

Wuhan FlowGreen Electronic

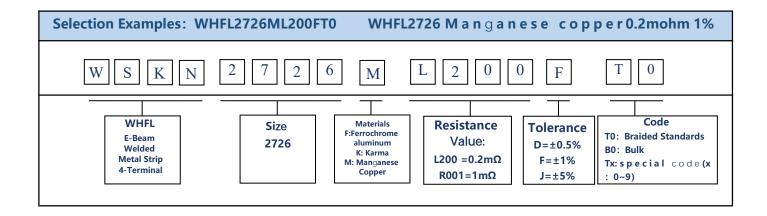
Square Hole Type Beam Welding Alloy Resistors, 4 Terminal Chip, For current sensing, Excellent long-term stability, Passed AEC-Q200 automotive grade reliability test.



Product Features:

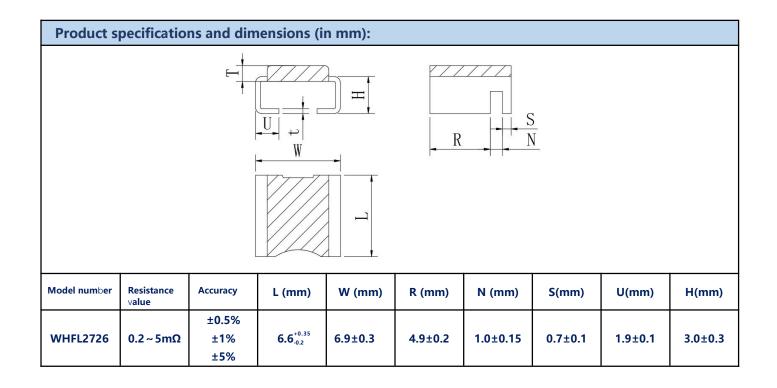
- Electron beam welding process, 4-terminal structure,
 pure copper electrode, ideal solution for current detection
- applications.
 Good product consistency, reliability, high stability,
- high pulse resistance, support ±0.5% resistance
- tolerance.
- Passed AEC-Q200 automotive grade reliability test.
- Comply with RoHS and other environmental
- requirements.
- Support special specification customization.

Electrical specifications:					
Resistance value	0.2 ~ 5 mOhm				
Resistance tolerance	±0.5%(D), ±1%(F), ±5%(J)				
Resistance temperature coefficient	MIN 25 ppm/°C				
Operating temperature range	-55℃ +175℃				
Inductance	<3nH				
Thermal EMV (0-100°C)	<1µV/ ℃				
Power rating P70°C	MAX 12W				

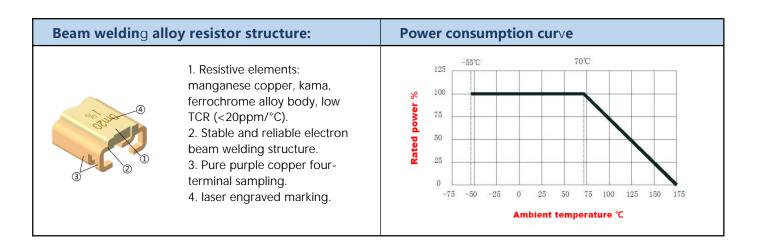




Wuhan FlowGreen Electronic



Recommended pads and dimensions (in mm):							
b c b I I I 2	Series number	Resistance value	a (mm)	b (mm)	c (mm)	d(mm)	e(mm)
	WHFL2726	0.2~5mΩ	7.3	2.9	2	0.8	0.9





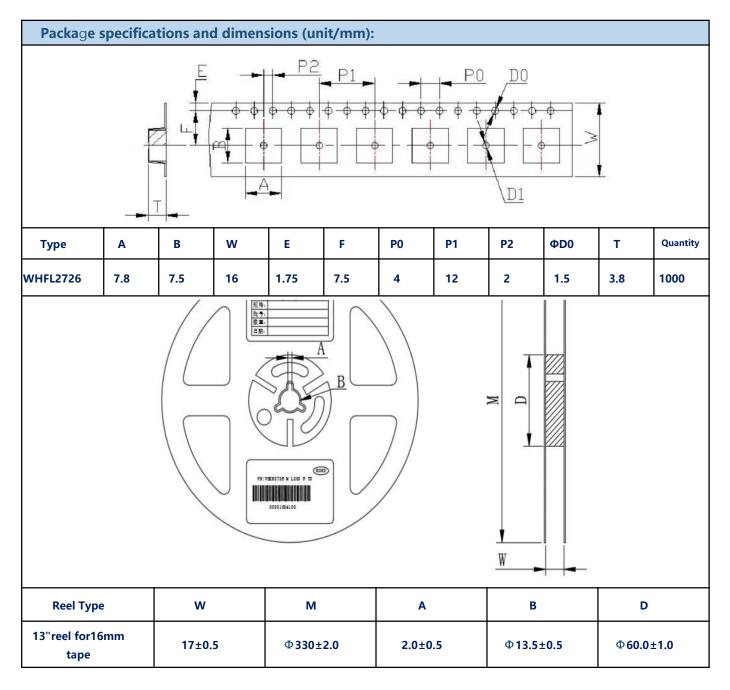
Wuhan FlowGreen Electronic

Resistan	Resistance value schedule:										
Resistance value	Material	T/mm	t/mm	TCR(ppm)	P _{70℃}	Resistance value	Material	T/mm	t/mm	TCR(ppm)	P _{70℃}
0.2mΩ	М	1.3±0.1	0.6±0.1	±75	12	3mΩ	F	0.36±0.1	0.4±0.1	±25	5
0.3mΩ	М	1.2±0.1	0.6±0.1	±75	11	4mΩ	F	0.28±0.1	0.4±0.1	±25	4
0.5mΩ	М	0.68±0.1	0.68±0.1	±75	9	5mΩ	F	0.28±0.1	0.4±0.1	±25	3
0.7mΩ	М	0.48±0.1	0.48±0.1	±75	7	2mΩ	К	0.52±0.1	0.52±0.1	±50	6
1mΩ	М	0.35±0.1	0.4±0.1	±75	6	3mΩ	К	0.35±0.1	0.4±0.1	±50	5
2mΩ	F	0.55±0.1	0.55±0.1	±25	6	4mΩ	К	0.26±0.1	0.4±0.1	±50	4

Note: Iron chrome aluminum material is magnetic, which affects the frequency conversion current, please be careful in product selection.

Performance index						
Item	Standards	Test method				
Temperature coefficient	Within specified values	IEC60115-1bis 4.8, measurement points -55°C and +125°C, reference point +20°C				
Solderability	No visible damage, solderable area 95%Minimum	IEC60115-1bis 4.17, tin bath at 245°C, hold for 3 seconds				
Short time overload	No visible damage ^R±0.5%Minimum	IEC60115-1bis 4.13, 2.5 times rated voltage, hold for 5 seconds				
Resistance to soldering heat	No visible damage △R±0.5%Minimum	IEC60115-1, 4.18, 270°C tin bath, hold 10 seconds				
High temperature and humidity	No visible damage AR±1%Minimum	AEC-Q200Test7/MIL-STD-202method103 Apply 10% of rated power (current) or component limit current (whichever is less) for 1000 hours at 85°C and 85% humidity.				
High temperature storage	No visible damage A R ± 0.5%Maximum	IEC60115-1bis 4.25.3, 1000 hours @ 170°C without loading				
Low temperature loading	No visible damage A R ± 0.5%Maximum	IEC60115-1 no. 4.36, -55°C, one hour without load, 45 minutes at rated voltage load, 15 minutes without load.				
Temperature cycling	No visible damage A R ± 0.5%Maximum	IEC60115-1bis 4.19, -55°C @ 30 minutes ~ room temperature @ < 5 minutes ~ +155°C @ 30 minutes; 500 cycles.				
Load life	No visible damage ^R±1%Maximum	4.25.1 of IEC60115-1, 1000 hours, 70°C±2°C, rated current or component limit current (whichever is smaller) 1.5 hours on / 0.5 hours off.				

Wuhan FlowGreen Electronic



Disclaimer

All products, product specifications and data are subject to change without notice. Product specifications are not expanded or otherwise modified, and WHFL makes no representations or warranties other than those contained in its terms and conditions of sale. Information provided in datasheets or specifications may differ from actual results in different applications. Any statements made by WHFL as to the suitability of a product for certain types of applications are based on its knowledge of the typical requirements normally imposed on its products. It is the customer 's responsibility to verify that a particular product with the attributes described in the product specification is suitable for the intended application. No license, express or implied, or otherwise, to any intellectual property rights is granted herein. Any and all liability arising from the application or use of any product shall be in accordance with WHFL's Terms and Conditions of Sale.