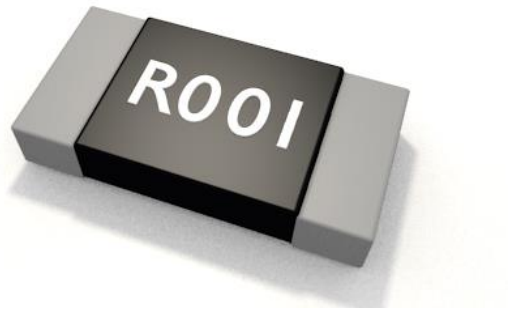
金属片 電流検出用抵抗器

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。
●従来仕様より抵抗値許容差が少なく高精度な抵抗値を実現

●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.
●Lower resistance tolerances and higher accuracy than conventional specifications

品番構成 / Ordering Code

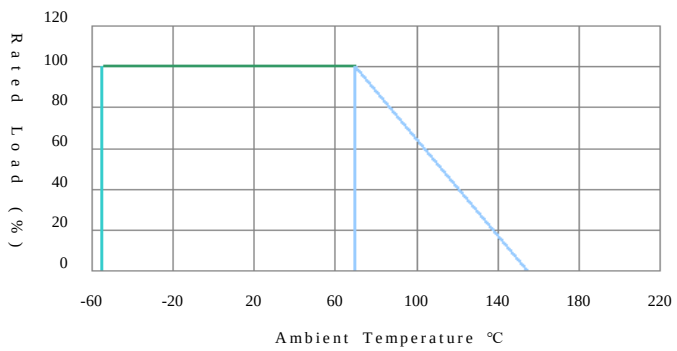
S	L	R	6	4	3	2	R	0	0	1	F	2	W	H	30	X	X	X

品目記号 Product Code	形状 Size		抵抗値 Nominal Resistance	抵抗値許容差 R-Tolerance	定格電力 Rated Power	包装 Packing	性能グレード Performance
SLR 金属片 電流検出用抵抗器	6432	2W 3W	0.001Ω→R001 0.010Ω→R010	F= ± 1% D= ±0.5%	2W 3W	H30=3000pcs/reel H40=4000pcs/reel	XXX = Normal

定格 / Ratings

Type	SLR6432_2W			SLR6432_3W	
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)	±1.0% (F)・±0.5% (D)			
標準抵抗値 Standard	0.50mΩ～0.75mΩ	1mΩ～1.5mΩ	2mΩ～50mΩ	1mΩ	2mΩ～50mΩ
抵抗温度係数 TCR, ppm/°C	±150ppm/°C	±100ppm/°C	±50ppm/°C	±100ppm/°C	±50ppm/°C
使用温度範囲 Operating	-55°C ~ +155°C				
梱包数 Packaging	4000pcs/reel (-H40)			3000pcs/reel (-H30),	

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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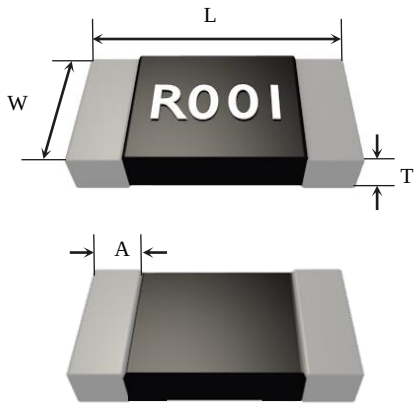
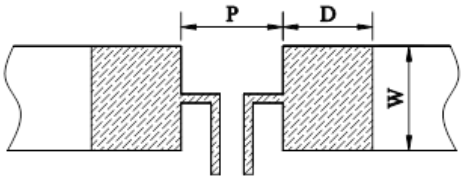
形状寸法 / Dimensions in mm



Dimensions in mm

型式 Series	SLR6432 2W			SLR6432 3W	
	0.50mΩ～0.75mΩ	1mΩ～1.5mΩ	2mΩ～50mΩ	1mΩ～4mΩ	5mΩ～50mΩ
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	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 2W		SLR6432 3W
	0.50mΩ～1.50mΩ	2mΩ～50mΩ	
P	1.50	3.18	3.18
D	2.95	2.11	2.11
W	3.57	3.57	3.57

性能 / Performance

項目 Items	試験条件 Test Conditions	規格値 Specification
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（60ºC、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 , Duration 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