

# Precision low resistance chip resistors

## SHR series

### Features

- Precision with separated voltage terminal (4 terminals)
- Resistance tolerance:  $\pm 0.5\%$
- Resistance error with self heating:  $\pm 100\text{ppm}$  (0.1w ~ 0.5w)

### Applications

- Electronic scales, test equipment, measuring equipment



## ◆ Part numbering system

**SHR 6432 V - 3R0 - D - T1**

Series code

Size: SHR6432

Temperature coefficient of resistance

Nominal resistance value

Resistance tolerance

Packaging quantity:  
T1(1,000pcs), T4(4,000pcs)

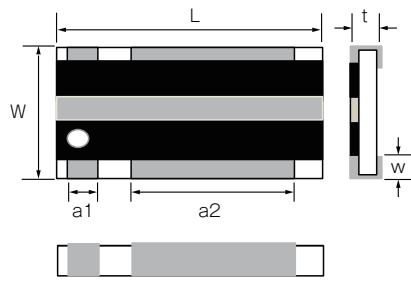
## ◆ Electrical Specification

Type	Power ratings	Temperature coefficient of resistance <sup>*1</sup>	Resistance range( $\Omega$ ) <sup>*2 *3</sup>	Resistance tolerance <sup>*2</sup>	Operating temperature	Packaging quantity
		(ppm/ $^{\circ}\text{C}$ )	$\pm 0.5\%$ (D)			
SHR6432	0.5W	$\pm 5$ (V)	$3 \leq R \leq 8$		$0^{\circ}\text{C} \sim 60^{\circ}\text{C}$	T1 T4

### Information on above specification

*1	Coefficient of resistance by self heating	Resistance value, once powered, is influenced by the self-heating obtained by the following formula. *1 above is a designed value $\{R(P2) - R(P1)\} / R(P1) * 100000 \leq \pm 100\text{ppm}$ R(P1) : measured resistance value at 0.1w(25 $^{\circ}\text{C}$ ) R(P2) : measured resistance value at 0.5w(25 $^{\circ}\text{C}$ )
*2	Resistance value range	Resistance value is obtained by the following formula. $R=V/I$ $I=Vs/Rs$ Vs : Voltage applied to the standard resistor Rs : Standard resistance value V:1V (voltage at the time of resistance measurement)
*3	User resistance value	Please contact us for the resistance value you require.

◆ Dimensions



Type	Size (inch)	L	W	t	a1	a2	w
SHR6432V	2512	6.4+0.2/-0.4	3.2±0.2	0.5±0.1	1.0+0.2/-0.1	4.2±0.2	0.55±0.2

(unit : mm)

◆ Temperature characteristics

