Ultra Low Ohm (Metal Strip) Chip Resistor

Features

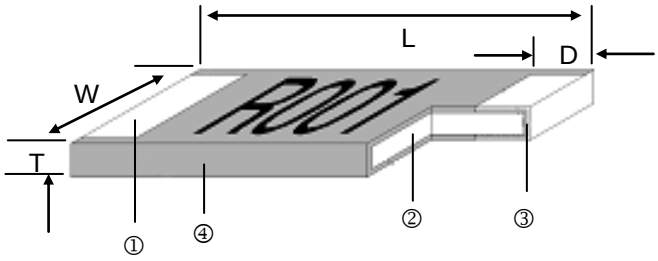
- High power rating up to 3 Watts
- Low TCR down to ±50 PPM/°C
- Resistance values from 0.5m to 10m ohm
- Customized resistance available
- Wide range package sizes 1206 / 2010 / 2512
- AEC-Q200 Compliance (only LR12 Black)

Applications

- NB (for Power Management)
- MB (for Power Management)
- SWPS (DC-DC Converter, Charger, Adaptor)
- Monitor (for Power Management)

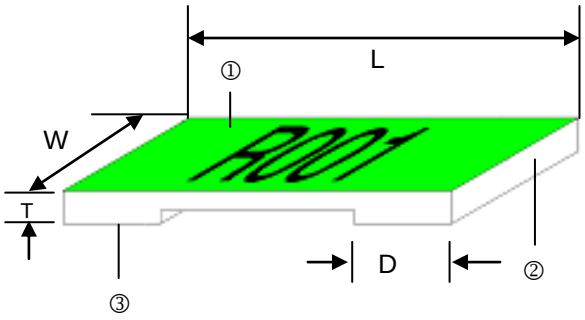
Construction & Dimension

2512



Black－Wave or IR reflow soldering

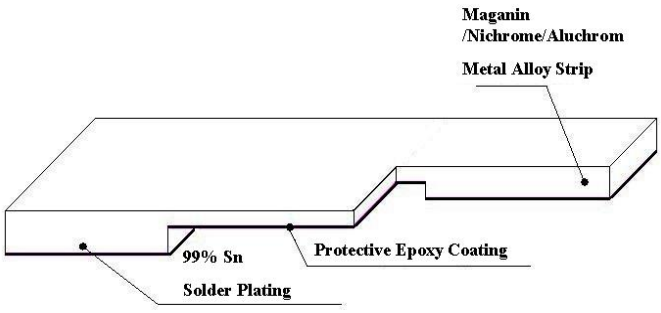
①	Solder Plating	③	Barrier Layer
②	Alloy Plate	④	Overcoat



Green－IR reflow soldering only

①	Overcoat	③	Solder Plating
②	Alloy Plate		

1206 & 2010



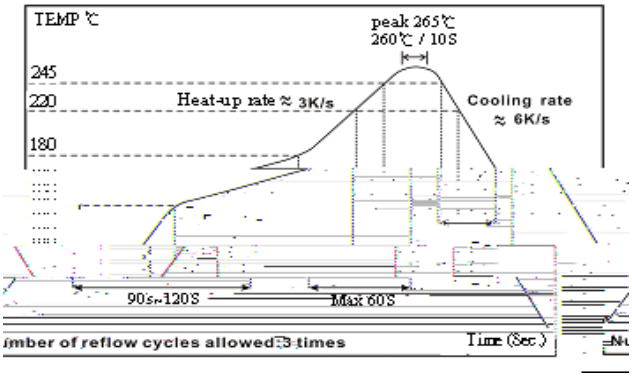
Type	Material
0M50~ R003	Manganese, Copper
3M5 ~ R010	Aluminum, Iron, Chromium

Part Numbering

Standard Electrical Specifications

Item / Part No.	Power Rating at 70°C	Operating Temp. Range	Resistance Range			TCR (PPM/°C)
			±1%	±3%	±5%	
LR06□TF0M50	1W	-55℃ ~ +170°C	0.5			±200
LR06□TD□□□□	1W		0.75 - 10			±50

Reflow



Green coating can't be working with wave soldering bath

Environmental Characteristics

Item	Requirement		Test Method
	Black coating	Green coating	
Temperature Coefficient of Resistance (T.C.R.)	As Spec.		**MIL-STD-202 Method 304** +25°C ~125°C, 25°C is the reference temperature
Short Time Overload	±0.5%	±1%	**JIS-C-5201-1 5.5** 5*rated power for 5 seconds
Endurance	±1%	±1%	**MIL-STD-202 Method 108A** 70±2°C, RCWV for 1000 hrs with 1.5 hrs “ON” and 0.5 hr “OFF”
Dry Heat	±1%	±1%	**JIS-C-5201-1 7.2** at +170°C for 1000 hrs
Solderability	95% min. coverage		**MIL-STD-202 Method 208H** 245±5°C for 3 seconds
Resistance to Soldering Heat	±0.5%	±1%	**MIL-STD-202 Method 210E** 260±5°C for 10 seconds
Thermal Shock	±0.5%	±1%	**MIL-STD-202 Method 107G** -55°C ~ 150°C, 100 cycles

**Green coating can’t be work with wave soldering bath.

RCWV(Rated Continuous Working Voltage)= √(P*R) or Max. Operating Voltage whichever is lower

■Storage Temperature: 15~28°C; Humidity < 80%RH

Derating Curve