

RHC Series — High Power Thick Film Chip Resistor

SEI

Features

- Handles 2W of power
- Resistances from 0.1Ω to 1MΩ
- RoHS compliant / lead-free
- TCR of ± 100 ppm/°C
- 1% and 5% tolerances
- Runs significantly cooler than standard thick film 2512 chip



Electrical Specifications

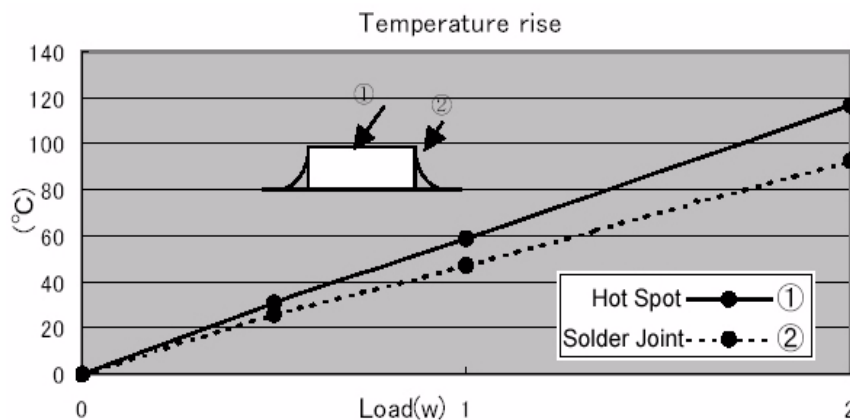
Type / Code	Package Type	Power Rating (Watts) @ 70°C	Maximum Working Voltage*	Maximum Overload Voltage	Resistance Temperature Coefficient	Ohmic Range and Tolerance	
						1%	5%
RHC 2512	2512	2.0W	200V	400V	± 100 ppm/°C	0.1Ω - 1MΩ	0.1Ω - 1MΩ

* Lesser of $\sqrt{PR}$ or maximum working voltage.

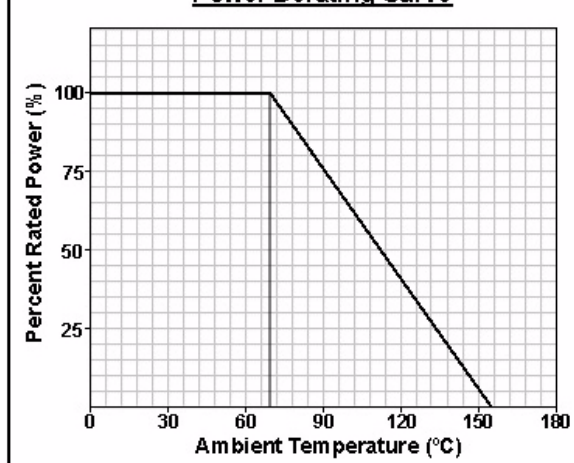
Performance Characteristics

Test	Typical
Moisture Resistance	$\pm 1\%$
Load Life	$\pm 1\%$
Resistance to Soldering	$\pm 1\%$
Temperature Cycling	$\pm 1\%$
Thermal Shock	$\pm 1\%$
Short Time Overload	$\pm 1\%$
Insulation Resistance	$\geq 1M\Omega$

Operating Temperature Range: -55°C to +155°C

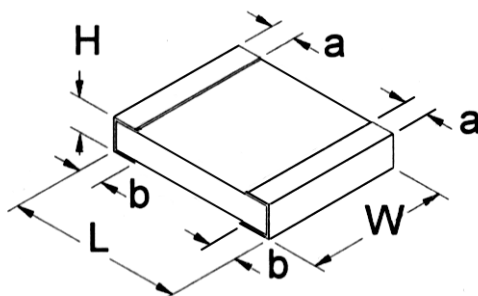


Power Derating Curve



How to Order

RHC		2512		10K		1%		R		
SEI Type		Code		Nominal Resistance		Tolerance		Packaging		
Type	Description	Code	Wattage	Size	Tolerance	Values	SEI Types	Pkg Qty	Description	Code
RHC	High Power	2512	2.0W	2512	1%	E24	RHC 2512	4,000	7" - Emboss	R
					5%					

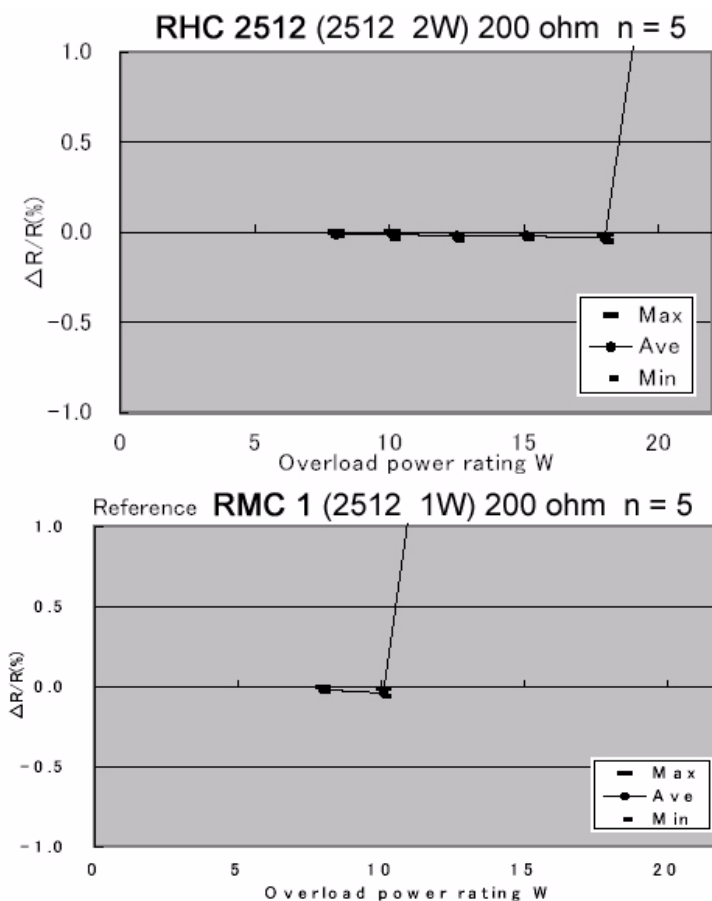
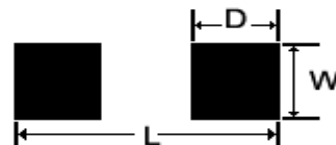


Mechanical Specifications

Type / Code	L Body Length	W Body Width	H Body Height	a Top Termination	b Bottom Termination	Units
RHC 2512	0.248 ± 0.008 6.30 ± 0.20	0.126 ± 0.008 3.20 ± 0.20	0.024 ± 0.004 0.60 ± 0.10	0.028 ± 0.008 0.70 ± 0.20	0.087 ± 0.008 2.20 ± 0.20	inches mm

Solder Pad Dimensions

Type / Code	L Total Length	W Total Width	D Pad Depth	Units
RHC 2512	0.315 8.00	0.138 3.50	0.118 3.00	inches mm



Test condition

Voltage(Power): 2.0, 2.25, 2.5, 2.75, 3.0, 3.25 times of rated voltage. (8W, 10.1W, 12.5W, 15.1W, 18W, 21.1W)

Applied time : Each voltage 5sec

As a reference test, the RMC was tested with the same rated voltage and testing substrate.