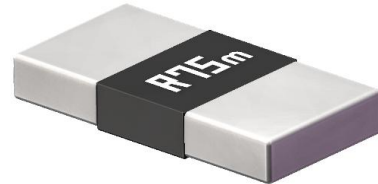
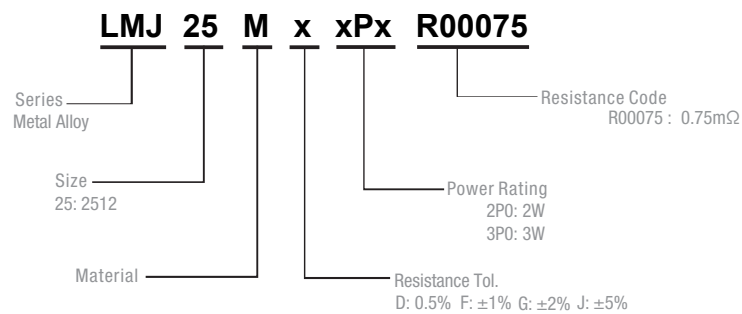


Description

- Thick copper material conductor
- High rated power
- Extremely low temperature drift (Good TCR)
- Ultra-long-term stability
- Metallic Material
- Halogen-free and lead-free compliant with RoHs



Part Numbering System



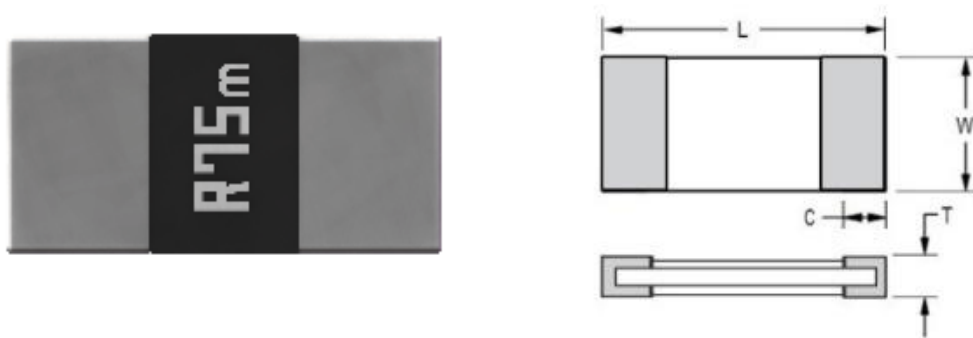
Parameter	Standard
Power Rating	2W&3W
Resistance Value	0.75mΩ
Operating Temperature Range	-55 to +170°C
Component Temperature Coefficient (TCR)	± 100ppm/°C
Maximum Working Voltage (V)	$(P \times R)^{1/2}$
Rating Current(A)	$(P / R)^{1/2}$

P=Power Rating; R=Resistance Value

Standard Electrical Specifications

Type	Rating Power at 70°C	T.C.R. (ppm/°C)	Resistance Range(mΩ) D: 0.5%; F: 1.0% G: 2.0%; J: 5.0%	Material	Operating Temperature(°C)
LMJ25	2W&3W	±100	0.75	CuMn	-55~+170°C

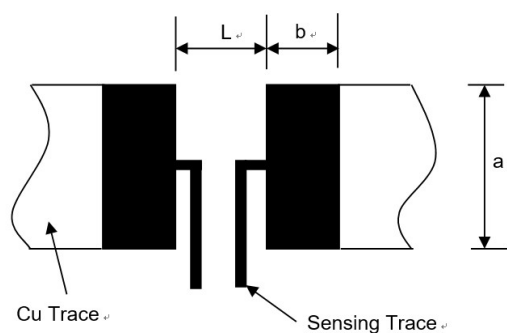
Dimensions



Unit: Millimeters

Type	Resistance Range (mΩ)	L	W	C	T
LMJ25	0.75	6.4 ± 0.2	3.2 ± 0.2	2.1 ± 0.25	0.9 ± 0.2

Recommended land pattern

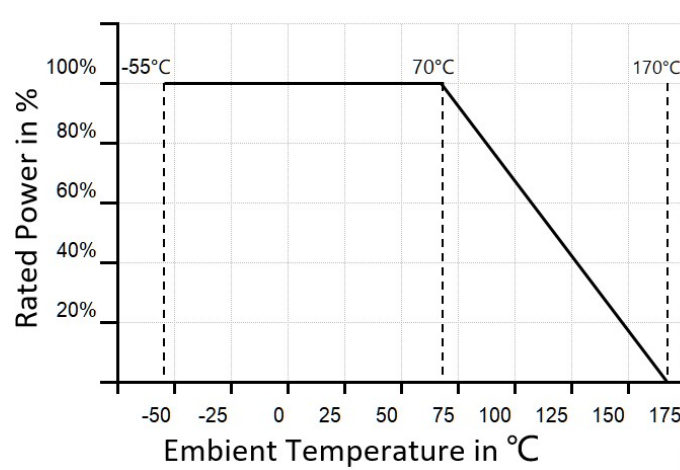


Unit: Millimeters

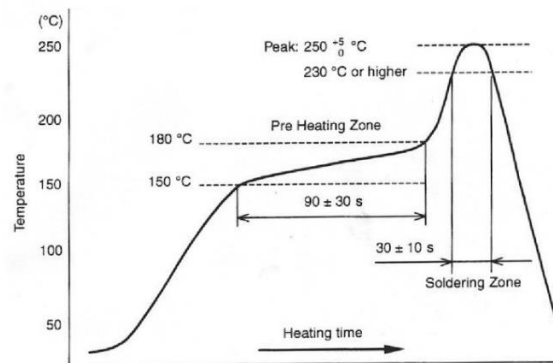
Resistance Range (mΩ)	a	b	L
0.75	4.0 ± 0.1	3.1 ± 0.1	1.3 ± 0.1

Derating Curve

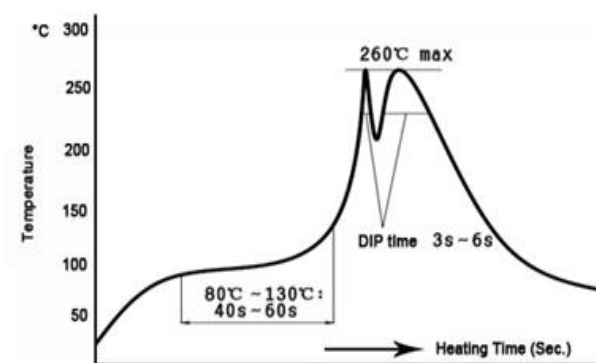
For resistors operated in ambient temperatures 70°C , power rating shall be derated in accordance with the curve below:



IR Reflow-Soldering Profile



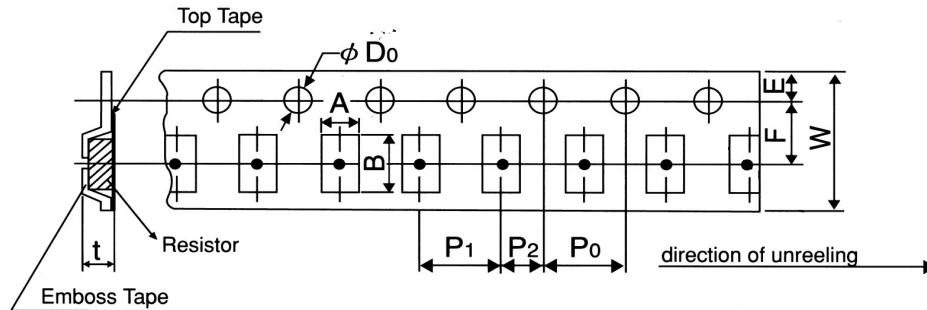
Wave- Soldering Profile



Product Characteristics

Item	Test condition/ Methods	Limited	Standard						
Temperature coefficient of resistance	TCR =(R-R ₀)/R ₀ (T ₂ -T ₁)X 10 ⁶ R ₀ : resistance of room temperature R: resistance of 125℃ T ₁ : Room temperature T ₂ : Temperature at 125℃	Refer to Spec	MIL-STD-202 Method 304						
Short time Overload	Apply an overload for 5 seconds, then let it stand still for 24 hours before measuring the rate of change in resistance.	≤±0.5%	MIL-R-26E						
	<table><tr><td>Type</td><td>Power(W)</td><td># of rated power</td></tr><tr><td>2512</td><td>2/3</td><td>5 times</td></tr></table>			Type	Power(W)	# of rated power	2512	2/3	5 times
	Type			Power(W)	# of rated power				
2512	2/3	5 times							
Resistance to Soldering Heat	260℃± 5℃ time: 10sec± 1sec	≤±0.5%	MIL-STD-202 Method 210						
Temperature Cycling	-55℃ /+150℃, 15min, 1 000 cycles	≤±0.5%	MIL-STD-202 Method107G						
Low temperature Storage	-55℃±2℃ for 96hours, No power	≤±0.5%	MIL-STD-26E						
High Temperature Storage	170℃ for 1000hours, 24±4 hours , No power	≤±1%	IEC6011501-4.25						
Bias Humidity	+85℃ , 85% RH, 10%bias, 1000hours	≤±0.5%	MIL-STD-202 Method103						
Solderability	245±5℃ , 3±1sec	At least 95% of surface area of electrode shall be covered with new solder	IEC60115-1-4.17 JIS-C5201-4.17						
Operational life	70℃± 2℃, 1000 hours, at rated power 1.5 hours “ON”, 0.5 hours “OFF”	≤±1%	MIL-STD-202 Method 108						
Terminal bending	(Flexural test) Weld it into the bending test plate, place it on the bending test machine, apply 2.5kg force in the center of the test plate, press 2mm under the load for 60s, and measure the resistance change rate.	≤±0.5%	JIS-C5201-1 4.33						

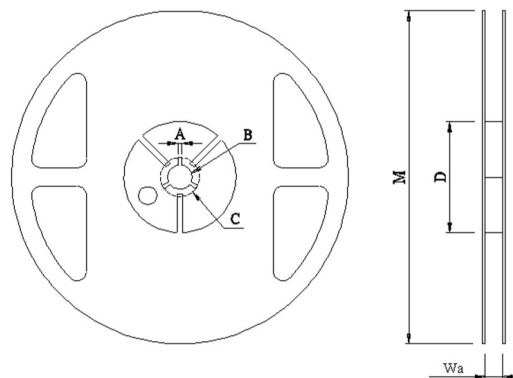
Tapping & Package



Unit: mm

Type	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 ± 0.05	T ± 0.15
2512	Paper	3.60	6.90	1.50	1.75	5.50	4.00	4.00	2.00	12.00	1.20

Reel Specification



Unit: mm

Type	A	B	C	D	M	W
2512	2.00 ± 0.5	13.5 ± 0.5	21.00 ± 0.5	60.00 ± 1.0	178.00 ± 2.0	13.80 ± 0.5

Packaging

Quantity: 4000pcs

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