

Square E-beam Welding Alloy Resistor

- Electron-beam welding craft, pure copper electrode, Ideal solution for current detection applications.
- High reliability and long-term stability, superb pulse load capability
- All-metal structure, surface pickling and passivation treatment, vulcanization resistance, strong weather resistance
- Ultra-low parasitic inductance, fast response, suitable for high frequency AC current detection
- RoHS compliant



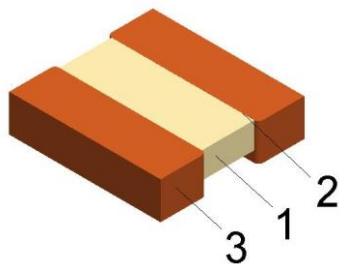
GENERAL SPECIFICATIONS

Model	Resistance Value (mΩ)	Rated Power (70°C)	Material	T.C.R (ppm/°C)	Tolerance	Inductance	Thermal EMF (0-100°C)	Temp. Range
RSN2726	0.1~0.2	12W	M	±150	±0.5 (D) ±1 (F) ±5 (J)	< 1nH	< 1μV/°C	-55°C ~ +170°C
	0.3	11W						

CHARACTERISTICS

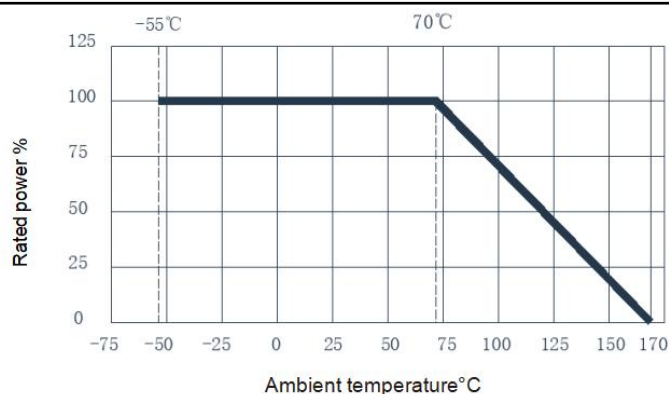
Test Item	Standard	Test method
T.C.R	Within specified T.C.R	IEC60115-1 4.8, measured point 20°C~+130°C, reference point +20°C
Solderability	Minimum 95%	IEC60115-1 4.17, 245°C tin bath, 3s
Short time overload	△R±1%	IEC60115-1 4.13, five times rated power, 5s
Resistance to soldering heat	△R±0.5%	IEC60115-1 4.18, 260°C tin bath, maintaining 10s
High temp. & humidity	△R±1%	Applying 10% of the rated power (current) or the maximum current of the component (whichever is lower) for a duration of 1000 hours in a temperature of 85° C and a humidity of 85% according to MIL-STD-202 method 103
High temp. storage	△R±1%	IEC60115-1 4.25.3, 1000hours @170°C, without loading current and voltage
Low temp. load	△R±0.5%	IEC60115-1 4.36, cooled from room temperature to -55°C, no load for 1.5 hours, applying rated power, continuously flowing for 45 minutes, cool for 15 minutes, then recover to room temperature for testing again.
Temperature cycle	△R±1%	IEC60115-1 4.19, -55°C @30mins ~ +155°C @30mins ; 1000 cycles
Load life	△R±1%	IEC 60115-1 4.25.1, 1000hrs., 70°C±2°C, rated current, or the maximum current rating of the component (whichever is lower) is applied for 1.5 hours/0.5 hour interruption

CONSTRUCTION

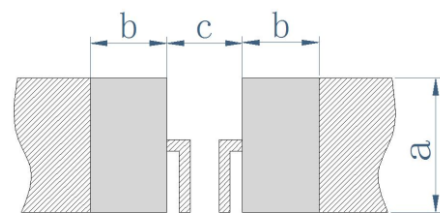
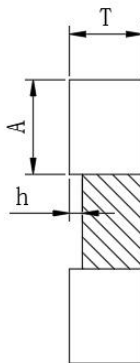
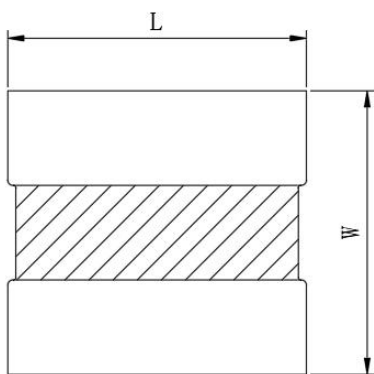


- ① Manganese copper, low T.C.R ($< 20\text{ppm}/^{\circ}\text{C}$)
- ② Electron-beam welding
- ③ Pure copper electrode

DERATING CURVE



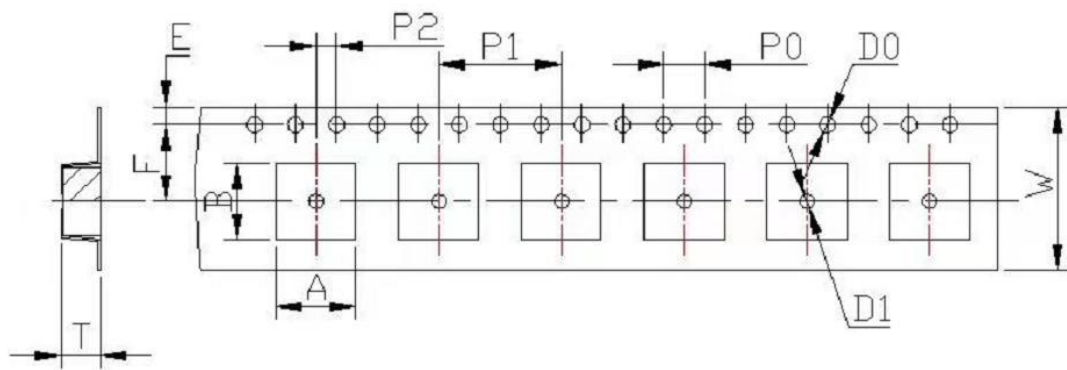
DIMENSIONS & RECOMMENDED PAD AND SIZE [mm]



Resistance Value (mΩ)	L	W	A	h	T	a	b	c
0.1~0.2	6.95±0.2	6.6±0.15	2.3±0.3	0.5±0.2	1.7±0.1	7.95	3	1.6
0.3	6.95±0.2	6.6±0.15	2.1±0.3	0.5±0.2	1.5±0.1			

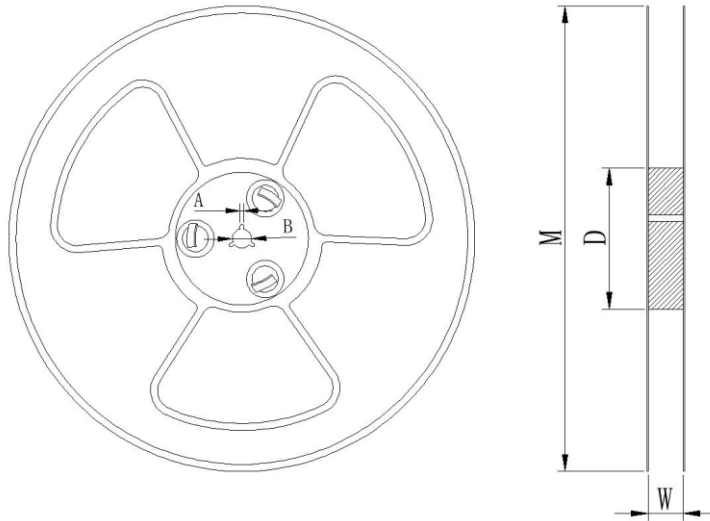
Notice : word code marking as laser engraving, the "L" is used in the naming to indicate the mΩ and also show the decimal point position, which corresponds to the mark "m". for example : 0m20=0.2mΩ

Packing specifications and size [mm]



A	B	W	E	F	P0	P1	P2	ØD0	T	Qty
7.8	7.5	16	1.75	7.5	4	12	2	1.5	1.9	2,000

Packing specifications and size [mm]



Reel Type	W	M	A	B	D
13" reel for 16mm tape	16.0±1.0	Φ330±2.0	2.0±0.5	Φ13.5±0.5	Φ99.0±1.0

ORDERING PROCEFURE EXAMPLE

Model#	Material	Resistance value	Tolerance	Packing code
RSN2726	M : Manganese copper	L100 = 0.1mΩ	D = ±0.5% F = ±1% J = ±5%	T0 : Tape & Reel standard B0 : without tape and reel