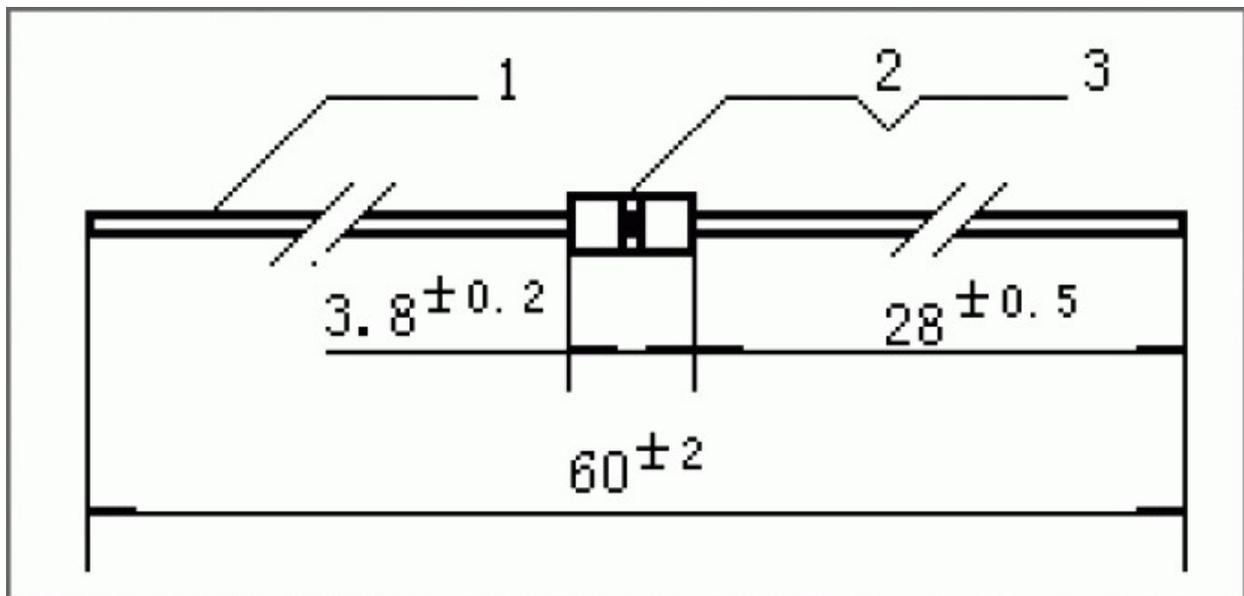


Electrical parameters Of The PTC Thermistor Temperature Sensor

No.	Parameter	Symbol	Test Condition	Min.	Nor.	Max.	Unit
1	Resistance value at 25°C	R25	constant temperature 25±0.05°C	See below table			Ω
2	Dissipation factor	δ	In still air	1.5	/	/	mW/°C
3	Thermal time constant	τ	In still air	/	/	7	s
4	Insulation resistance	/	DC=100V	100	/	/	MΩ
5	Max. Work Current	I _{max}	/	/	/	8	mA
6	Rated Current	I _N	/	/	2	/	mA
7	Rated Power	P _{max}	/	/	/	50	mW
8	Operating temperature	T _A	-40~+175°C				
9	Storage time	T _{min}	2 years (room temperature, relative humidity <60%)				

Dimension Of The PTC Thermistor Temperature Sensor



No.	Name	Spec
1	Dumes	Ferronickel Alloy
2	Chip	Silicon Chip
3	Glass Shell	OD Φ 2.0mmmax ID Φ 0.8 \pm 0.05mm

Silicone PTC Thermistor Cross Reference

Part Number	Resistance (Ω)	Tolerance (%)	Nominal Resistance (Ω)	Operating Temperature	Corresponding to market generic models
LPTC83-110	R25=1000	\pm 1%	R25=990-1010	-55 $^{\circ}$ C \sim 175 $^{\circ}$ C	KTY83-1K Ω series
LPTC83-120	R25=1000	\pm 2%	R25=980-1020		
LPTC83-121	R25=1000	-2%	R25=980-1000		
LPTC83-122	R25=1000	+2%	R25=1000-1020		
LPTC83-150	R25=1000	\pm 5%	R25=950-1050		
LPTC83-151	R25=1000	-5%	R25=950-1050		
LPTC83-152	R25=1000	+5%	R25=1000-1050		
LPTC81-110	R25=1000	\pm 1%	R25=990-1010	-55 $^{\circ}$ C \sim +150 $^{\circ}$ C	KTY81-1K Ω series
LPTC81-120	R25=1000	\pm 2%	R25=980-1020		

LPTC81-121	R25=1000	-2%	R25=980-1000				
LPTC81-122	R25=1000	+2%	R25=1000-1020				
LPTC81-150	R25=1000	±5%	R25=950-1050				
LPTC81-151	R25=1000	-5%	R25=950-1050				
LPTC81-152	R25=1000	+5%	R25=1000-1050				
LPTC81-210	R25=2000	±1%	R25=1980-2020	-55°C ~ +150°C	KTY81-2KΩ series KTY10-5KTY10-6 KTY10-62KTY10-7series		
LPTC81-220	R25=2000	±2%	R25=1960-2040				
LPTC81-221	R25=2000	-2%	R25=1960-2000				
LPTC81-222	R25=2000	+2	R25=2000-2040				
LPTC81-250	R25=2000	±5%	R25=1900-2100				
LPTC81-251	R25=2000	-5%	R25=1900-2000				
LPTC81-252	R25=2000	+5%	R25=2000-2100				
LPTC84-130	R100=1000	±3%	R25=575-595			-40°C ~ +180°C	KTY84 series
LPTC84-150	R100=1000	±5%	R25=565-613				

LPTC84-151	R100=1000	-5%	R25=565-575		
LPTC84-152	R100=1000	+5%	R25=595-613		
LPTC-200	R25=200	±3% ; +5%,-5%		-40°C ~ +150°C	
LPTC-500	R25=500	±3% ; +5%,-5%			
LPTC-1200	R25=1200	±3% ; +5%,-5%		-50°C ~ +125°C	
LPTC-1600	R25=1600	±3%	R25=16000±50Ω		
LPTC-3800	R25=3800	±3%			
LPTC-4050	R25=4050	±3%	R25=3920-4172		