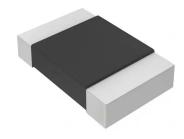


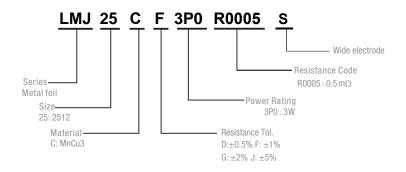


Description

- Proprietary processing technique produces extremely low resistance values
- Very low inductance
- Low thermal EMF
- Metallic Material



Part Numbering System



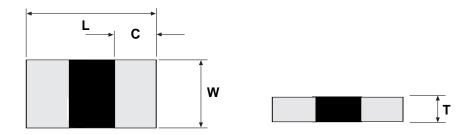
Parameter	Standard
Power Rating	3W
Resistance Value	0.5mΩ
Operating Temperature Range	-55 to +170°C
Component Temperature Coefficient (TCR)	±350 ppm/°C
Maximum Working Voltage (V)	(P x R) ^{1/2}

Standard Electrical Specifications

Туре	Rating Power at 70℃	T.C.R. (ppm/°C)	Resistance Range(m Ω) $\pm 0.5\%$ (D) $\pm 1.0\%$ (F) $\pm 2.0\%$ (G) $\pm 5.0\%$ (J)	Meterial	Electrode	Operating Temperature(℃)
LMJ25	3W	±350	0.5	MnCu3	Wide	-55~+170°C



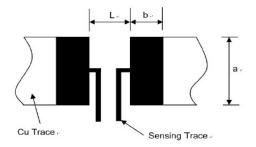
Construction



Unit: Millimeters

Style	Resistance (mΩ)	L	W	С	Т	Material
LMJ25	0.5	6.4±0.2	3.2±0.2	2.1±0.25	0.9 ±0.20	MnCu3

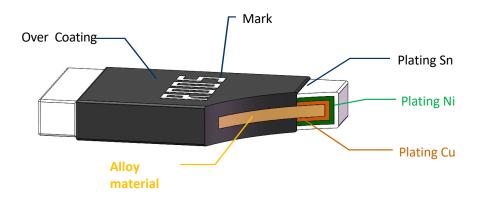
Recommended land pattern



Unit: Millimeters

Resistance Range (mΩ)	а	b	L	
0.5	4.0±0.1	3.1±0.1	1.3±0.1	

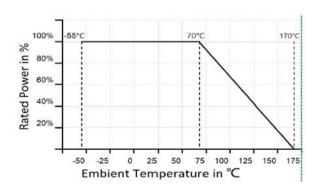
Product structure diagram



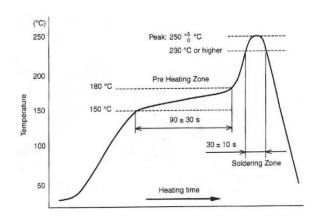


Power Derating Curve

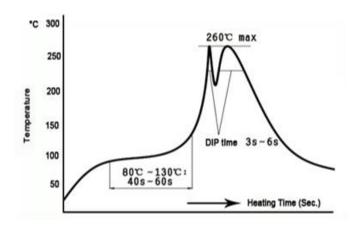
For resistors operated in ambient temperatures 70°C, power rating shall be derated inaccording with the curve below:



IR Reflow-Soldering Profile



Wave-Soldering Profile

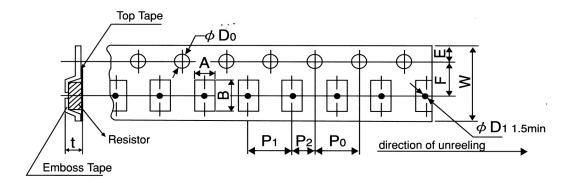


Product Characteristics

Item		Test condition/	Methods	Limited	Standard
Temperature coefficient of resistance	, ,	nperature		Refer to Spec	MIL-STD-202 Method 304
Short time Overload	the resistance	change rate aft	# of rated power 5 times	≤±0.5%	JIS-C5201-1 4.13
	2312	3	5 times		
Resistance to Soldering Heat	260℃± 5℃ ti	me: 10sec± 1se	ec	≤±0.5%	MIL-STD-202 Method 210
Temperature Cycling	-55℃ (15min)/+150°C (15min)), 1000 cycles	≤±0.5%	MIL-STD-202 Method107G
Low temperature Storage	-55±2℃ for 9	6 hours, No pow	/er	≤±0.5%	MIL-STD-26E
High Temperature Storage	170℃for 1000	Ohours, No powe	er	≤±1%	IEC6011501-4.25
Bias Humidity	+85℃,85%	RH,10%bias, ′	1000hours	≤±0.5%	MIL-STD-202 Method103
Solderability	245±5℃, 3±1	sec		At least 95% of surface area of electrode shall be covered with new solder	IEC60115-1-4.17 JIS-C5201-4.17
Load life	70℃± 2℃, 10 "ON", 0.5 hou		ed power 1.5 hours	≤±1%	MIL-STD-202 Method 108
Terminal Strength	on the bendin kg at the cent mm. Under th	the bendability to g test machine, er of the test boo	est board and placed apply a force of 2.5 ard and press down 2 conds, measure the	≤±0.5%	JIS-C5201-1 4.33

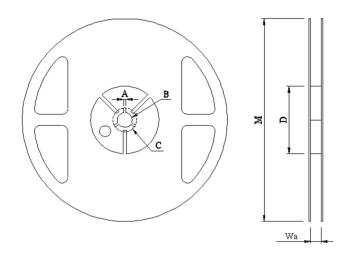


Tapping & Package



Туре	Pack	A ±0.2	B ±0.2	D0 +0.05-0	E ±0.1	F ±0.05	P0 ±0.1	P1 ±0.1	P2 ±0.1	W ±0.2	D1 ±0.05	T ±0.15
2512	Emboss	3.60	6.90	1.50	1.75	5.50	4.00	4.00	2.00	12.00	1.50	1.20

Reel Specification



Unit: Millimeters

Туре	A	В	С	D	M	w
2512	2.00±0.5	13.50±0.5	21.00±0.5	60.00±1.0	178.00±2.0	13.80±0.5

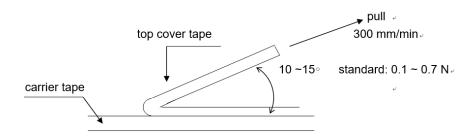
Packaging

Quantity: 4, 000pcs

8mm wide tape on 178mm(7 inch) diameter reel -specification EIA Standard 481.

Peel strength of upper belt

Stripping speed: 300 mm / min; The peel force is between 0.1N and 0.7n.



Storage conditions & shelf life

It can be stored for 2 years under closed conditions with temperature of 5 $^{\circ}$ C \sim 35 $^{\circ}$ C and relative humidity of 40 \sim 75

Please avoid the following harsh environment during storage to avoid affecting the product performance and solder connectivity: the places with corrosive gases such as sea breeze, Cl2, H2S, NH3, SO2 and NO2 shall be stored without direct sunlight.

Precautions for product use

When measuring the resistance value before welding, a special resistance meter with high precision shall be used. When measuring, a 4-wire probe or fixture must be used. 4. When measuring parts with a wire measuring needle, the 4 measuring needles must indeed contact the parts.

Avoid damaging the protective layer during manual welding or clamping with tweezers.

When the PCB is divided or fixed on the support, be careful to avoid excessive bending causing mechanical stress to the resistor.

It shall be used within the rated power range within the specification, especially when the power exceeds the rated value, which may affect the reliability of the product