

### 特長 / Features:

- チップサイズは 0402 から 2512 及び 1225
- 定格電圧の3W 品を用意
- 低抵抗値 - 標準で 0.2nH 以下
- 標準抵抗値以外の抵抗値は営業スタッフにご相談下さい
- 0402 to 2512 & 1225 sizes available
- Power ratings to 3W
- Low inductance – less than 0.2nH typically
- Non-standard resistance values available

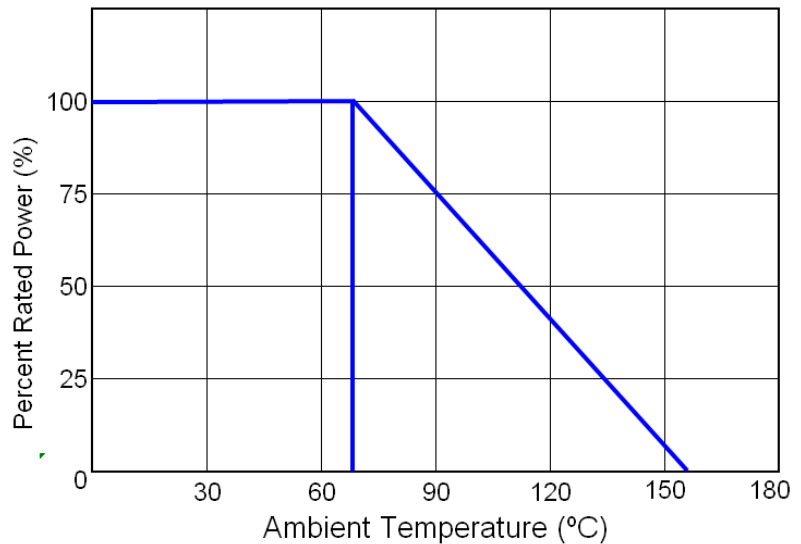


定格 / Electrical Specifications						
形名 Type / Code	サイズ Package Type	定格電力 Power Rating (Watts) @ 70°C	絶縁耐電圧 Dielectric Withstanding Voltage	抵抗温度係数 Resistance Temperature Coefficient	抵抗値範囲 (Ω) / 抵抗値許容差 Ohmic Range (Ω) and Tolerance	
					1%	2%, 5%
CSR 0402	0402	0.125W	200V	±400 ppm/°C ±300 ppm/°C ±200 ppm/°C	0.051 - 0.100 0.101 - 0.500 0.501 - 1.000	0.051 - 0.100 0.101 - 0.500 0.501 - 1.000
CSR 0603	0603	0.125W	200V	±400 ppm/°C ±300 ppm/°C ±200 ppm/°C	0.051 - 0.100 0.101 - 0.500 0.501 - 1.000	0.051 - 0.100 0.101 - 0.500 0.501 - 1.000
CSR 0805	0805	0.25W	200V	±400 ppm/°C ±300 ppm/°C ±200 ppm/°C	0.051 - 0.100 0.101 - 0.500 0.501 - 1.000	0.051 - 0.100 0.101 - 0.500 0.501 - 1.000
CSR 1206	1206	0.5W	200V	±600 ppm/°C ±400 ppm/°C ±300 ppm/°C ±200 ppm/°C	0.010 - 0.020 0.021 - 0.050 0.051 - 0.099 0.100 - 1.000	0.010 - 0.020 0.021 - 0.050 0.051 - 0.099 0.100 - 1.000
CSR 1210	1210	0.5W	200V	±600 ppm/°C ±400 ppm/°C ±300 ppm/°C ±200 ppm/°C	0.010 - 0.020 0.021 - 0.050 0.051 - 0.099 0.100 - 1.000	0.010 - 0.020 0.021 - 0.050 0.051 - 0.099 0.100 - 1.000
CSRN 0815	0815	1W	200V	±300 ppm/°C ±150 ppm/°C	0.010 - 0.019 0.020 - 0.500	0.010 - 0.019 0.020 - 0.500
CSR 0830	0830	2W	200V	±300 ppm/°C ±200 ppm/°C ±150 ppm/°C	- 0.005 - 0.010 0.011 - 0.035	0.001 - 0.004 0.005 - 0.010 0.011 - 0.035
CSRN 2010	2010	1W	200V	±600 ppm/°C ±400 ppm/°C ±300 ppm/°C ±200 ppm/°C	0.010 - 0.020 0.021 - 0.050 0.051 - 0.099 0.100 - 1.000	0.010 - 0.020 0.021 - 0.050 0.051 - 0.099 0.100 - 1.000
CSRN 2512	2512	2W	200V	±600 ppm/°C ±400 ppm/°C ±300 ppm/°C ±200 ppm/°C	0.010 - 0.020 0.021 - 0.050 0.051 - 0.099 0.101 - 1.000	0.010 - 0.020 0.021 - 0.050 0.051 - 0.099 0.101 - 1.000
CSR 1225	1225	3W	200V	±300 ppm/°C ±200 ppm/°C ±150 ppm/°C ±100 ppm/°C ±200 ppm/°C	0.003 - 0.005 0.006 - 0.020 0.021 - 0.030 0.031 - 0.250 0.251 - 8.000	0.003 - 0.005 0.006 - 0.020 0.021 - 0.030 0.031 - 0.250 0.251 - 8.000

性能 / Performance Characteristics		
試験項目 Test	規格値 Test Specification	代表値 Typical
耐湿負荷 Moisture Resistance	± 0.5%	≤ 0.5%
定格負荷 Load Life	± 0.5%	≤ 0.5%
はんだ耐熱性 Resistance to Soldering Heat	± 0.5%	≤ 0.25%
はんだ付け性 Solderability	minimum 95% coverage	≥ 95%
温度サイクル Temperature Cycling	± 0.5%	≤ 0.5%
温度急変 Thermal Shock	± 0.5%	≤ 0.5%
短時間過負荷 Short Time Overload	± 0.5%	≤ 0.5%
絶縁抵抗 Insulation Resistance	1MΩ minimum	≥ 1MΩ

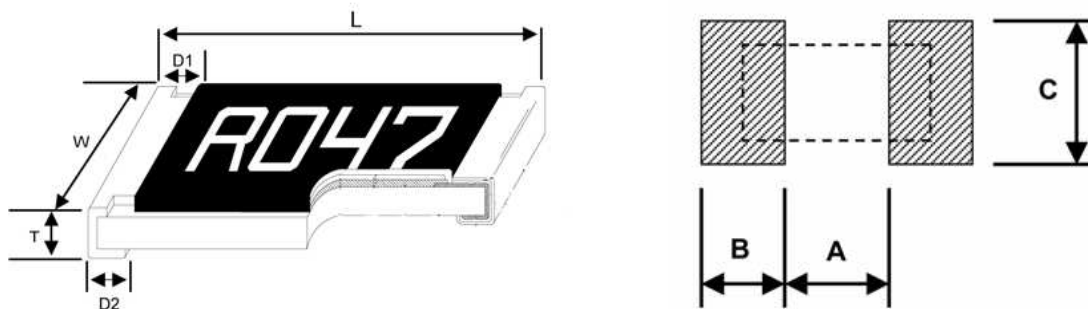
使用温度範囲 / Operating Temperature Range -55°C to +155°C

Power Derating Curve:



### 外形寸法 / Mechanical Specifications

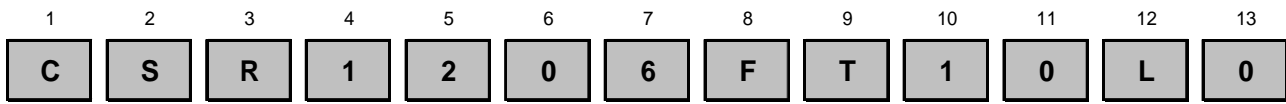
形名 Type / Code	寸法 / Dimensions (mm)				
	L Body Length	W Body Width	T Body Height	D1 Top Termination	D2 Bottom Termination
CSR 0402	1.00 ± 0.05	0.50 ± 0.05	0.32 ± 0.10	0.25 ± 0.10	0.20 ± 0.10
CSR 0603	1.60 ± 0.10	0.80 ± 0.10	0.45 ± 0.10	0.30 ± 0.20	0.30 ± 0.20
CSR 0805	2.00 ± 0.15	1.25 ± 0.15	0.55 ± 0.10	0.30 ± 0.20	0.40 ± 0.25
CSR 1206	3.05 ± 0.15	1.55 ± 0.15	0.55 ± 0.10	0.50 ± 0.30	0.40 ± 0.25
CSR 1210	3.10 ± 0.10	2.60 ± 0.15	0.55 ± 0.10	0.50 ± 0.30	0.50 ± 0.25
CSRN 0815	2.00 ± 0.20	3.75 ± 0.20	0.60 ± 0.10	0.40 ± 0.20	0.40 ± 0.20
CSR 0830	2.00 ± 0.20	7.50 ± 0.30	0.60 ± 0.10	0.40 ± 0.20	0.40 ± 0.20
CSRN 2010	5.00 ± 0.20	2.45 ± 0.15	0.60 ± 0.15	0.60 ± 0.30	0.50 ± 0.25
CSRN 2512 (10-99 mΩ)	6.35 ± 0.20	3.15 ± 0.15	0.74 ± 0.10	0.60 ± 0.30	0.55 ± 0.25
CSRN 2512 (100-1000 mΩ)	6.35 ± 0.20	3.15 ± 0.15	0.74 ± 0.10	0.60 ± 0.30	2.10 ± 0.10
CSR 1225	3.10 ± 0.15	6.30 ± 0.15	0.90 ± 0.15	0.60 ± 0.30	0.55 ± 0.25



### はんだパッド寸法 / Solder Pad Dimensions

形名 Type / Code	A	B	C	Unit
CSR 0402	0.50	0.50	0.60 ± 0.2	mm
CSR 0603	0.80	1.00	0.90 ± 0.2	mm
CSR 0805	1.00	1.00	1.35 ± 0.2	mm
CSR 1206	2.00	1.15	1.70 ± 0.2	mm
CSR 1210	2.00	1.15	2.50 ± 0.2	mm
CSRN 0815	1.00	1.80	3.90 ± 0.2	mm
CSR 0830	1.00	1.80	7.60 ± 0.2	mm
CSRN 2010	3.60	1.40	2.50 ± 0.2	mm
CSRN 2512 (10 - 99mΩ)	4.90	1.60	3.10 ± 0.2	mm
CSRN 2512(100 - 1000mΩ)	1.00	3.55	3.10 ± 0.2	mm
CSR 1225	2.00	2.00	6.40 ± 0.2	mm

### 形名構成 / How to Order



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
Code	Tol	Code	Description	Size	Quantity					
CSR	Standard	0402	0.125W	F	1%	T	7" Reel	0402	10,000	10進数の4桁表示 Four characters with the multiplier used as the decimal holder. "L" used as multiplier of 10 <sup>-3</sup> for any value under 0.1 ohm. 0.051 ohm = 51L0 0.35 ohm = R350 1 ohm = 1R00
CSRN	Narrow Terminations	0603	0.125W	G	2%		paper tape	0603, 0805, 1206, 1210	5,000	
		0805	0.25W	J	5%		7" Reel	2010, 2512	4,000	
		1206	0.5W				Plastic tape	0815, 0803, 1225	2,000	
		1210	0.5W			K	7" Reel	0402	1,000	
		0815	1W				paper tape	0603, 0805, 1206, 1210		
		0830	2W				7" Reel	2010, 2512		
		2010	1W				Plastic tape	0815, 0803, 1225		
		2512	2W							
		1225	3W							