

Ultra Low Ohm (Metal Strip) Chip Resistor



Features

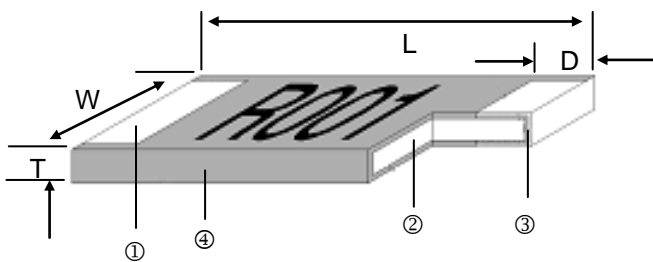
- High power rating up to 3 Watts
- Low TCR down to ± 50 PPM/ $^{\circ}$ C
- Resistance values from 0.5m to 10m ohm
- Customized resistance available
- Wide range package sizes 1206 / 2010 / 2512
- AEC-Q200 Compliance (only LR12 Black)

Applications

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

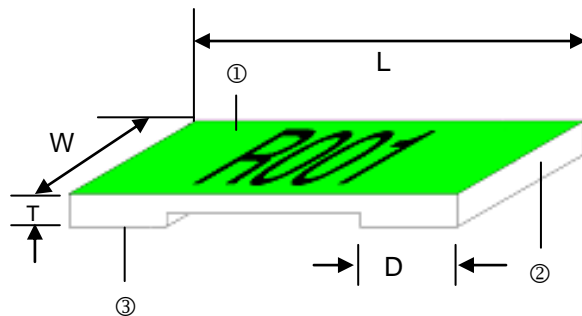
Construction & Dimension

2512



Black – Wave or IR reflow soldering

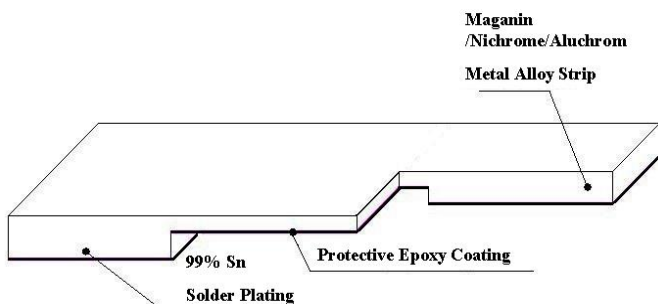
① Solder Plating	③ Barrier Layer
② Alloy Plate	④ Overcoat



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



Dimensions

Unit: mm

Part No.	Resistance	L	W	T	D	Weight (g) (1000pcs)
LR06□TF0M50	0.5	3.20±0.25	1.60±0.10	0.60±0.20	1.35±0.25	22.6
LR06□TD0M75	0.75	3.20±0.25	1.60±0.10	0.60±0.20	1.23±0.25	22.6
LR06□T□□□□□	1.0, 3.5, 4.0, 5.0, 6.0	3.20±0.25	1.60±0.10	0.60±0.20	1.10±0.25	22.6
LR06□T□□□□□	2.0, 3.0, 10	3.20±0.25	1.60±0.10	0.60±0.20	0.60±0.25	22.6
LR06□T□□□□□	1.2, 1.5, 7.0, 8.0, 9.0	3.20±0.25	1.60±0.10	0.60±0.20	0.90±0.25	22.6
LR10□TEA0M50	0.5	5.08±0.25	2.54±0.15	0.60±0.20	2.17±0.25	42.3
LR10□TDA0M75	0.75	5.08±0.25	2.54±0.15	0.60±0.20	2.04±0.25	42.3
LR10□TDA□□□□	1.0, 1.5	5.08±0.25	2.54±0.15	0.60±0.20	1.84±0.25	42.3
LR10□TDA□□□□	2.0, 6.0, 7.0, 8.0	5.08±0.25	2.54±0.15	0.60±0.20	1.54±0.25	42.3
LR10□TDA□□□□	3.0, 3.5	5.08±0.25	2.54±0.15	0.60±0.20	1.04±0.25	42.3
LR10 LR10□TDA□□□□	4.0, 5.0, 5.5	5.08±0.25	2.54±0.15	0.60±0.20	1.84±0.25	42.3

Part Numbering



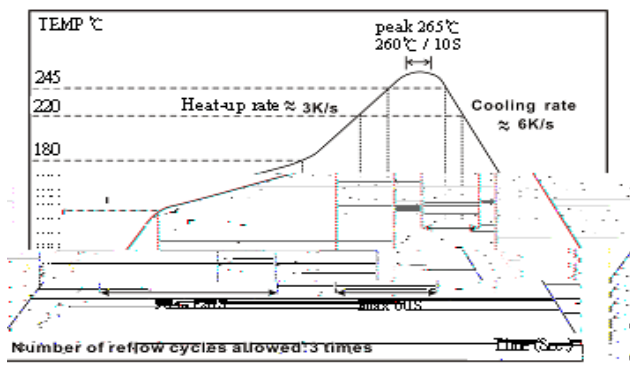
Standard Electrical Specifications

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

-55°C ~ +170°C



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)= $\sqrt{P \cdot R}$ or Max. Operating Voltage whichever is lower

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

Derating Curve

