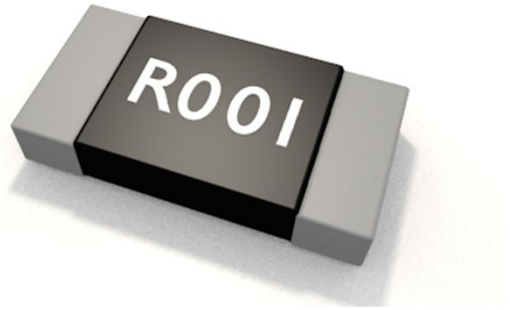
# 金属板 電流検出用抵抗器

Halogen Free

RoHS Compliance

**Yokohama Electronic Devices**

## SLR series / Metal Strip _ Current Sensing Resistor




### 特徴 / Features

●金属板構造。
●3264サイズで定格2W, 3W
●大量生産が意図されたモデルで豊富な生産能力を実現。
●耐パルス性能に優れます。
●純粋な金属合金を抵抗体に採用。
●高精度で高安定な性能を実現
●様々な電流検出用途に最適です。

●Metal Strip Construction.
●Rating 2W, 3W.on 3.2mm x 6.4mm.
●High volume production suitable for commercial and special applications.
●Excellent Pulse Endurance
●Pure Metal Alloy
●High precision tolerance and stabilities.
●Suitable for useful in many Current Sensing Applications.

### 品番構成 / Ordering Code

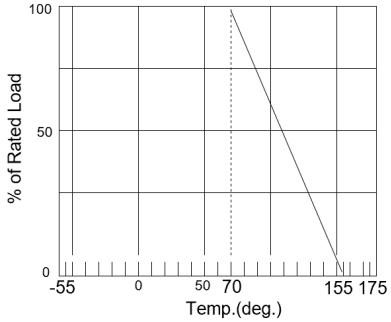
| S | L | R | 6 | 4 | 3 | 2 | H | M | R | 0 | 0 | 1 | F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| 品目記号 Product Code | 形状 Size | 定格電力 Power | 特性 Type | 抵抗値 Nominal Resistance | 抵抗値許容差 R-Tolerance |
|---|---|---|---|---|---|
| SLR 金属板 電流検出用抵抗器 | 6432 | Blank: 2W<br>H: 3W | M: Low TEMF | 0.001Ω→R001<br>0.010Ω→R010 | F= ± 1%<br>D= ±0.5% |

### 定格 / Ratings

| Type | SLR6432 | | | SLR6432H | | |
|---|---|---|---|---|---|---|
| サイズ Size in mm (inch) | 6.4mm x 3.2mm ( 0.25inch x 0.12inch) | | | | | |
| 定格電力 Power | 2W | | | 3W | | |
| 定格電圧 Rated Voltage Power | √(Power x Resistance) | | | | | |
| 抵抗値許容差 Resistance Tolerance | ± 1.0% (F), ±0.5% (D) | | | | | |
| 標準抵抗値 Standard | 0.5mΩ～0.75mΩ | 1mΩ～1.5mΩ | 2mΩ～50mΩ | 0.5mΩ～0.75mΩ | 1mΩ～1.5mΩ | 2mΩ～50mΩ |
| 抵抗温度係数 TCR, ppm/° C | ± 150ppm/° C | ± 100ppm/° C | ± 50ppm/° C | ± 150ppm/° C | ± 100ppm/° C | ± 50ppm/° C |
| 使用温度範囲 Operating | -55° C ~ +155° C | | | | | |
| 梱包数 Packaging | 4,000pcs/reel | | | 3,000pcs/reel | | |

### 負荷軽減曲線 / Derating Curve




定格電力は、定格周囲温度以下において連続使用に適する負荷電力を指します。周囲温度が70℃を超える場合は、図の軽減曲線に従って定格電力を軽減して下さい。

Rated power is defined as load power suitable to continuous use only in Rated ambient temperature. You shall decrease rated power in accordance with above Power Derating curb-chart in case of ambient temperature of more than 70℃.

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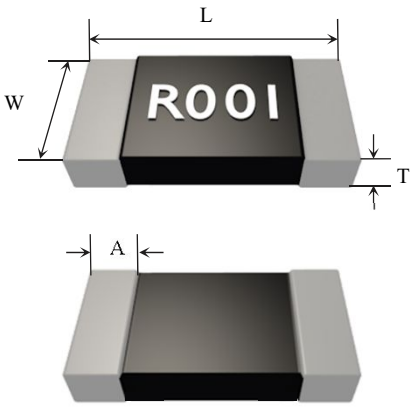
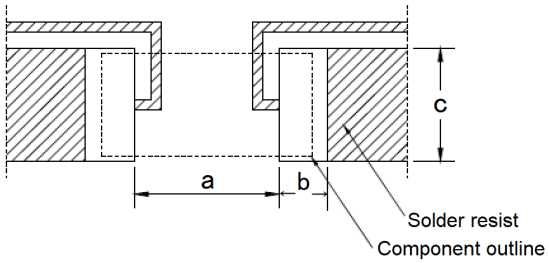
形状寸法 / Dimensions in mm




Dimensions in mm

| 型式 Series | SLR6432 | | SLR6432H | |
|---|---|---|---|---|
| | 0.5mq ～1.5mq | 2mΩ～50mΩ | 0.5mq ～0.75mq | 1mq ～50mq |
| L | 6.40 ±0.30 | | 6.40 ±0.30 | |
| W | 3.20 ±0.30 | | 3.20 ±0.30 | |
| T | MAX 1.25 | | MAX 1.30 | |
| A | 1.90 ±0.25 | 0.80 ±0.25 | 1.90 ±0.25 | 0.80 ±0.25 |

推奨ランドパターン / Recommended Land Pattern for Current Sensing




Dimensions in mm

| 型式 Series | SLR6432 | | SLR6432H | |
|---|---|---|---|---|
| | 0.5mΩ～1.5mΩ | 2mΩ～50mΩ | 0.5mq ～0.75mq | 1mq ～50mq |
| a | 1.50 | 3.18 | 3.18 | 3.18 |
| b | 2.95 | 2.11 | 2.95 | 2.11 |
| c | 3.57 | 3.57 | 3.57 | 3.57 |

性能 / Performance

| 試験方法 Parameter | 試験条件 Conditions | 判断基準 Requirements |
|---|---|---|
| 短時間過負荷 Short Time Over Load | P= 5.0Pr ; T=25±2ºC , t = 5sec | ±(1.0%+0.5mΩ) IEC60115-1 4.13 |
| 高温放置 High Temp. Exposure | T = +170±2ºC ; t = 1000h | ±(1.0%+0.5mΩ) IEC60115-1 4.25 |
| 低温放置 Low Temp. Storage | T = -55±2ºC ; t = 1000h | ±(1.0%+0.5mΩ) IEC60115-1 4.25 |
| 耐湿負荷 Moisture Load Life （60℃、95%RH） | Vtest = Vmax ; T=60±2ºC ; RH=95% ; t= 90min ON , 30min OFF , 1000h | ±(2.0%+0.5mΩ) IEC60115-1 4.25 |
| 熱衝撃 Thermal Shock | [-55ºC 30min. → R.T. 3min. → +155ºC 30min → R.T. 3min ],100Cycles | ±(1.0%+0.5mΩ) IEC60115-1 4.19 |
| 高温負荷 Load Life at 70ºC | Vtest = Vmax ; T=70±2ºC ;t= 90min ON , 30min OFF,1000h | ±(2.0%+0.5mΩ) IEC60115-1 4.25 |
| 半田濡れ性 Solderability | Dip into solder at T = 245±5ºC , t = 3±0.5sec | The covered area >95% IEC60115-1 4.17 |
| 半田耐熱性 Resistance to Solder Heat | Through Reflow,3times T= 260±5ºC , t =20±1sec | ±(1.0%+0.5mΩ) IEC60115-1 4.18 |
| 機械的衝撃 Mechanical Shock | Acceleration a =100G , t =6ms | ±(1.0%+0.5mΩ) IEC60115-1 4.21 |
| 基板曲げ Substrate Bending | Span between fulcrums ：90mm ; Bend Width ：2mm ; Test board/ Glass-Epoxy Board/ Thickness =1.6mm | ±(1.0%+0.5mΩ) IEC60115-1 4.33 |