

Product characteristics

- PT100-2W series thin film platinum resistors have the advantages of small size, high precision and good long-term stability.
- It has the characteristics of anti-vibration and anti-shock.
- The product can be subdivided into regular ultra low and high temperature series, covering the temperature range of -200 to 650 .
- It can be used in many connection ways, such as resistance welding, argon arc welding, pressure welding, brazing and so on.
- Widely used in automotive, instrumentation, household appliances, new energy and other fields.

General features

Performance parameters	Description				
Type of components	Thin film platinum resistance				
Component size	2.0mm×2.3mm×1.1mm 1.6mm×2.3mm×1.1mm 1.2mm×5.0mm×1.1mm				
Lead specifications	Length:10mmm;diameter:0.2mm				
Lead material	Platinum nickel ; Silver target ; Pure Platinum ; Sterling silver ;				
Lead tension	≥9N				
Insulation impedance	>100M Ω at20°C > 2M Ω at500°C				
TCR	3850ppm/°C				
Working current	0.3~1mA				
Long-term stability	After 1000 hours at 500 , the resistance shift of R(0) is less than 0.04%				
Response time	water v=0.4m/s current	τ0.5=0.05s τ0.9=0.15s			
	air current v=2m/s	τ0.5=3s τ0.9=10s			
Self-heating coefficient	0°C 0.4°C/mW				
Anti-vibration	Frequency acceleration 40g from 10 to 2000Hz				
Impact resistant	8ms half sine wave acceleration 100g				
Package	Vacuum plastic packaging				
Customizable	Substrate size, base resistance, lead specifications, can be provided on request				

Type temperature criteria	Range of application	Classes	R ₀ (Ω)	Temperature range	Deviation
Pt 100-2W	-70~ + 500°C	1/3B	100±0.04	0 ~ + 150°C	±(0.1+0.0017 T)
		А	100±0.06	-50~+300°C	±(0.15+0.002 T)
		В	100±0.12	-70 ~ + 500°C	±(0.3+0.005 T)
		2B	100±0.24	-70 ~ + 500°C	±(0.6+0.01 T)
Pt 100-2W -H650	-50~ + 650°C	В	100±0.12	-50~+650°C	±(0.3+0.005 T)
		2B	100±0.24	-50 ~ + 650°C	$\pm(0.6+0.01 T)$
Pt 100-2W -L200	-200~+150°C	В	100±0.12	-200~+150°C	±(0.3+0.005 T)
		2B	100+0.24	-200~+150°C	±(0.6+0.01 T)

Selection

Note * : the marked classes and temperature measurement accuracy refer to the IEC60751 standard. T is the measured temperature.