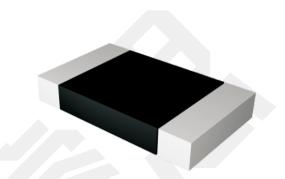


## TCR ≤±15ppm/°C (-55~125°C,+20°C Ref), Tightest tolerance ±0.1% Excellent long-term stability Low thermal EMF AEC-Q200 qualified

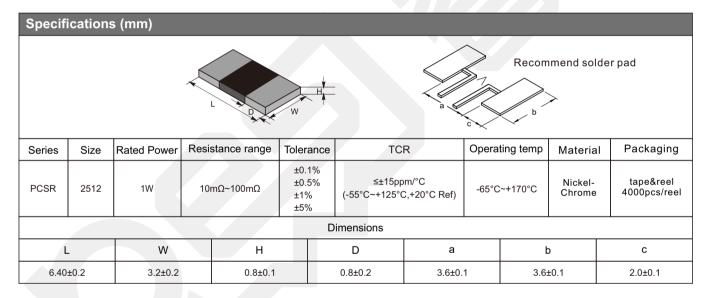
## Introduction

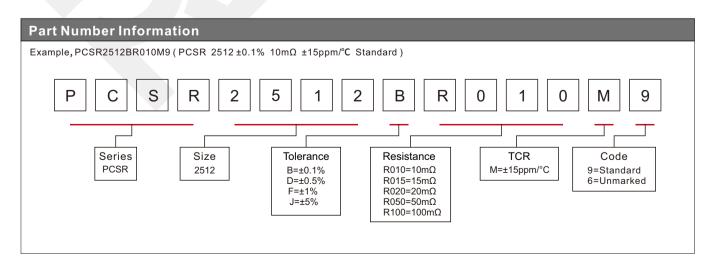
This series is made from a precision Nickel-Chrome alloy and which is then precisely machined and welded using exclusive EB-Welding equipment designed and manufactured independently by C&B Group. PCSR series is molded version which can achieve ultra-low TCR within  $\pm 15~{\rm ppm/^\circ C}$  and high tolerance up to  $\pm 0.1\%$ . With an operating temperature range of -65°C to +170°C, the series is ideal for current sensing circuits which ask for high precision and low TCR at the same time. Visit www.resistor.today to check stock and more information.



## Application

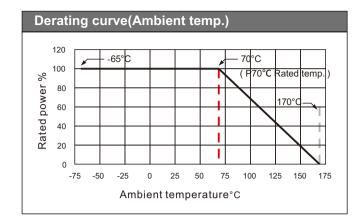
- Precision Instrument
- Semiconductor ATE
- · Battery test equipment
- Precision power supply

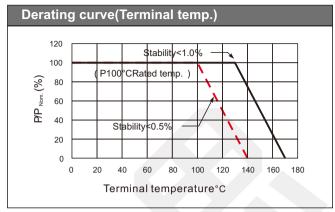




## **Molded Precision Current Sensing Resistor**







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%	±0.3%
High temp. storage	+170°C,1000h,no load,measured 24±2h after test	MIL-STD-202 Method 108	±0.2%	±0.5%
Moisture resistance	T=24h/cycle,no load,7a and 7b not required,measured 24±2h after test	MIL-STD-202 Method 106	±0.02%	±0.05%
Load life	+70°C,2000h,rated power,measured 24±2h after test	MIL-STD-202 Method 108	±0.2%	±0.5%
Resistance to soldering heat	+260°C±5°C,10s±1s,measured 24±2h after test	MIL-STD-202 Method 210	±0.05%	±0.3%
Thermal shock	-55°C~+125°C,1000 cycles,measured 24±2h after test	JESD22 Method JA-104	±0.1%	±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	±0.05%	±0.3%
Solderability	+235°C±5°C,2s±0.5s	J-STD-202	95% coverd	

Popular Part Number							
Part Number	Size	Tolerance	Resistance	TCR			
PCSR2512JR010M9	2512	±5%	10mΩ	±15ppm/°C			
PCSR2512JR015M9	2512	±5%	15mΩ	±15ppm/°C			
PCSR2512JR020M9	2512	±5%	20mΩ	±15ppm/°C			
PCSR2512JR050M9	2512	±5%	50mΩ	±15ppm/°C			
PCSR2512JR100M9	2512	±5%	100mΩ	±15ppm/°C			
PCSR2512FR010M9	2512	±1%	10mΩ	±15ppm/°C			
PCSR2512FR015M9	2512	±1%	15mΩ	±15ppm/°C			
PCSR2512FR020M9	2512	±1%	20mΩ	±15ppm/°C			
PCSR2512FR050M9	2512	±1%	50mΩ	±15ppm/°C			
PCSR2512FR100M9	2512	±1%	100mΩ	±15ppm/°C			
PCSR2512DR010M9	2512	±0.5%	10mΩ	±15ppm/°C			
PCSR2512DR015M9	2512	±0.5%	15mΩ	±15ppm/°C			
PCSR2512DR020M9	2512	±0.5%	20mΩ	±15ppm/°C			
PCSR2512DR050M9	2512	±0.5%	50mΩ	±15ppm/°C			
PCSR2512DR100M9	2512	±0.5%	100mΩ	±15ppm/°C			
PCSR2512BR010M9	2512	±0.1%	10mΩ	±15ppm/°C			
PCSR2512BR015M9	2512	±0.1%	15mΩ	±15ppm/°C			
PCSR2512BR020M9	2512	±0.1%	20mΩ	±15ppm/°C			
PCSR2512BR050M9	2512	±0.1%	50mΩ	±15ppm/°C			
PCSR2512BR100M9	2512	±0.1%	100mΩ	±15ppm/°C			