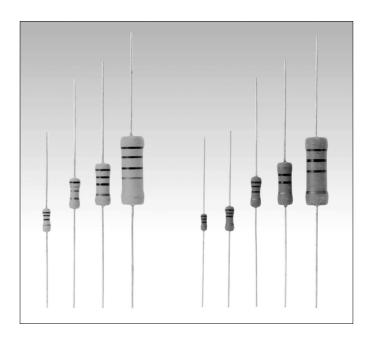
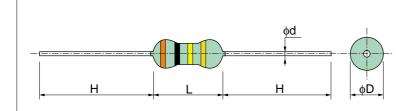
# RSI-1/2, 1, 2, 3, 1/2S, 1S, 2S, 3S, 5S

#### Features

- 1. Available in a variety of sizes from 1/2W.
- 2. Widely used in amplification, high frequency and power source circuit land also in general purpose electric applications.



### Dimensions



Unit : mm

					01110 . 1111111
Style	L	D	Н	d	*Unit Weight/pc.
RSI-1/2S	6.5±0.5	2.5±0.5		0.6±0.05	0.22g
RSI-1/2	9.0±1.0	25140	30±3	0.8±0.05	0.45g
RSI-1S	9.0±1.0	3.5±1.0			
RSI-1	42.014.0	4.514.0			0.67g
RSI-2S	13.0±1.0	4.5±1.0			0.73g
RSI-2	16 0 11 0	6.0±1.0			1.25g
RSI-3S	16.0±1.0				1.4g
RSI-3	25.014.0	9.0±1.0	38±3		3.7g
RSI-5S	25.0±1.0				4.2g

\*Values For Reference

## Product Classification

Example

Style

①Product Type

②Rated power		
Rated power		
0.5W		
1.0W		
2.0W		
3.0W		
5.0W		

103

3 Rated Resistance

3 Rated Resistance3Digit: E24 Seriese.g: 103=10k ohm

4 Tolerance on Rated Resistance

4 Tolerance on Rated Resistance

Code Rated Resistance

J ±5%

B ⑤Packaging

*⑤Packaging				
Code	Packaging			
В	Bulk(Straight)			
НВ	Horizontal Forming (Free-Standing)			
ТВ	52mm Width Taping(Fan Fold Box)			
TL	52mm Width Taping(Reel)			

\*Refer to Taping and Packaging information in page 62. 63. 64 Contact us for information on the details of processing and packing.

packing.
The code numbers may be added to the codes in some

## Ratings

Style	Rated Dissipation at70°C W	Limiting Element Voltage V	Rated Resistance Range	Tolerance on Rated Resistance	Preferred Number Series for Resistors	Isolation Voltage V	Category Temperature Range °C
RSI-1/2S	0.5	250	0.1 ohm~100k ohm	J(±5%)	E24 Series	500	-55~+200
RSI-1/2	0.5	250	0.1 ohm 220k ohm				
RSI-1S	1.0		0.1 ohm~330k ohm			700	
RSI-1		350	0.1 ohm~510k ohm				
RSI-2S	2.0						
RSI-2	2.0		0.22 ohm~470k ohm				
RSI-3S	3.0						
RSI-3		500	0.47 ohm~100k ohm			1000	
RSI-5S	5.0	5.0		U.47 UIIII~ IUUK UIIII		1000	

Note.1 Rated Voltage =  $\sqrt{\text{(Rated Power)} \times \text{(Rated Resistance).}}$  (d.c. or a.c. r.m.s. Voltage)

Note.2 Limiting Element Voltage can only be applied to resistors when the resistance value is equal to or higher than the critical resistance value.

Note 3 RSP Series (0.22-100 0hm) with upgraded performance in surge test are available too, contact the Sales Dept for detail.

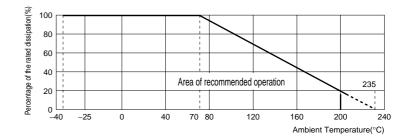
## Derating Curve

The derated values of dissipation at temperature in excess of  $70^{\circ}\text{C}$  shall be as indicated by the following Curve.

# **●Climatic Category**

55/200/56

Lower Category Temperature -55°C
Upper Category Temperature +200°C
Duration of the Damp heat, Steady-State Test 56days



### ●Performance Characteristics JIS C 5201-1: 1998

Descr	iption	Requirements	Test Methods		
Voltage pro	of	No breakdown or flashover	Clause 4.7 V-block method RSI-1/2, 1/2S 500Va.c.,60s RSI-1,2,1S,2S,3S 700Va.c.,60s RSI-3,5S 1,000Va.c.,60s		
Variation of with Tempe		T.C.R: ±350×10 <sup>-6</sup> /°C	Clause 4.8 Measuring temperature : +20°C/-55°C/ +20°C/+155°C/+20°C		
Overload		ΔR≤±(0.5%+0.05 ohm) No visible damage, legible marking	Clause 4.13 The applied voltage shall be 2.5 times of the rated voltage or twice of the limiting element voltage whichever is the less severe, 5s		
Temperatur	e rise	Δθ≤235°C	Clause 4.14 ×Rated voltage		
Robustness	Tensile	$\Delta R$ ±(1%+0.05 ohm) No visible damage	Clause 4.16.2 10N for 5~10s		
of Terminations	Bending	ΔR≤±(1%+0.05 ohm) No visible damage	Clause 4.16.3 5N twice		
	Torsion	ΔR≤±(1%+0.05 ohm) No visible damage	Clause 4.16.4 180°C 2 rotation		
Solderability	1	In accordance with Clause 4.17.4.5	Clause 4.17 235°C, 2s		
Resistance heat	to soldering	$\Delta R \leq \pm (1\%_{+}0.05 \text{ ohm})$ No visible damage, legible marking	Clause 4.18 After immersion into the flux, the immersion into solder shall be carried out in solder bath at 350°C for 3.5s.		
Rapid chang temperature		ΔR≤±(1%+0.05 ohm) No visible damage	Clause 4.19 5 cycles between -55°C and +200°C.		
Climatic sequence		ΔR≤±(5%+0.05 ohm) Insulation resistance : R≥100M ohm No visible damage	Clause 4.23 Dry/Damp heat(12+12h cycle), first cycle./ Cold/Damp heat(12+12h cycle), remaining cycle./ D.C.Load.		
Damp test, steady state		ΔR≤±(5%+0.1 ohm) Insulation resistance : R≥100M ohm No visible damage, legible marking	Clause 4.24 40°C 95%R.H. 56days, test a),b) and c) of Clause 4.24.2.1		
Endurance at 70°C		ΔR≤±(5%+0.1 ohm) No visible damage Insulation resistance : R≥1G ohm	Clause 4.25.1 Rated voltage, 1.5h "ON", 0.5h "OFF", 70°C, 1000h.		
Endurance at the upper Category temperature		ΔR≤±(5%+0.1 ohm) No visible damage Insulation resistance : R≥1G ohm	Clause 4.25.3 200°C, no-load, 1000h.		