

特長 / Features:

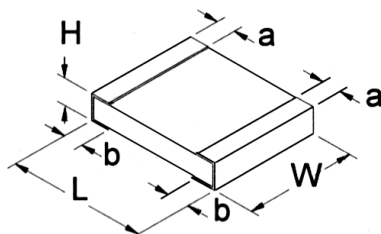
- 大電流検出チップ抵抗
- 抵抗温度係数 ± 50 ppm/ $^{\circ}$ C
- 抵抗値の下限 0.0005 Ω (1/2m Ω)
- 63A の電流値まで対応
- 標準抵抗値以外の抵抗値も対応可能
- High power current sense resistor
- TCR of ± 50 ppm/ $^{\circ}$ C
- Resistances down to 0.0005 (1/2 m Ω)
- Current handling up to 63 amps
- Non-standard resistance values available



定格 / Electrical Specifications					
形名 Type / Code	サイズ Package Type	定格電力 Power Rating (Watts) @ 70 $^{\circ}$ C	絶縁耐電圧 Dielectric Withstanding Voltage	抵抗温度係数 Resistance Temperature Coefficient	抵抗値範囲 (Ω) / 抵抗値許容差 Ohmic Range (Ω) and Tolerance
					1%, 5%
CSNL 1206	1206	1W	200V	± 50 ppm/ $^{\circ}$ C	0.001 - 0.05
CSNL 2010	2010	1W	200V	± 50 ppm/ $^{\circ}$ C	0.0005 - 0.1
CSNL 2512	2512	2W	200V	± 50 ppm/ $^{\circ}$ C	0.0005 - 0.01

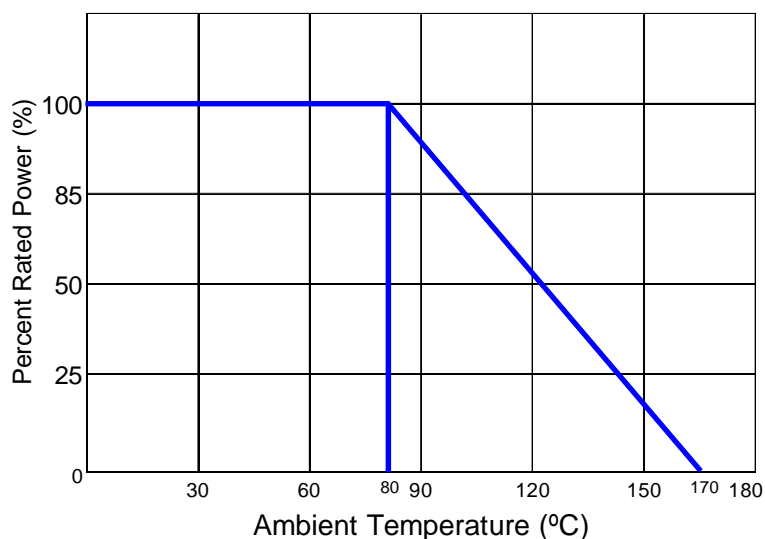
性能 / Performance Characteristics			
試験項目 Test	試験方法 Test Method	規格値 Test Specification	代表値 Typical
定格負荷 Load Life	MIL-STD-502F-Method 108A RCWV at 70 $^{\circ}$ C; 1.5hrs ON; 0.5hrs OFF Total 1024 \pm 24hrs	$\pm 0.5\%$	$\leq 0.5\%$
はんだ耐熱性 Resistance to Soldering Heat	MIL-STD-202F-Method 210E 260 \pm 5 $^{\circ}$ C for 10 \pm 1sec	$\pm 0.5\%$	$\leq 0.25\%$
はんだ付け性 Solderability	MIL-STD-202F-Method 208H 245 \pm 5 $^{\circ}$ C for 2 \pm 0.5sec	minimum 95% coverage	> 95%
温度急変 Thermal Shock	MIL-STD-202F-Method 107G -55 $^{\circ}$ C to 150 $^{\circ}$ C, 100 cycles	$\pm 0.5\%$	$\leq 0.5\%$
短時間過負荷 Short Time Overload	JIS-C-5201-1 5x rated power for 5 sec	$\pm 0.5\%$	$\leq 0.5\%$
温度サイクル Temperature Cycling	JIS-C-5201-1 -55 $^{\circ}$ C: 30 min. 25 $^{\circ}$ C: 2 to 3 min. 155 $^{\circ}$ C: 30min. 25 $^{\circ}$ C: 2 to 3 min.	$\pm 0.5\%$	$\leq 0.5\%$
耐湿負荷 Moisture Resistance	MIL-STD-202F-Method 106G	$\pm 0.5\%$	$\leq 0.5\%$
絶縁抵抗 Insulation Resistance	MIL-STD-202F-Method 302 Apply 100Vdc for 1 minute	1M Ω minimum	$\geq 1M\Omega$

使用温度範囲 / Operating Temperature Range: -55 $^{\circ}$ C to +170 $^{\circ}$ C



外形寸法 / Mechanical Specifications					
形名 Type / Code	寸法 / Dimensions (mm)				
	L : Body Length	W : Body Width	H : Body Height	a : Top Termination	b : Bottom Termination
CSNL 1206	3.200 ± 0.254	1.600 ± 0.254	0.645 ± 0.254	0.508 ± 0.254	0.508 ± 0.254
CSNL 2010(≤3mΩ)	5.080 ± 0.254	2.540 ± 0.254	0.787 ± 0.254	1.295 ± 0.254	1.295 ± 0.254
CSNL 2010(≥3.1mΩ)	5.080 ± 0.254	2.540 ± 0.254	0.645 ± 0.254	0.787 ± 0.254	0.787 ± 0.254
CSNL 2512 (0.5mΩ)	6.350 ± 0.254	3.180 ± 0.254	1.250 ± 0.2	1.300 ± 0.38	1.300 ± 0.38
CSNL 2512 (0.75mΩ)	6.350 ± 0.254	3.180 ± 0.254	0.750 ± 0.2	1.300 ± 0.38	1.300 ± 0.38
CSNL 2512 (1.0mΩ)	6.350 ± 0.254	3.180 ± 0.254	0.650 ± 0.2	1.300 ± 0.38	1.300 ± 0.38
CSNL 2512 (1.5mΩ)	6.350 ± 0.254	3.180 ± 0.254	0.450 ± 0.2	1.300 ± 0.38	1.300 ± 0.38
CSNL 2512 (2.0mΩ)	6.350 ± 0.254	3.180 ± 0.254	0.350 ± 0.2	1.300 ± 0.38	1.300 ± 0.38
CSNL 2512 (2.5mΩ)	6.350 ± 0.254	3.180 ± 0.254	0.650 ± 0.2	1.300 ± 0.38	1.300 ± 0.38
CSNL 2512 (3mΩ)	6.350 ± 0.254	3.180 ± 0.254	0.550 ± 0.2	1.300 ± 0.38	1.300 ± 0.38
CSNL 2512 (4mΩ)	6.350 ± 0.254	3.180 ± 0.254	0.450 ± 0.2	1.300 ± 0.38	1.300 ± 0.38
CSNL 2512 (5mΩ)	6.350 ± 0.254	3.180 ± 0.254	0.350 ± 0.2	1.300 ± 0.38	1.300 ± 0.38
CSNL 2512 (6mΩ)	6.350 ± 0.254	3.180 ± 0.254	0.320 ± 0.2	1.300 ± 0.38	1.300 ± 0.38
CSNL 2512 (6.5mΩ)	6.350 ± 0.254	3.180 ± 0.254	0.300 ± 0.2	1.300 ± 0.38	1.300 ± 0.38
CSNL 2512 (7mΩ)	6.350 ± 0.254	3.180 ± 0.254	0.270 ± 0.2	1.300 ± 0.38	1.300 ± 0.38
CSNL 2512 (10mΩ)	6.350 ± 0.254	3.180 ± 0.254	0.250 ± 0.2	1.300 ± 0.38	1.300 ± 0.38

Power Derating Curve:



CSNL Series

金属箔電流検出チップ抵抗器 / Metal Foil Current Sensing Chip Resistor

Stackpole Electronics, Inc.

Resistive Product Solutions

形名構成 / How to Order

1	2	3	4	5	6	7	8	9	10	11	12	13	14
C	S	N	L	1	2	0	6	F	T	1	0	L	0

品種 Product Series		サイズ Size	定格電力 Power Rating	抵抗値許容差 Tolerance		包装形状 Packaging				抵抗値 Resistance Value
CSNL	Metal Foil	1206	1W	Code	Tol	Code	Description	Size	Quantity	10進数の4桁表示 Four characters with the multiplier used as the decimal holder. "L"記号は、10の-3乗を表す。 "L" used as multiplier of 10 ⁻³ for any value under 0.1 Ω.
		2010	1W	F	1%	T	7" reel - plastic tape	1206	4,000	
		2512	2W	J	5%			2010, 2512	2,000	
										0.0005 Ω = L500 0.001 Ω = 1L00 0.01 Ω = 10L0 0.1 Ω = R100