

KTY Silicon Temperature Sensor



KTY84-1XX Silicon Temperature Sensor



KTY series

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 $-55\sim 800^{\circ}\text{C}$, 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.

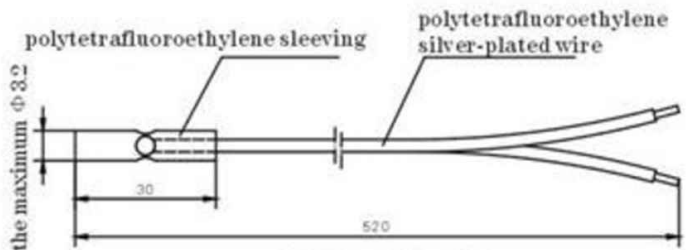
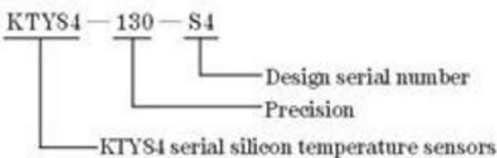
3. TECHNICAL PARAMETER

3.1 Insulation resistance $\geq 100\text{M}\Omega$

3.2 The material of lead wire is 0.35mm^2 , polytetrafluoroethylene withstand high temperature wire.

3.3 Examples of typical dimensions and model.

Examples for Ordering



3.4. Technical parameter

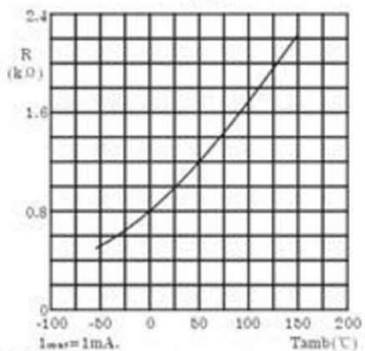
Specifications	Temperature coefficient	Heat actuation time(τ)			Operating temperature range(°C)
		In still air	In still liquid	In moving liquid	
KTYS1	0.79%/K	30s	5s	3s	-55~150
KTYS2	0.79%/K	7s	1s	0.5s	-55~150
KTYS3	0.76%/K	20s	1s	0.5s	-55~175
KTYS4	0.61%/K	20s	1s	0.5s	-40~300
KTYS5	0.76%/K	20s	1s	0.5s	-40~125

3.5. KTY deviation

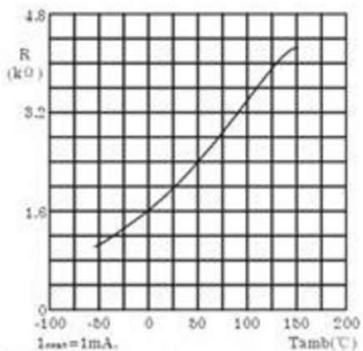
Label	Model	Condition	Min.	Median	Max.	Unit
R25	KTYS1-110	Ambient temperature: 25°C Constant current: 1mA	990	1000	1010	Ω
	KTYS1-120		980	1000	1020	
	KTYS1-121		980	990	1000	
	KTYS1-122		1000	1010	1020	
	KTYS1-150		950	1000	1050	
	KTYS1-151		950	975	1000	
	KTYS1-152		1000	1025	1050	
	KTYS2-210		1980	2000	2020	

Label	Model	Condition	Min.	Median	Max.	Unit
R25	KTYS2-220	Ambient temperature: 25°C Constant current: 1mA	1960	2000	2040	Ω
	KTYS2-221		1960	1980	2000	
	KTYS2-222		2000	2020	2040	
	KTYS2-250		1900	2000	2100	
	KTYS2-251		1900	1950	2000	
	KTYS2-252		2000	2050	2100	
	KTYS3-110		990	1000	1010	
	KTYS3-120		980	1000	1020	
	KTYS3-121		980	990	1000	
	KTYS3-122		1000	1010	1020	
	KTYS3-150		950	1000	1050	
	KTYS3-151		950	975	1000	
	R100		KTYS4-130	Ambient temperature: 100°C Constant current: 1mA	970	
KTYS4-150		950	1000		1050	
KTYS4-151		950	975		1000	
KTYS4-152		1000	1025		1050	
R25	KTYS5-110	Ambient temperature: 25°C Constant current: 1mA	990	1000	1010	Ω
	KTYS5-120		980	1000	1020	
	KTYS5-121		980	990	1000	
	KTYS5-122		1000	1010	1020	
	KTYS5-150		950	1000	1050	
	KTYS5-151		950	975	1000	
KTYS5-152	1000	1025	1050			

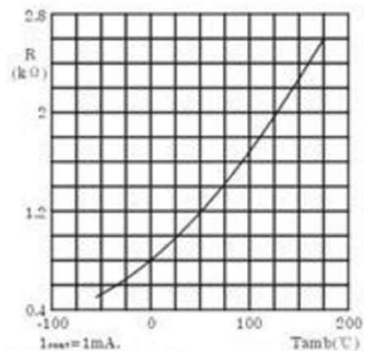
KTY Resistance-temperature curve chart



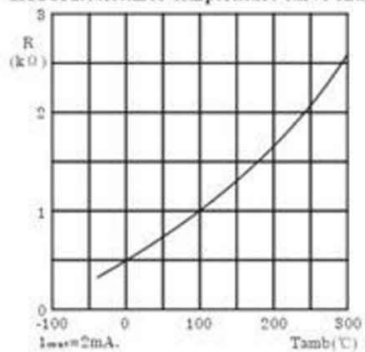
KTY1 Resistance-temperature curve chart



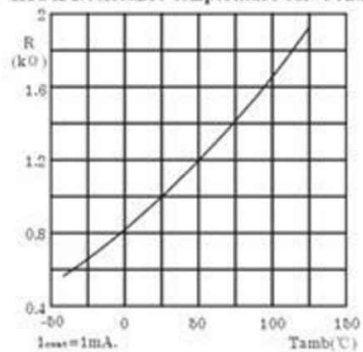
KTY2 Resistance-temperature curve chart



KTY3 Resistance-temperature curve chart



KTY4 Resistance-temperature curve chart



KTY5 Resistance-temperature curve chart