Precision low resistance chip resistors

**SHR series**

**Features**

- Precision with separated voltage terminal (4 terminals)
- Resistance tolerance: ±0.5%
- Resistance error with self heating: ±100ppm (0.1w ~ 0.5w)

**Applications**

- Electronic scales, test equipment, measuring equipment

◆**Part numbering system**

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

<table>
<thead>
<tr>
<th>Series code</th>
<th>SHR6432</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size: SHR6432</td>
<td></td>
</tr>
<tr>
<td>Temperature coefficient of resistance</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SH</th>
<th>6</th>
<th>4</th>
<th>3</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>V</td>
<td>3</td>
<td>R</td>
<td>0</td>
<td>-</td>
</tr>
<tr>
<td>D</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>T1</td>
</tr>
</tbody>
</table>

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

◆**Electrical Specification**

<table>
<thead>
<tr>
<th>Type</th>
<th>Power ratings</th>
<th>Temperature coefficient of resistance</th>
<th>Resistance range (Ω)</th>
<th>Resistance tolerance</th>
<th>Operating temperature</th>
<th>Packaging quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHR6432</td>
<td>0.6W</td>
<td>±5(V)</td>
<td>3≤R≤8</td>
<td>±0.5% (D)</td>
<td>0°C ~ 60°C</td>
<td>T1 T4</td>
</tr>
</tbody>
</table>

**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.

\[ R(P2) - R(P1)/R(P1) \times 100000 \leq 100ppm \]

\( R(P1) \) : measured resistance value at 0.1w(25°C)

\( R(P2) \) : measured resistance value at 0.5w(25°C)

**2** Resistance value range

Resistance value is obtained by the following formula.

\[ R=V/I \quad I=V_s/R_s \]

V : Voltage applied to the standard resistor

Rs : Standard resistance value

V/I : (voltage at the time of resistance measurement)

**3** User resistance value

Please contact us for the resistance value you require.
## Dimensions

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (inch)</th>
<th>L</th>
<th>W</th>
<th>t</th>
<th>a1</th>
<th>a2</th>
<th>w</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHR6432V</td>
<td>2512</td>
<td>6.4±0.2/-0.4</td>
<td>3.2±0.2</td>
<td>0.5±0.1</td>
<td>1.0±0.2/-0.1</td>
<td>4.2±0.2</td>
<td>0.55±0.2</td>
</tr>
</tbody>
</table>

(unit: mm)

## Temperature characteristics

![Temperature drift graph]

- Resistance drift (ppm) vs. Temperature (°C)
- Temperature drift at 0.5W
- Terminal temperature of fixed temperature bath
- Bath Temp.
- Electrode Temp.