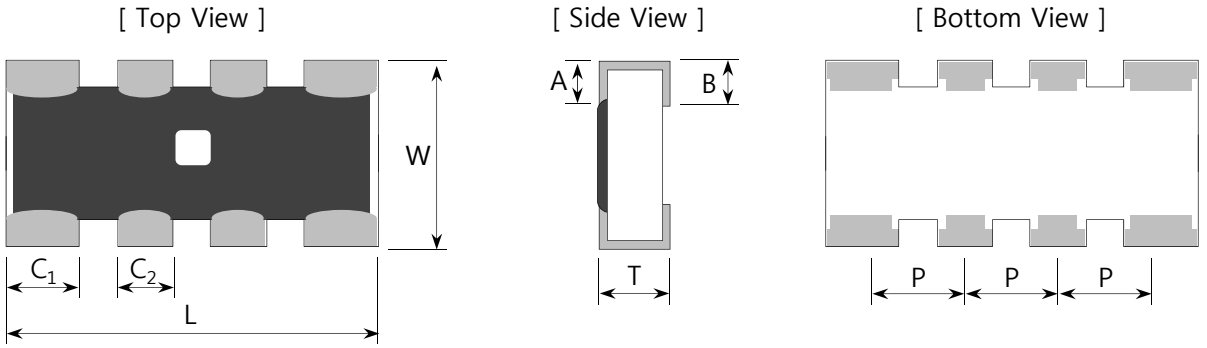
■ Rated Voltage

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

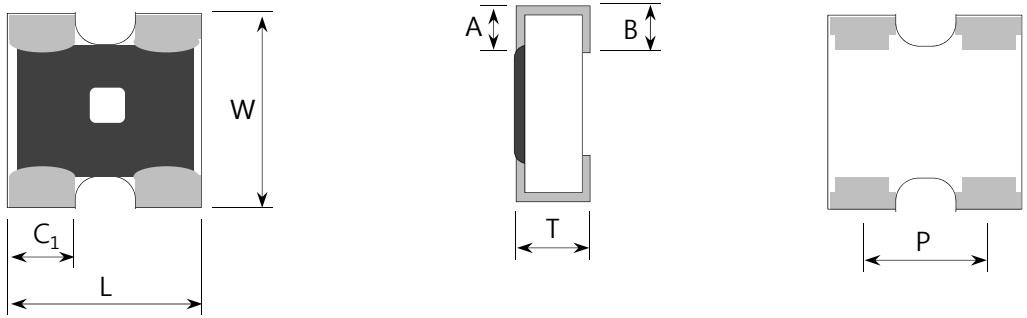
V : Rated Voltage (V)
P : Rated Power (W)
R : Resistance Value (Ω)

■ Structure and Dimensions

RPS104P



RPS102P



[Unit : mm]

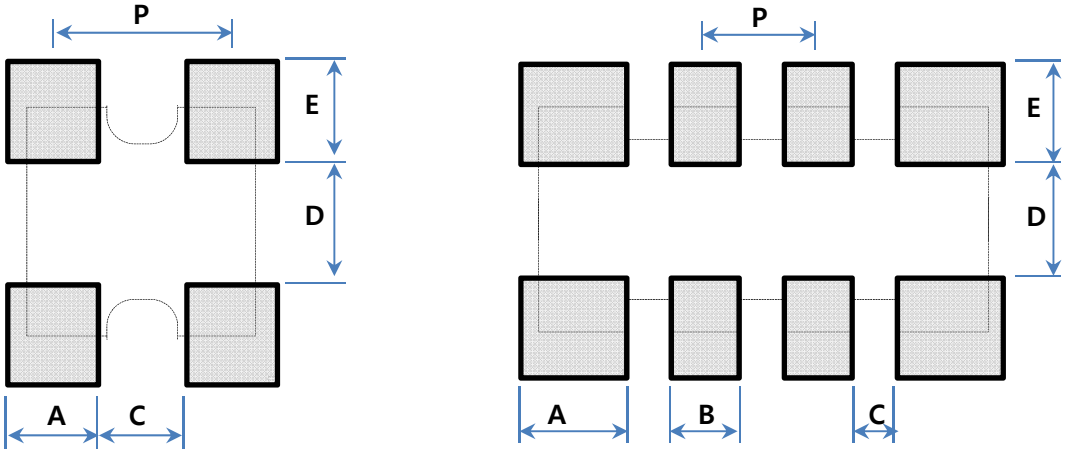
Size(mil)	L	W	T	A	B	C_1	C_2	P	Unit Weight
RPS102P(0404)	1.00±0.10	1.00±0.10	0.35±0.10	0.20±0.10	0.25±0.10	0.33±0.10	-	0.65±0.10	1.1mg
RPS104P(0804)	2.00±0.10	1.00±0.10	0.35±0.10	0.20±0.10	0.25±0.10	0.40±0.10	0.30±0.10	0.50±0.15	2.2mg
RPS164P(1206)	3.20±0.10	1.60±0.10	0.50±0.10	0.30±0.15	0.30±0.15	0.60±0.15	0.40±0.15	0.80±0.15	8.9mg

■ Application Characteristics

Type	Size [inch]	Rated Power [W]	Rated Voltage [V]	Max Working Voltage [V]	Tolerance [%]	Resistance Range [Ω]	T.C.R [ppm/℃]	Working Temp. [℃]	Moisture Level
RPS102P	0404	1/16	$\sqrt{P \times R}$ P : Rated Power(W) R : Resistance(Ω)	25	±5(J)	1 ~ 1M	1~9.9 : ±300 10~1M : ±200	-55 ~ 155	Level 1
RPS104P	0804	1/16		25					
RPS164P	1206	1/16		50					

• Please contact our sales representatives or engineers for other specifications

■ Standard Soldering Pad Dimensions



[Unit : mm]

Size(mil)	A	B	C	D	E	P
RPS102P(0404)	0.4	-	0.25	0.5	0.5	0.65
RPS104P(0804)	0.5	0.3	0.2	0.5	0.5	0.5
RPS164P(1206)	0.7	0.5	0.3	0.9	0.8	0.8

■ Performance Characteristics

ITEM	Requirements Specification		Test Conditions (JIS C 5201-1)
	Resistors	Jumpers	
Resistance	Within the specified tolerance	Max 50mΩ	JIS C 5201-1 4.5
Temperature Characteristic	Within the specified T.C.R	Max 50mΩ	JIS C 5201-1 4.8 +20℃ → -55℃ / +20℃ → +125℃
Short time Overload	ΔR < ±1%+0.1Ω	Max 50mΩ	JIS C 5201-1 4.13 Rated Voltage×2.5, 5sec
Solderability	Immersed over 95%		JIS C 5201-1 4.17 Rosin Ethanol (25%WT) 245+5/-0℃, 2±0.5 sec
Resistance to Solder Heat	ΔR < ±1%+0.1Ω	Max 50mΩ	JIS C 5201-1 4.18 260±5℃, 10±1 sec
Temperature Cycle	ΔR < ±1%+0.1Ω	Max 50mΩ	JIS C 5201-1 4.19 -55℃ ↔ +125℃, 100 cycle
Moisture Resistance	ΔR < ±3%+0.1Ω	Max 50mΩ	JIS C 5201-1 4.24 40±2℃, 90~95%RH, 1000^{+48}hours
Load Life	ΔR < ±3%+0.1Ω	Max 50mΩ	JIS C 5201-1 4.25 Rated Voltage, 70±2℃, 1000^{+48}hours 90mins ON, 30mins OFF
High Temp. Exposure	ΔR < ±3%+0.1Ω	Max 50mΩ	JIS C 5201-1 4.25.3 155±2℃, 1000^{+48}hours
Flower of Sulfur (FOS)	ΔR < ±1%+0.1Ω	Max 50mΩ	105℃, Dry sulfur 50g, 750^{+48}hours

※ The reliability test condition can be replaced by the corresponding accelerated test condition.

Product specifications included in the specifications are effective as of March 01, 2015.

Please be advised that they are standard product specifications for reference only.

We may change, modify or discontinue the product specifications without notice at any time.

So, you need to approve the product specifications before placing an order.

Should you have any question regarding the product specifications,

please contact our sales personnel or application engineers.