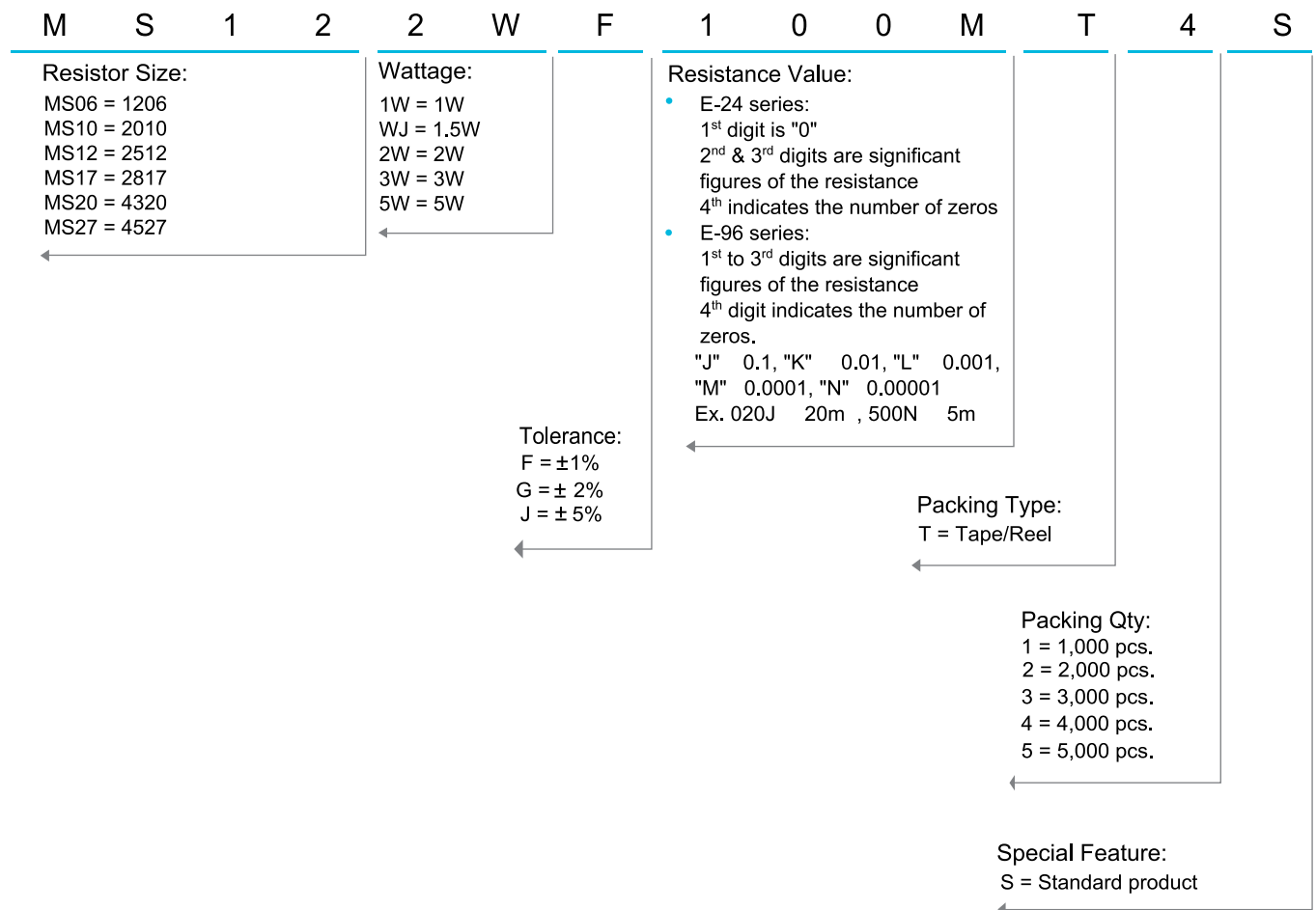


# Metal Strip Current Sensing Chip Resistors (MS)

## Performance Specification

Short Time Overload	±5%: ±(2.0% + 0.001Ω)Max ±1%&±2% : ±(1.0% + 0.001Ω)Max
Soldering Heat	±(0.5% + 0.005Ω)Max
Solderability	Min. 95% coverage.
Load Life in Humidity	±5%: ±(3.0% + 0.001Ω)Max ±1%&±2%: ±(1.0% + 0.001Ω)Max
Load Life	±5%: ±(3.0% + 0.001Ω)Max ±1%&±2 ± (1.0% + 0.001Ω)Max
Temperature Cycling	± (0.5%+ 0.005Ω)Max
Low Temperature Storage	± (1%+ 0.001Ω)Max
High Temperature Exposure	± (1%+ 0.001Ω)Max

## Ordering Procedure: Ex.: MS12, 2W, +/-1%, 10 mΩ T/R-4000



## Metal Strip Current Sensing Chip Resistors (MS)

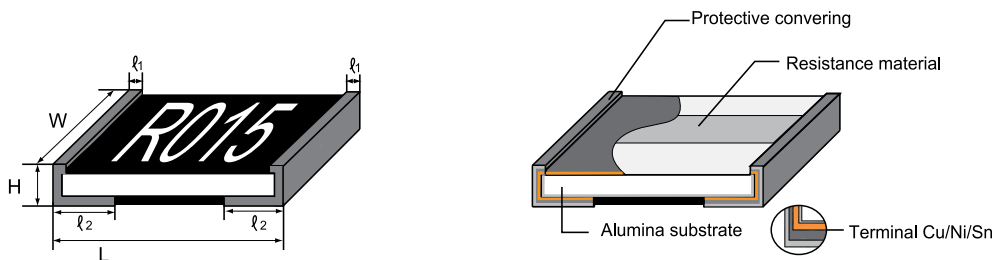
### Features

- Able to withstand high power
- Ultra Low sensing resistance
- Excellent frequency response
- Excellent frequency coefficient characteristics
- Lead free, RoHS compliant for globe applications and halogen free

### Application

- Mobile electronic equipment - Cellular phone, NB Tablet PC, GPS, DSC, HDD
- DC-DC converter, Adapter, Battery pack and charger
- Switching power supply
- Voltage Regulation module
- Power management applications

### Dimension



Type	Power Rating at 70°C	Tolerance %	Resistance Range	T.C.R. (PPM/°C)	Dimension (mm)				
					L	W	H	l <sub>1</sub>	l <sub>2</sub>
MS06 (1206)	1W	±1%, ±5%	3mΩ ~ 25mΩ	±150	3.10±0.20	1.60±0.30	0.70±0.20	≤1.00	0.50±0.25
MS10 (2010)	1.5W	±1%, ±5%	2mΩ ~ 100mΩ	±50	5.00±0.20	2.50±0.25	0.70±0.20	≤1.00	1.00±0.30
MS12 (2512)	2W	±5%	1mΩ	±275	6.35±0.20	3.20±0.25	0.70±0.20	≤1.00	0.70~2.00 ±0.30
	2W	±1%, ±5%	11mΩ ~ 100mΩ	±30					
	3W	±1%, ±5%	2mΩ ~ 10mΩ	±30					
MS17 (2817)	3W	±1%, ±5%	2mΩ ~ 100mΩ	±30	7.10±0.20	4.20±0.20	0.70±0.20	≤1.00	1.10±0.30
MS20 (4320)	3W	±1%, ±5%	2mΩ ~ 33mΩ	±30	11.00±0.30	5.00±0.25	0.65±0.20	≤1.00	2.50±0.30
MS27 (4527)	5W	±1%, ±5%	2mΩ ~ 50mΩ	±30	11.60±0.30	6.70±0.25	0.60±0.20	≤1.00	2.50±0.30

Note: Other sizes and resistor values can be customized on request

### Derating Curve

