



Ultra Low Ohm (Metal Strip) Chip Resistor



Features

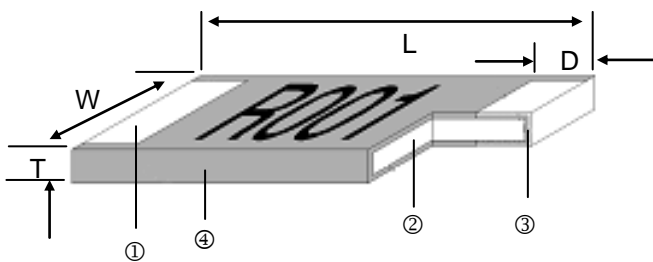
- High power rating up to 3 Watts
- Low TCR down to ± 50 PPM/ $^{\circ}$ C
- Resistance values from 0.5m to 10m ohm
- Customized resistance available
- Wide range package sizes 1206 / 2010 / 2512
- AEC-Q200 Compliance (only LR12 Black)

Applications

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

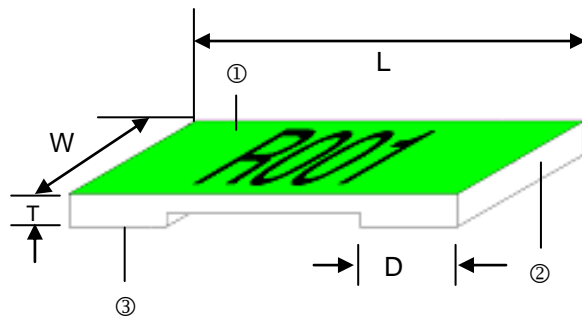
Construction & Dimension

2512



Black – Wave or IR reflow soldering

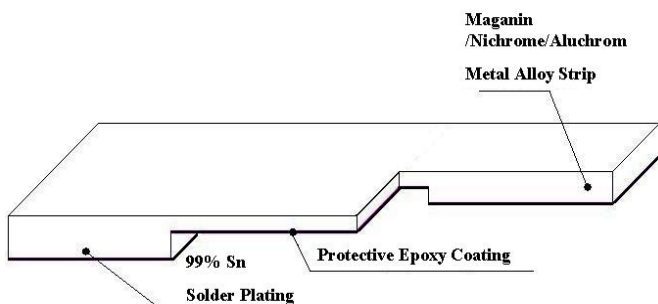
① Solder Plating	③ Barrier Layer
② Alloy Plate	④ Overcoat



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 (m)	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□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



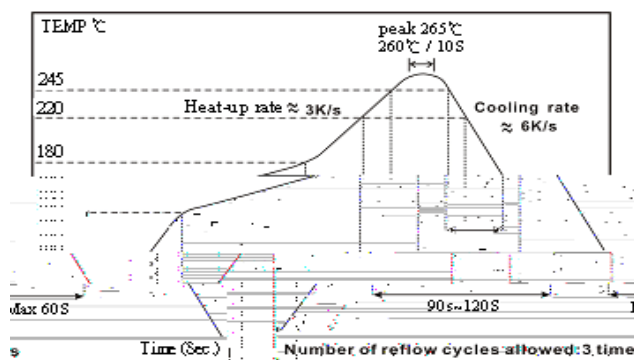
Standard Electrical Specifications

Item Part No.	Power Rating at 70°C	Operating Temp. Range	Resistance Range (m)			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 "Reflow Air Convection" is available
 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

