

KTY84-1XX Silicon temperature Sensor

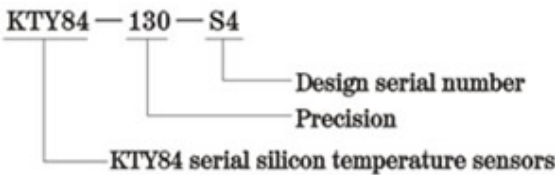


KTY84-1XX Silicon Temperature Sensor



KTY series

Examples for Ordering



1. SUMMARIZATION

KTY series silicon temperature sensor is the latest sensor in the international market at the end of the twentieth century. It can measure temperature in the range -55~800℃, such as air conditioning, oven and so on. Especially in the electric motor winding and bearing temperature measurement, there is a wide range of applications.

2. CHARACTERISTIC

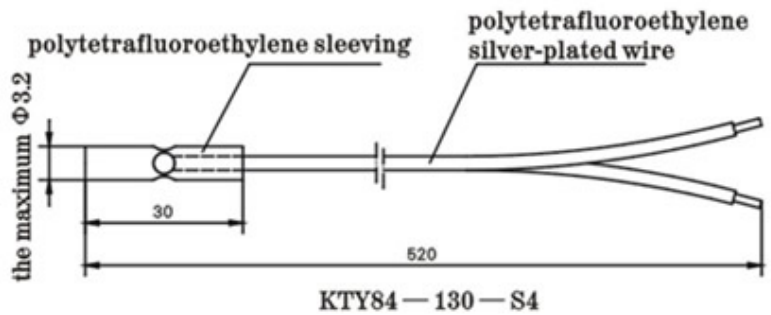
KTY series silicon temperature sensor has simple structure, stable performance, fast moving time, linear resistance-temperature curve and other such characteristics.

3. TECHNICAL PARAMETER

3.1 Insulation resistance $\geq 100M\Omega$

3.2 The material of lead wire is 0.35mm², polytetrafluoroethylene withstand high temperature wire.

3.3 Examples of typical dimensions and model.



3.4. Technical parameter

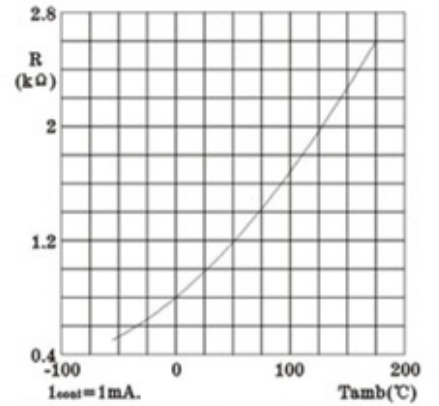
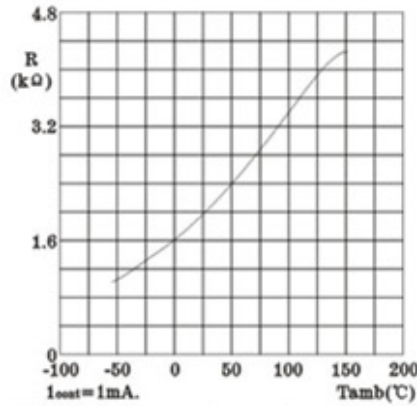
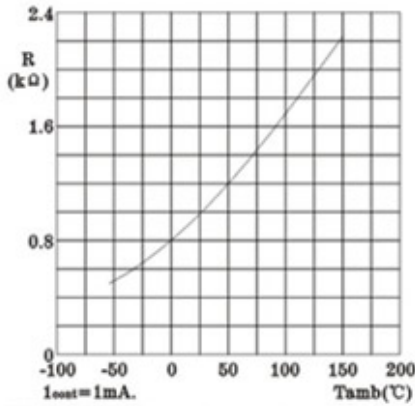
Specifications	Temperature coefficient	Heat actuation time(τ)			Operating temperature range(℃)
		In still air	In still liquid	In moving liquid	
KTY81	0.79%/K	30s	5s	3s	-55~150
KTY82	0.79%/K	7s	1s	0.5s	-55~150
KTY83	0.76%/K	20s	1s	0.5s	-55~175
KTY84	0.61%/K	20s	1s	0.5s	-40~300
KTY85	0.76%/K	20s	1s	0.5s	-40~125

3.5. KTY deviation

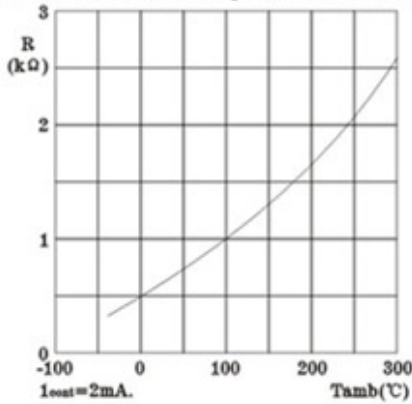
Label	Model	Condition	Min.	Median	Max.	Unit
R25	KTY81-110	Ambient temperature: 25℃ Constant current: 1mA	990	1000	1010	Ω
	KTY81-120		980	1000	1020	
	KTY81-121		980	990	1000	
	KTY81-122		1000	1010	1020	
	KTY81-150		950	1000	1050	
	KTY81-151		950	975	1000	
	KTY81-152		1000	1025	1050	
	KTY82-210		1980	2000	2020	

Label	Model	Condition	Min.	Median	Max.	Unit
R25	KTY82-220	Ambient temperature: 25°C Constant current: 1mA	1960	2000	2040	Ω
	KTY82-221		1960	1980	2000	
	KTY82-222		2000	2020	2040	
	KTY82-250		1900	2000	2100	
	KTY82-251		1900	1950	2000	
	KTY82-252		2000	2050	2100	
	KTY83-110		990	1000	1010	
	KTY83-120		980	1000	1020	
	KTY83-121		980	990	1000	
	KTY83-122		1000	1010	1020	
	KTY83-150		950	1000	1050	
KTY83-151	950	975	1000			
R100	KTY84-130	Ambient temperature: 100°C Constant current: 1mA	970	1000	1030	Ω
	KTY84-150		950	1000	1050	
	KTY84-151		950	975	1000	
	KTY84-152		1000	1025	1050	
R25	KTY85-110	Ambient temperature: 25°C Constant current: 1mA	990	1000	1010	Ω
	KTY85-120		980	1000	1020	
	KTY85-121		980	990	1000	
	KTY85-122		1000	1010	1020	
	KTY85-150		950	1000	1050	
	KTY85-151		950	975	1000	
	KTY85-152		1000	1025	1050	

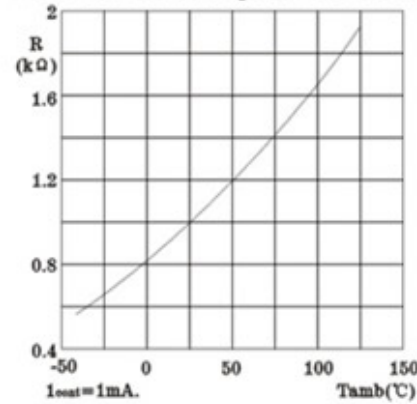
KTY Resistance-temperature curve chart



KTY81 Resistance-temperature curve chart



KTY82 Resistance-temperature curve chart



KTY83 Resistance-temperature curve chart

KTY84 Resistance-temperature curve chart

KTY85 Resistance-temperature curve chart