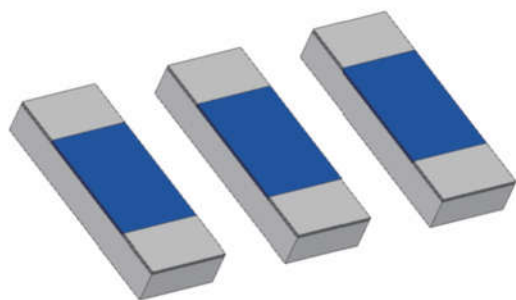
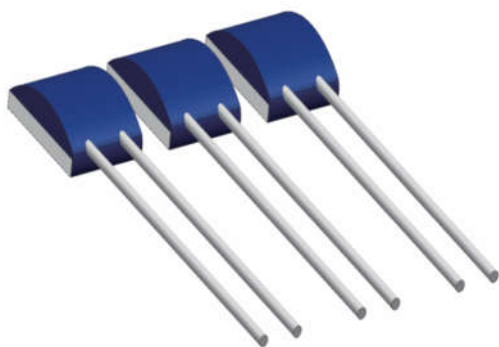


薄膜铂电阻 **Pt100** 规格书

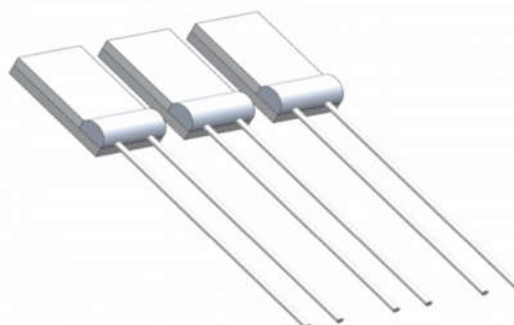
Thin-film platinum sensors Pt100 specification



薄膜铂电阻-贴片 L(低温)、M(中温)系列



薄膜铂电阻 L(低温)、M(中温)系列



薄膜铂电阻 H(高温)系列

应用领域

Application field

- ◆仪器仪表 ◆物联网 ◆医疗设备 ◆家用电器 ◆新能源 ◆航空航天等
◆instruments and meters ◆IoT ◆medical equipment ◆household appliances ◆new energy ◆aerospace etc.

特点

Characteristics

- ◆长期稳定性好 ◆测温精度高 ◆响应时间快 ◆自热效应低 ◆抗振性好 ◆支持定制
◆Good long-term stability ◆High temperature measurement accuracy ◆Fast response time
◆Low self-heating effect ◆Good vibration resistance performance ◆support customization

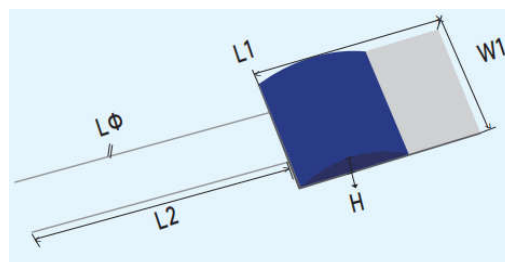
型号摘要

Model summary

系列 series	型号 Model	等级 Tolerance	温度范围 Measuring range	精度 Accuracy	引线类型 Lead type	引 线 长 度 (mm) Lead length	备注说明 Remarks
BL	Pt100 BL2312	B	-200℃~+150℃	$\Delta t \leq \pm(0.30+0.005 t)$	PtNi	7	L 低温 low temperature
		2B	-200℃~+150℃	$\Delta t \leq \pm(0.60+0.010 t)$	PtNi	7	
	Pt100 BL2016	B	-200℃~+150℃	$\Delta t \leq \pm(0.30+0.005 t)$	PtNi	7	M 中温 Medium temperature
		2B	-200℃~+150℃	$\Delta t \leq \pm(0.60+0.010 t)$	PtNi	7	
	Pt100 BL2320	B	-200℃~+150℃	$\Delta t \leq \pm(0.30+0.005 t)$	PtNi	7	HL 中高温 Medium and high temperature
		2B	-200℃~+150℃	$\Delta t \leq \pm(0.60+0.010 t)$	PtNi	7	
BM	Pt100 BM2312	AA	0℃~+150℃	$\Delta t \leq \pm(0.10+0.0017 t)$	PtNi	7	H 高温 High temperature
		A	-50℃~+300℃	$\Delta t \leq \pm(0.15+0.002 t)$	PtNi	7	
		B	-70℃~+500℃	$\Delta t \leq \pm(0.30+0.005 t)$	PtNi	7	S 电阻电极镀焊锡 Tin-plating welding of resistance electrodes
		2B	-70℃~+500℃	$\Delta t \leq \pm(0.60+0.010 t)$	PtNi	7	
	Pt100 BM2016	AA	0℃~+150℃	$\Delta t \leq \pm(0.10+0.0017 t)$	PtNi	7	Ag 电阻电极为银 Resistance electrodes are mad of silver.
		A	-50℃~+300℃	$\Delta t \leq \pm(0.15+0.002 t)$	PtNi	7	
		B	-70℃~+500℃	$\Delta t \leq \pm(0.30+0.005 t)$	PtNi	7	
		2B	-70℃~+500℃	$\Delta t \leq \pm(0.60+0.010 t)$	PtNi	7	
	Pt100 BM2320	AA	0℃~+150℃	$\Delta t \leq \pm(0.10+0.0017 t)$	PtNi	10	
					PtNi	7	
		A	-50℃~+300℃	$\Delta t \leq \pm(0.15+0.002 t)$	PtNi	10	
					PtNi	7	
		B	-70℃~+500℃	$\Delta t \leq \pm(0.30+0.005 t)$	PtNi	10	
					PtNi	7	
		2B	-70℃~+500℃	$\Delta t \leq \pm(0.60+0.010 t)$	PtNi	10	
					PtNi	7	
BHL	Pt100 BHL2320	AA	0℃~+200℃	$\Delta t \leq \pm(0.10+0.0017 t)$	Pt	5	
		A	-50℃~+700℃	$\Delta t \leq \pm(0.15+0.002 t)$	Pt	5	
		B	-70℃~+750℃	$\Delta t \leq \pm(0.30+0.005 t)$	Pt	5	
		2B	-70℃~+750℃	$\Delta t \leq \pm(0.60+0.010 t)$	Pt	5	
BH	Pt100 BH4121	B	-70℃~+900℃	$\Delta t \leq \pm(0.30+0.005 t)$	Pt	5	
		2B	-70℃~+900℃	$\Delta t \leq \pm(0.60+0.010 t)$	Pt	5	

Pt100 BL低温系列(Low temperature)- BL2312/BL2016/BL2320

温度范围 temperature range:-200℃~+150℃



型号 Model	元件尺寸及公差 (mm) Dimensions and tolerance	引线规格和公差 Lead specification and tolerance
Pt100 BL2312	$L1 \times W1 \times H = (2.3 \pm 0.2) \text{mm} \times (1.2 \pm 0.2) \text{mm} \times (1.0 \pm 0.2) \text{mm}$	$L\Phi \times L2 = (0.15 \pm 0.02) \text{mm} \times (7 \pm 1) \text{mm}$
Pt100 BL2016	$L1 \times W1 \times H = (2.0 \pm 0.2) \text{mm} \times (1.6 \pm 0.2) \text{mm} \times (0.9 \pm 0.2) \text{mm}$	$L\Phi \times L2 = (0.2 \pm 0.02) \text{mm} \times (7 \pm 1) \text{mm}$
Pt100 BL2320	$L1 \times W1 \times H = (2.3 \pm 0.2) \text{mm} \times (2.0 \pm 0.2) \text{mm} \times (1.0 \pm 0.2) \text{mm}$	$L\Phi \times L2 = (0.2 \pm 0.02) \text{mm} \times (7 \pm 1) \text{mm}$

技术参数

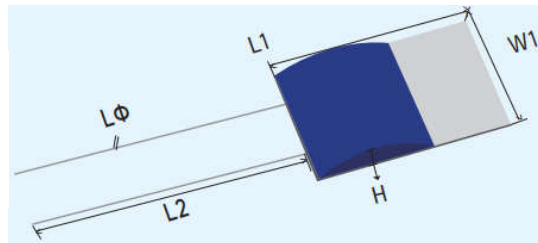
Technical data

标称电阻 Normal resistance	100Ω	温度系数 Temperature coefficient	3851ppm/°C
引线拉力 Lead tensile force	≥9N	引线材质 Lead material	铂镍复合丝材 platinum nickel composite wire
长期稳定性 Long term stability	-50 度恒温 100 时, R0 电阻值变化小于 0.05% the change in R0 resistance value is less than 0.05% at a constant temperature of -50 degrees for 100hours.		
热响应时间 Thermal response time	水流 in the water (v=0.4m/s) $\tau_{0.5} \leq 0.07\text{s}$ $\tau_{0.632} \leq 0.1\text{s}$ 气流 in the air (v=2m/s) $\tau_{0.5} \leq 2.5\text{s}$ $\tau_{0.632} \leq 4\text{s}$		
推荐工作电流 Recommended working current	≤1mA	抗震性 Vibration resistance	40g
绝缘电阻 Insulation resistance	室温 room temperature ≥100MΩ	包装 packing	塑料真空包装 (按要求提供其他包装形式) Plastic vacuum packing (other packings on request)

Pt100 BM中温系列(Medium temperature)-BM2312/BM2016/BM2320

温度范围 temperature range: -70℃~+500℃

(短期 short period 550℃)



型号 Model	元件尺寸及公差 (mm) Dimensions and tolerance	引线规格和公差 Lead specification and tolerance
Pt100 BM2312	$L1 \times W1 \times H = (2.3 \pm 0.2) \text{ mm} \times (1.2 \pm 0.2) \text{ mm} \times (1.0 \pm 0.2) \text{ mm}$	$L\Phi \times L2 = (0.15 \pm 0.02) \text{ mm} \times (7 \pm 1) \text{ mm}$
Pt100 BM2016	$L1 \times W1 \times H = (2.0 \pm 0.2) \text{ mm} \times (1.6 \pm 0.2) \text{ mm} \times (0.9 \pm 0.2) \text{ mm}$	$L\Phi \times L2 = (0.2 \pm 0.02) \text{ mm} \times (7 \pm 1) \text{ mm}$
Pt100 BM2320	$L1 \times W1 \times H = (2.3 \pm 0.2) \text{ mm} \times (2.0 \pm 0.2) \text{ mm} \times (1.0 \pm 0.2) \text{ mm}$	$L\Phi \times L2 = (0.2 \pm 0.02) \text{ mm} \times (7 \pm 1) \text{ mm}$ or $(0.2 \pm 0.02) \text{ mm} \times (10 \pm 1) \text{ mm}$

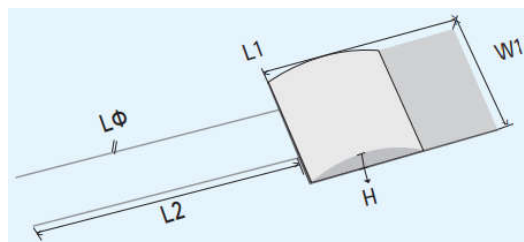
技术参数

Technical data

标称电阻 Normal resistance	100Ω	温度系数 Temperature coefficient	3851ppm/℃
引线拉力 Lead tensile force	≥9N	引线材质 Lead material	铂镍复合丝材 platinum nickel composite wire
长期稳定性 Long term stability	500 度恒温 1000 时, R0 电阻值变化小于 0.05% the change in R0 resistance value is less than 0.05% at a constant temperature of 500 degrees for 1000hours.		
热响应时间 Thermal response time	水流 in the water (v=0.4m/s) τ0.5≤0.07s τ0.632≤0.1s 气流 in the air (v=2m/s) τ0.5≤2.5s τ0.632≤4s		
推荐工作电流 Recommended working current	≤1mA	抗震性 Vibration resistance	40g
绝缘电阻 Insulation resistance	室温 room temperature ≥100MΩ 500℃ >2 MΩ	包装 packing	塑料真空包装 (按要求提供其他包装形式) Plastic vacuum packing (other packings on request)

Pt100 BHL中高温系列(Medium high temperature)-BHL2320

温度范围 temperature range: -70℃~+750℃



型号 Model	元件尺寸及公差 (mm) Dimensions and tolerance	引线规格和公差 Lead specification and tolerance
Pt100 BL2320	$L1 \times W1 \times H = (2.3 \pm 0.2) \text{mm} \times (2.0 \pm 0.2) \text{mm} \times (1.0 \pm 0.2) \text{mm}$	$L\Phi \times L2 = (0.25 \pm 0.02) \text{mm} \times (5 \pm 0.2) \text{mm}$

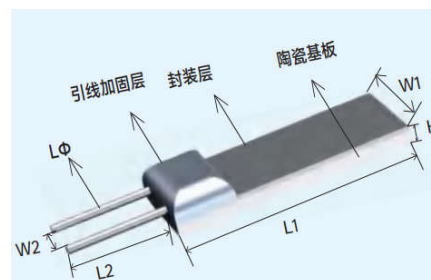
技术参数

Technical data

标称电阻 Normal resistance	100Ω	温度系数 Temperature coefficient	3851ppm/℃
引线拉力 Lead tensile force	≥9N	引线材质 Lead material	铂丝材 platinum wire
长期稳定性 Long term stability	700 度恒温 1000 时, R0 电阻值变化小于 0.05% the change in R0 resistance value is less than 0.05% at a constant temperature of 700 degrees for 1000hours.		
热响应时间 Thermal response time	水流 in the water (v=0.4m/s) $\tau_{0.5} \leq 0.07\text{s}$ $\tau_{0.632} \leq 0.1\text{s}$ 气流 in the air (v=2m/s) $\tau_{0.5} \leq 2.5\text{s}$ $\tau_{0.632} \leq 4\text{s}$		
推荐工作电流 Recommended working current	≤1mA	抗震性 Vibration resistance	40g
绝缘电阻 Insulation resistance	室温 room temperature $\geq 100\text{M}\Omega$ 750℃ $> 2\text{M}\Omega$	包装 packing	塑料真空包装 (按要求提供其他包装形式) Plastic vacuum packing (other packings on request)

Pt100 BH高温系列(High temperature) -BH4121

温度范围 temperature range: -70℃~+900℃



型号 Model	元件尺寸及公差 (mm) Dimensions and tolerance	引线规格和公差 Lead specification and tolerance
Pt100 BH4121	$L1 \times W1 \times H = (4.1 \pm 0.2) \text{ mm} \times (2.1 \pm 0.2) \text{ mm} \times (1.0 \pm 0.2) \text{ mm}$	$L\Phi \times L2 = (0.25 \pm 0.02) \text{ mm} \times (5 \pm 1) \text{ mm}$

技术参数

Technical data

标称电阻 Normal resistance	100Ω	温度系数 Temperature coefficient	3851ppm/℃
引线拉力 Lead tensile force	≥9N	引线材质 Lead material	铂丝材 platinum wire
长期稳定性 Long term stability	850 度恒温 1000 时, R0 电阻值变化小于 0.05% the change in R0 resistance value is less than 0.05% at a constant temperature of 850 degrees for 1000hours.		
推荐工作电流 Recommended working current	≤1mA	抗震性 Vibration resistance	40g
绝缘电阻 Insulation resistance	室温 room temperature ≥100MΩ 850℃ > 1 MΩ	包装 packing	塑料真空包装 (按要求提供其他包装形式) Plastic vacuum packing (other packings on request)