HoT chip jumper resistor 0R series datasheet

Product Features

1.Tin-plated alloy plate, plastic sealing process, intermediate insulation treatment, good welding performance;

2.High reliability, high overload capacity;

3.Rated current 10~40A;

4.Wide operating temperature range -20~150℃, non-inductive design;

5.Comply with ROHS requirements and halogen-free requirements

Product Applications

1.Drive technology, power electronics;

2.Low inductance circuit;

3.High current pulse circuit;

4.Current sampling, feedback circuit;

5.Home appliance control, automotive electronics, communication power suppl。

Product Model

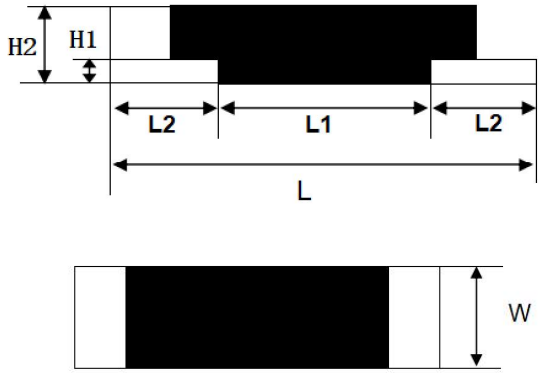
Selection Example: HoTFe-5.2D-0R

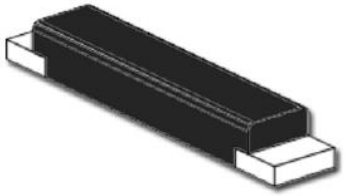
Ho	TFe	5.2	D	0R
↓	↓	↓	↓	↓
Manufacturer	**Product Series**	**Product Length**	**Product Type**	**Product Resistance**
Ho	TFe：Iron TCu：Copper	5.2mm 8.2mm 10.2mm 13.2mm	Plastic sealed (black glue insulation)	0Ω

For specific parameters, please see the details on the next page

High-tech enterprises IATF16949 ISO9001 RoHS REACH

Product specifications (unit: mm)

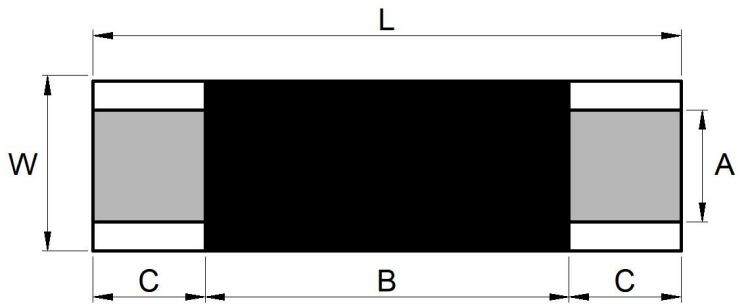




L: length
W: width
H1/H2: thickness
L1: insulating layer length
L2: tinned end length

Product Model	L±0.2	W±0.2	H1±0.15	H2±0.15	L1±0.5	L2±0.4
HoTFe/TCu-5.2D-0R	5.2	1.5	0.5	1.0	2.8	1.0
HoTFe/TCu-8.2D-0R	8.2	1.5	0.5	1.0	5.8	1.0
HoTCu-10.2D-0R	10.2	1.5	0.5	1.0	7.8	1.0
HoTCu-13.2D-0R	13.2	1.5	0.5	1.0	10.8	1.0

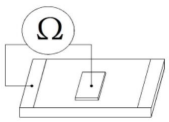
Recommended pad size (unit: mm)

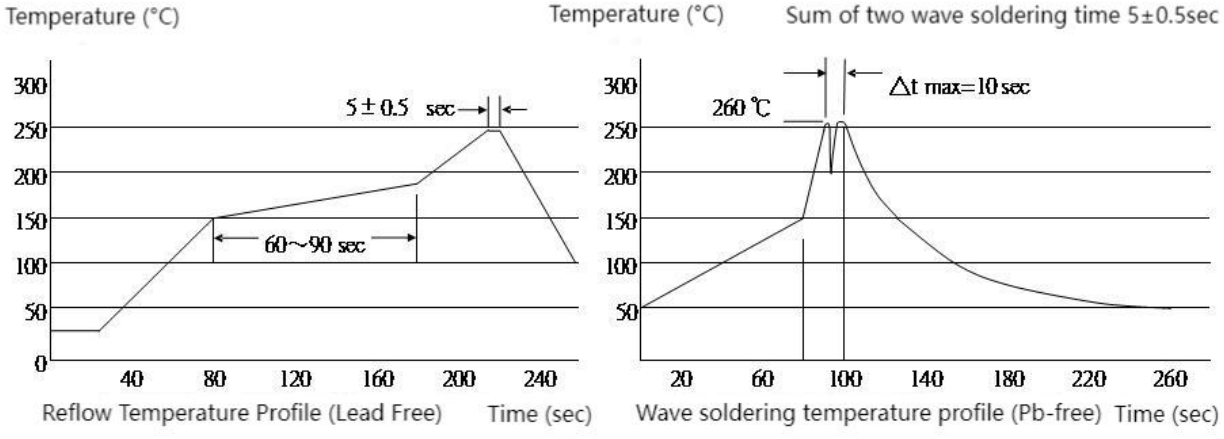


The shaded "black" part is the location of the plastic insulating oil layer

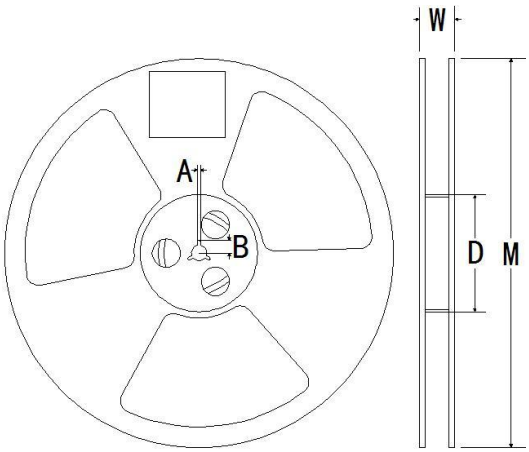
The shaded "gray" part is the location of the circuit board pad

Product Model	L	W	A	B	C
HoTFe/TCu-5.2D-0R	6.8	2.5	1.5	3.4	1.7
HoTFe/TCu-8.2D-0R	9.8	2.5	1.5	6.4	1.7
HoTCu-10.2D-0R	11.8	2.5	1.5	8.4	1.7
HoTCu-13.2D-0R	14.8	2.5	1.5	11.4	1.7

Electrical performance test		
project	**Inspection description and test conditions**	**standard**
Internal resistance	Test the resistance value of the two ends of the original	Within the specified value
Working current	The component can withstand working current of no less than 10A	Rated 20A
Insulation resistance	Refer to the picture on the right, use a flat conductor (recommended 1mm*1mm), press it on the insulation layer with a force of less than 1kg, and test the insulation value between the conductor and the two ends of the component. 	9VDC，>20MΩ
Insulation layer adhesion	Use the thumb test or an eraser to test the insulator (bottom and top) with a force of 3.0+1/-0KGF and rub it back and forth 10 times without removing the paint.	Glue peeling area <10%
SMT reflow test (See the reflow curve for details)	Reflow oven temperature: 180℃~250℃, reflow time: 60S	Tinning is good, and the insulating oil does not fall off
Electric soldering iron test	Soldering iron temperature: 300±10℃, soldering time: 3±0.5S	Tinning is good, and the insulating oil does not fall off
Wave soldering test (See reflow soldering curve for details) (SJMB series only)	Wave peak furnace temperature: 260±5℃, two wave peak time: 8S~10S	Tinning is good, and the insulating oil does not fall off
High temperature storage	Place in a constant temperature and humidity cabinet at 66℃ and 15% humidity for 96 hours, then take it out and let it stand for 60 minutes before checking	The two tinned ends will not oxidize and the insulating oil layer will not fall off
Low temperature storage	Place in a constant temperature and humidity cabinet at -20℃ and 15% humidity for 96 hours, then take it out and let it stand for 60 minutes before checking	The two tinned ends will not oxidize and the insulating oil layer will not fall off
耐湿储存	Place in a constant temperature and humidity cabinet at 40±2℃ and 90~95% humidity for 96 hours, then take it out and let it stand for 60 minutes before checking	The two tinned ends will not oxidize and the insulating oil layer will not fall off

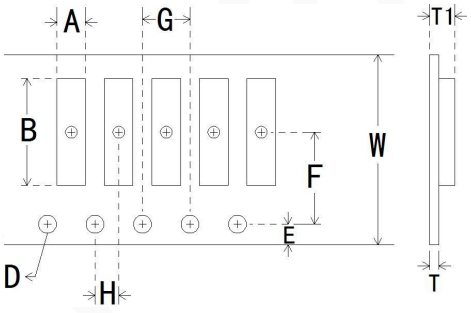


Tape box dimensions (unit: mm)

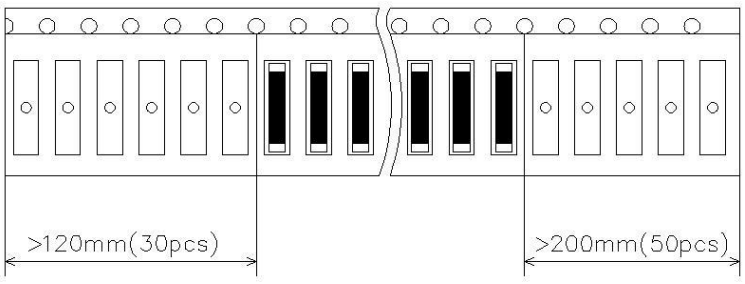


Product Model	A±0.3	B±0.3	D±0.3	W±0.3	M±1.0
HoTFe/TCu-5.2D-0R	2.3	10.7	99.5	12.4	330
HoTFe/TCu-8.2D-0R	2.3	10.7	99.5	16.4	330
HoTCu-10.2D-0R	2.3	10.7	99.5	20.4	330
HoTCu-13.2D-0R	2.3	10.7	99.5	24.4	330

Carrier tape dimensions (unit: mm)



Blank tape size at front and rear ends



Product Model	A±0.1	B±0.1	W±0.3	E±0.1	F±0.1	G±0.1	H±0.1	T±0.1	D±0.1	T1±0.1
HoTFe/TCu-5.2D-0R	1.9	5.5	12	1.75	5.5	4	2	0.3	1.5	1.15
HoTFe/TCu-8.2D-0R	1.9	8.5	16	1.75	7.5	4	2	0.3	1.5	1.15
HoTCu-10.2D-0R	1.9	10.5	24	1.75	10.5	4	2	0.3	1.5	1.15
HoTCu-13.2D-0R	1.9	13.5	36	1.75	14.5	4	2	0.3	1.5	1.15

Installation method:

Reel: 12K/pcs

Instructions:

1.Product Instructions

（1）During the use of the product, pay attention to surface protection to prevent defects such as bumps and scratches on the product surface.

（2）When installing and using the product, avoid the product from being affected by mechanical stress.

（3）The long-term power of the product should be less than or equal to the rated power to avoid resistance drift caused by long-term overload.

（4）When using the product under high temperature or poor heat dissipation conditions, refer to the power consumption reduction curve for derating.

（5）Before using the product, avoid taking the product out of the package to avoid risks such as product oxidation leading to poor welding.

2. Product Storage Instructions

（1）The product storage environment temperature is 5~35℃, humidity is less than 65%RH, and the humidity should be kept as low as possible.

（2）The product should be stored in a clean, dry environment without harmful gases.

（3）Before using the product, avoid taking the product out of the package.

（4）Under the above storage conditions, the product can be kept for 1 year.

（5）For products over 1 year old, check whether the surface is oxidized and perform welding test.。

Revision of curriculum vitae:

Serial number	Modifications	Modified Date	Reason for modification	Version
A1	2022-04-08	Size marking update	Yongkang Huang	Wenyi Leng
A2	2023-09-15	Package Quantity Updates	Yongkang Huang	Wenyi Leng

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