

Square E-beam Welding Alloy Resistor

Current sensing, SMD, Excellent stability, AEC-Q200

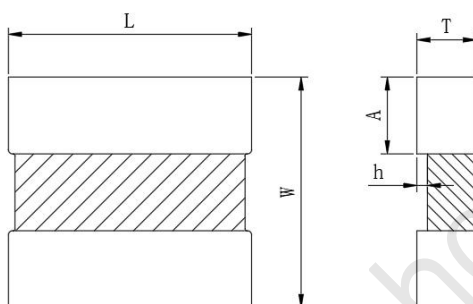


Features:

- 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
- customization

parameter:	
resistance value	0.1mΩ~0.3mΩ
tolerance	±0.5%(D), ±1%(F), ±5%(J)
TCR	150ppm
temperature range	-55°C~+170°C
inductance	<1nH
thermal EMF (0-100°C)	<1 μV/°C
power (P _{70°C})	MAX 12W

Dimensions(mm):

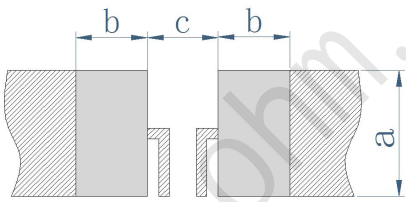


series	power(P _{70°C})	material	resistance value	tolerance	TCR	L (mm)	W (mm)	A (mm)	h (mm)	T(mm)
WSN2726	12W	M	0.1mΩ-0.2mΩ Ω	±1%(F) ±5%(J)	±150ppm	6.95±0.2	6.6±0.15	2.3±0.3	0.5±0.2	1.7±0.1

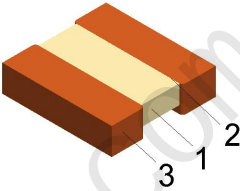
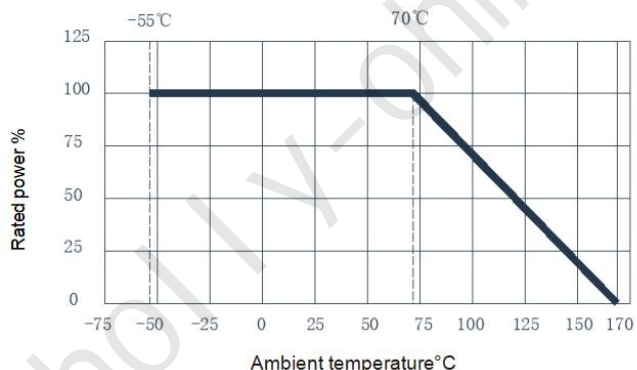
<https://holly-ohm.com> E-beam welding current sensing alloy resistor

11W	M	0.3mΩ		±150ppm	6.95±0.2	6.6±0.15	2.1±0.3	0.5±0.2	1.5±0.1
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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

Recommended pad and size(mm):					
	series	resistance value	a (mm)	b (mm)	c (mm)
		WSN2726	0.1mΩ-0.3mΩ	7.95	3

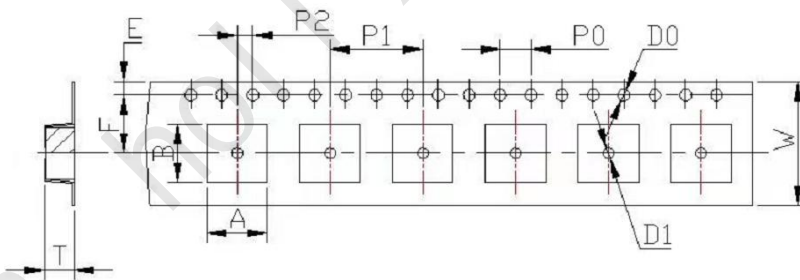
Type Designation: WSN2726ML100FT0 WSN2726 Manganese copper 0.1mohm 1% package with tape and reel														
W	S	N	2	7	2	6	M	L	1	0	0	F	T	0
WSN Bare chip E-beam welding alloy resistor			Size 2726		material M: Manganese copper		resistance value L100 = 0.1mΩ		tolerance D=±0.5% F=±1% J=±5%		code T0: package with tape and reel B0: without tape and reel Tx: special code(x: 0~9)			

Construction:	Derating Curve:
 <ul style="list-style-type: none"> 1.manganese copper , low TCR(<20ppm/°C) 2.electron-beam welding 3.pure copper electrode 	

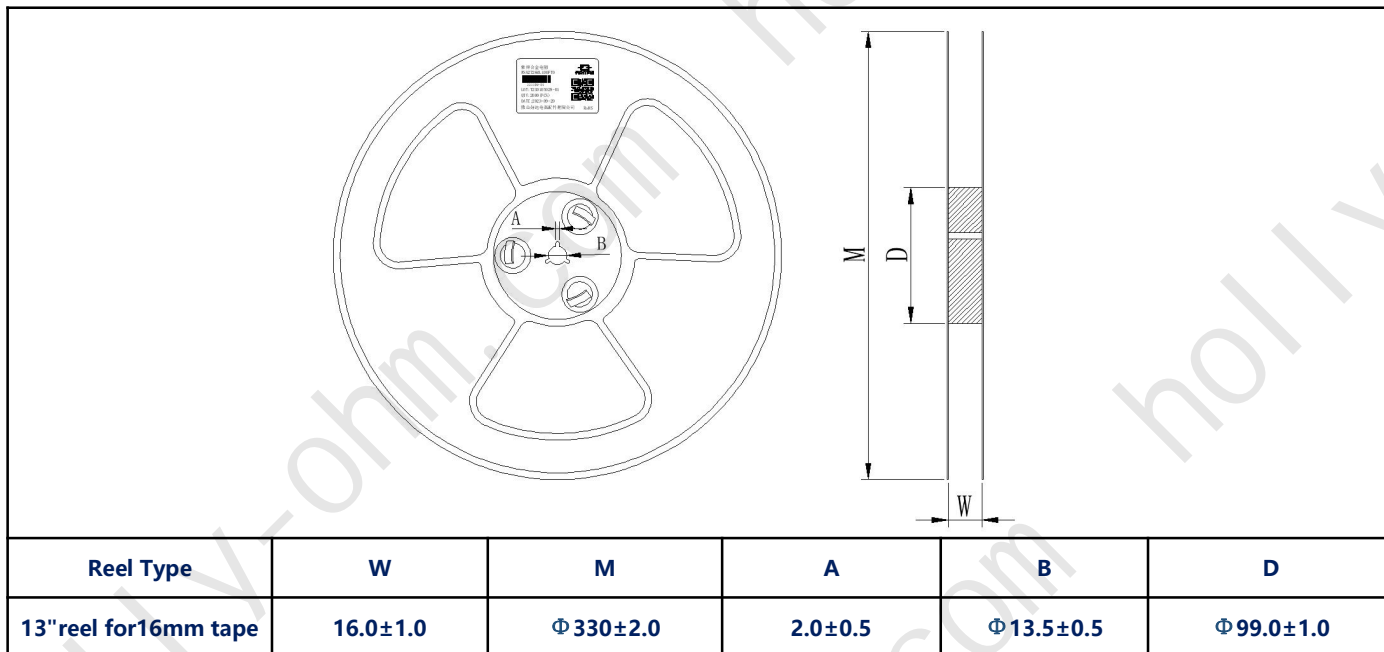
Performance:		
Test Item	standard	Test method

TCR	Within specified TCR	IEC60115-1 4.8, measured point 20°C ~ +130°C, reference point +20°C
Solderability	No visible damage Minimum 95% covered	IEC60115-1 4.17, 245°C tin bath, 3s
Short-time overload	No visible damage $\Delta R \pm 1\%$ Maximum	IEC60115-1 4.13, five times rated power, 5s
Resistance to soldering heat	No visible damage $\Delta R \pm 0.5\%$ Maximum	IEC60115-1 4.18, 260°C tin bath, 10s
High temp. & high humidity	No visible damage $\Delta R \pm 1\%$ Maximum	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 temperature storage	No visible damage $\Delta R \pm 1\%$ Maximum	IEC60115-1 4.25.3, 1000hours@170°C, without loading current and voltage
Low temperature load	No visible damage $\Delta R \pm 0.5\%$ Maximum	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	No visible damage $\Delta R \pm 1\%$ Maximum	IEC60115-1 4.19, -55°C@30mins ~ +155°C@30mins; 1000 cycles
load life	No visible damage $\Delta R \pm 1.0\%$ Maximum	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

Packing specifications and size (mm):



Type	A	B	W	E	F	P0	P1	P2	ΦD0	T	Quantity
2726	7.8	7.5	16	1.75	7.5	4	12	2	1.5	1.9	2000



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version update record

Version NO.	update record	person in charge	Issue date
A0	new version release	Shenguang Zhu	25Feb2022
A1	Update parameter and performance metrics	Qingke Zeng	7Oct2023