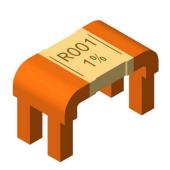


PRECISION SHUNT RESISTOR

SHoKB....series

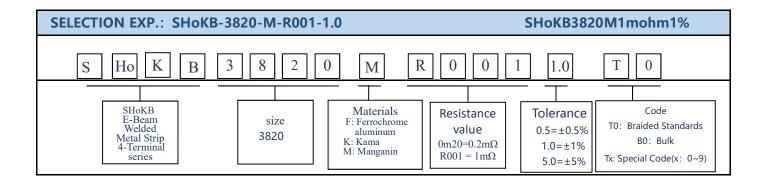
4-Terminal Package ,E-Beam Welded Alloy resistor, DIP, Excellent long-term stability, AEC-Q200 Testing Qualified



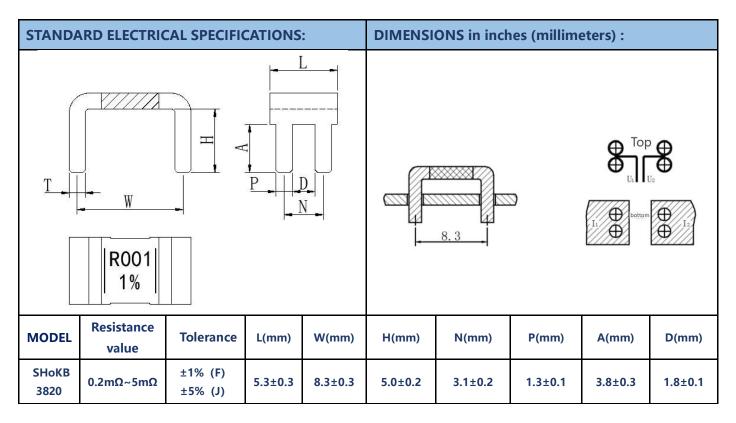
FEATURES:

- E-beam welded alloy resistors, with 4-terminals, pure copper electrodes - the perfect solution for current sensing applications.
- Excellent reliability and stability, Anti-pulse capability,
 0.5% tolerance of R value.
- Special welding process, whole metal construction,.
- Low resistance (to 0.2mOhm). Surface treatment for moisture resistance.
- Very low parasitic inductance less than 3nH. for higher Hz current sensing.
- AEC-Q200 qualified.
- RoHS compliant.

Electrical characteristics:					
Resistance value mOhm	0.2~5 mOhm				
TOLERANCE %	±0.5%(D), ±1%(F), ±5%(J)				
TEMPERATURE COEFFICIENT ppm	Min.±25 ppm				
TEMPERATURE RANGE °C	-55°C +175°C				
INDUCTOR nH	<3				
Thermal EMF (0-100°C) μV/K	<1				
Rated power P70°C W	Max. 12W				



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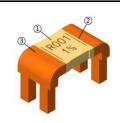


Resistanc	Resistance Value Table:								
Resistance value	Mater ials	T/mm	TCR(ppm)	P _{70℃}	Resistance value	Materi als	T/mm	TCR(ppm)	P _{70°C}
0.2mΩ	M	1.7±0.1	±175	12	2mΩ	F	0.62±0.1	±25	6
0.3mΩ	M	1.28±0.1	±150	10	3mΩ	F	0.42±0.1	±25	5
0.4mΩ	M	1.0±0.1	±100	9	4mΩ	F	0.35±0.1	±25	4
0.5mΩ	М	0.8±0.1	±100	9	5mΩ	F	0.28±0.1	±25	3
0.7mΩ	M	0.55±0.1	±100	8	1mΩ	K	1.16±0.1	±75	8
0.8mΩ	M	0.48±0.1	±100	8	2mΩ	K	0.65±0.1	±75	6
1mΩ	M	0.4±0.1	±100	7	3mΩ	K	0.43±0.1	±75	5
1mΩ	F	1.25±0.1	±25	8	4mΩ	К	0.32±0.1	±75	4
1.5mΩ	F	0.94±0.1	±25	7	5mΩ	К	0.28±0.1	±75	3

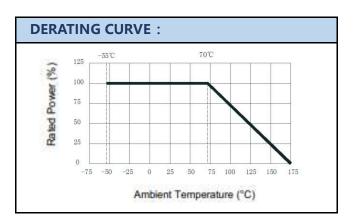
Note: Ferrochrome aluminum material with an effect on the frequency conversion current, so please be careful in product selection.

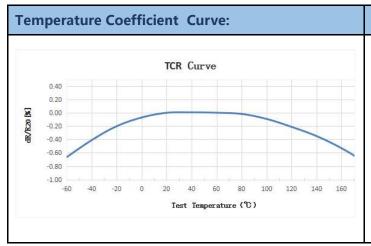
SHoKB....series

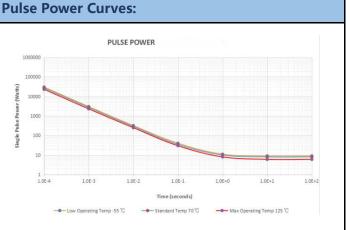
MATERIAL SPECIFICATIONS:



- Resistor material: low temperature bleached manganese copper, ferrochrome aluminum, kama.
- 2. Electron beam welding structure.
- 3. Purple copper terminals.







PERFORMANCE INDEX :					
ITEMS	STANDARD	TEST METHOD			
TCR	Within the specified value	IEC60115-1-4.8, Measuring points -55°C and +130°C, reference point +20°C			
weldability	No visible damage, weldable area 95% Minimum	IEC60115-14.17, 245°C Tin slot, hold for 3 sec			
Short-time overload	No visible damage, △R±0.5% Maximum	IEC60115-14.13, 5 times rated Wattage, 5 sec			
Resistance to solder heat	No visible damage, △R±0.5% Maximum	IEC60115-14.18, 270°C tin bath, hold for 10 sec			
High temperature and humidity	No visible damage, △R±1.0% Maximum	AEC-Q200 Test 7/MIL-STD-202 method 103 temperature 85 °C, humidity 85% of the conditions applied 10% of the rated power (current) or component limit current (whichever is less), for 1000 hours.			
High temperature storage	No visible damage, △R±1.0% Maximum	IEC60115-14.25.3,1000 hour @125°C,Without load			
Low temperature load	No visible damage, △R±0.5% Maximum	IEC60115-14.36, -55°C,No load for one hour, rated voltage load for 45 min, no load for 15 min			
Temperature cycling	No visible damage, △R±0.5% Maximum	IEC60115-14.19, -55°C@30 min ~ room temperature @ <5 min ~ +155°C @ 30 min; 500 cycles			
Load life	No visible damage, ^R±1.0% Maximum	IEC 60115-1, 4.25.1, 1000 hours, 70° C ± 2°C, rated current or component limit current (whichever is less) 1.5 hours on / 0.5 hours off.			

SHoKB....series

Packaging Requirements:

Packaging method:

1. Bulk Packing: bag, carton packing.

Storage conditions:

2. The packaged shunt should be stored in the room with ambient temperature: 25°C±5°C, relative humidity: <75%, no corrosive gas and well ventilated.

Environmental protection requirements:

3. comply with the requirements of ROHS 2.0 (2015/865/EU) directive, prohibit the use of controlled environmentally managed substances.

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