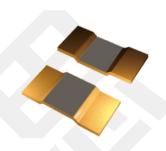


Precision Trimming-free Alloy Current Sensor

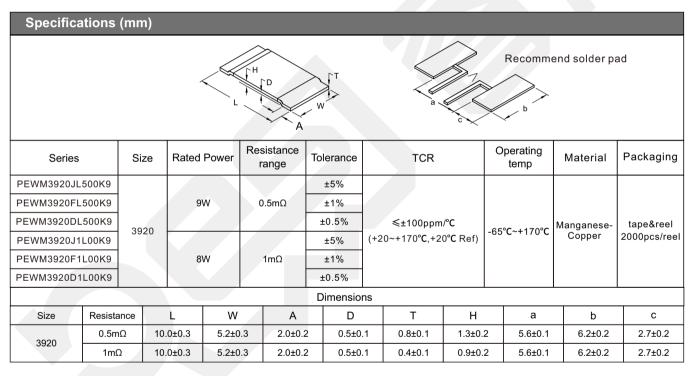
TCR ≤±100ppm/°C (+20~+170°C, +20°Cref), tightest tolerance ±0.5% No trimming&Non-hot-spot design, Low EMF AEC-Q200 qualified

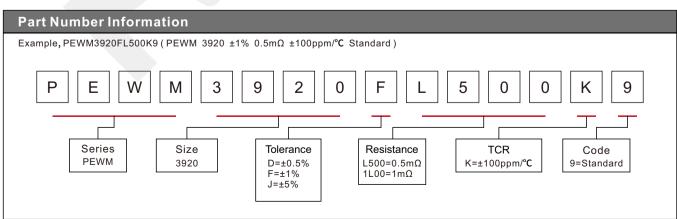
Introduction

This series is made from a precision Manganin alloy and which is then precisely machined and welded using exclusive EB-Welding equipment designed and manufactured independently by C&B Group. The combination of excellent consistency of metal alloy, the precision machining capability and the efficient welding process allow the product to achieve a tight tolerance up to ±0.5% without trimming. The "Trimming Free" technology avoids the loss of rated current and the hot-spot due to notches in the trimming process, which greatly increases the reliability of the product. At the same time, the improved welding quality ensures very low EMF and high stability of the product. From the raw material to equipment and core process, whole process is strictly controlled inside of the house to make sure stable quality and timely delivery.



This series is ideal for high current sensing circuits which ask for high precision at the same time. Visit www.resistor.today to learn more.

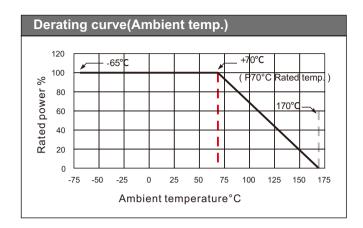


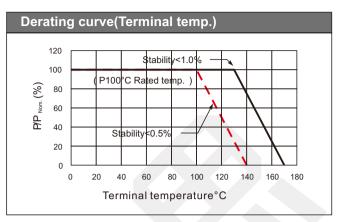


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Precision Trimming-free Alloy Current Sensor





| Performance | | | | |
|------------------------------|--|------------------------|------------------------------------|---------|
| Test Item | Test Method | Standard | Typical | Maximum |
| Short-time overload | 5x rated power for 5s,measured 24±2h after test | MIL-STD-202 Method 201 | ±0.1% | ±0.5% |
| Thermal shock | -55°C~+125°C,1000 cycles,measured 24±2h after test | JESD22 Method JA-104 | ±0.1% | ±0.5% |
| Moisture resistance | T=24h/cycle,no load,7a and 7b not required,measured 24±2h after test | MIL-STD-202 Method 106 | ±0.2% | ±0.5% |
| Load life | +70°C,2000h,rated power,measured 24±2h after test | MIL-STD-202 Method 108 | ±0.5% | ±1.0% |
| Resistance to soldering heat | +260,±5°C,10s±1s,measured 24±2h after test | MIL-STD-202 Method 210 | ±0.2% | ±0.5% |
| High temp. & high humidity | +85°C,85%RH,10% of rated power,1000h,measured 24±2h after test | MIL-STD-202 Method 103 | ±0.2% | ±0.5% |
| Low temp. storage | -65°C for 96h,measured 24±2h after test | IEC 60068-2-1 | ±0.1% | ±0.5% |
| Vibration | Frequency varied 10Hz to 2000Hz in 20 minutes,acceleration 5g X-Y-Z direction°C12 cycles | MIL-STD-202 Method 204 | ±0.05% | ±0.2% |
| Mechanical shock | 100g,6ms,half-sine shock wave,3 times/direction,18 times measured 24±2h after test | MIL-STD-202 Method 107 | ±0.05% | ±0.2% |
| Resistance to solvent | Immerse in solvent for 3 min and then wipe 10 times 3 cycles of 3 solvents, clean and dry at ambient temperature | MIL-STD-202 Method 215 | Clear marking No visible damage | |
| Solderability | +235°C±5°C,2s±0.5s | J-STD-202 | 95% coverd | |
| TCR | -55°C and +170°C,+20°C ref. | IEC 60115-1 4.8 | Within the nominal value range | |
| Substrate bending | 2mm,for 60s | AEC-Q200-005 | ±0.01% | ±0.1% |
| Terminal strength | Force 17.7N,hold for 60s | AEC-Q200-006 | ±0.01% | ±0.1% |
| Low temp. operation | -55°C,no load for 1h,rated voltage load for 45 min,no load for 15 min | IEC 60115-1 4.36 | ±0.2% | ±0.5% |

