

## KTY81-210 Datasheet



### 1. Introduction to the KTY81-210

The KTY81-210 Temperature Sensor is a highly reliable, cost-effective solution for temperature measurement applications. Designed to offer precise readings across a wide range of operating temperatures, the KTY Sensor is ideal for various industrial and electronic systems. This KTY temperature sensor offers superior sensitivity, ensuring stable and accurate temperature readings, which can be alternative for Siemens, Philips's KTY81 Temperature Sensor SOD70 type

### 2. Technical Specifications of the KTY Sensor KTY81

The KTY81 series Resin Coated type provides robust performance, making it one of the most sought-after temperature sensing solutions in the market. Key specifications of the KTY81 Temperature Sensor include:

Operation Temperature Range: -40°C to 80°C.

Resistance at 25°C: 1980Ω to 2020Ω.

Temperature Coefficient: 0.79%/K at 25°C.

R25 Resistance Accuracy: Typical deviation of ±1 tolerance.

Typical Applications: Automotive, industrial, and HVAC systems etc.

For more detailed informations, please refer to the KTY81-210 product page.

#### KTY81-210 Datasheet - RT Table

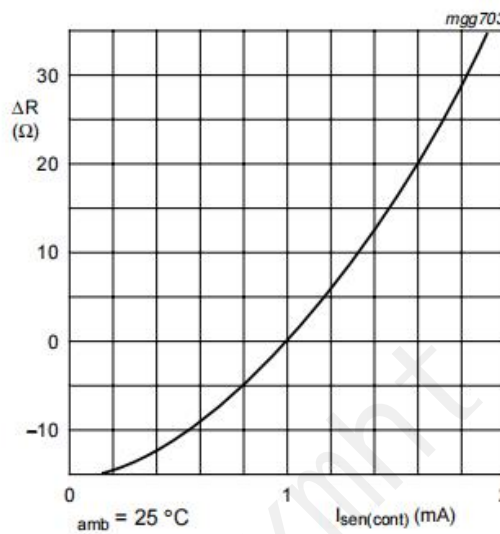
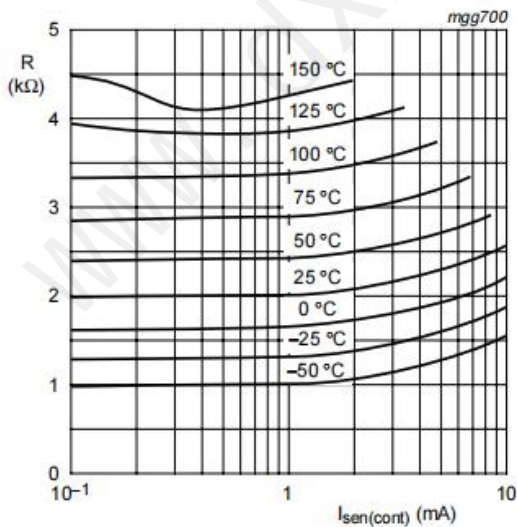
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Ambient Temperature		Temperature Coefficient	KTY81-210			
(°C)	(°F)	(%/K)	Resistance (Ω)			Temperature Deviation (K)
			Min	Typ	Max	
-55	-67	0.99	951	980	1009	±3.02
-50	-58	0.98	1000	1030	1059	±2.92
-40	-40	0.96	1105	1135	1165	±2.74
-30	-22	0.93	1218	1247	1277	±2.55
-20	-4	0.91	1338	1367	1396	±2.35
-10	14	0.88	1467	1495	1523	±2.14
0	32	0.85	1603	1630	1656	±1.91
10	50	0.83	1748	1772	1797	±1.67
20	68	0.80	1901	1922	1944	±1.41
25	77	0.79	1980	2000	2020	±1.27
30	86	0.78	2057	2080	2102	±1.39
40	104	0.75	2217	2245	2272	±1.64
50	122	0.73	2383	2417	2451	±1.91
60	140	0.71	2557	2597	2637	±2.19
70	158	0.69	2737	2785	2832	±2.49
80	176	0.67	2924	2980	3035	±2.8

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Ambient Temperature		Temperature Coefficient (%/K)	KTY81-210			
(°C)	(°F)		Resistance (Ω)			Temperature Deviation (K)
			Min	Typ	Max	
90	194	0.65	3118	3182	3246	±3.12
100	212	0.63	3318	3392	3466	±3.46
110	230	0.59	3523	3607	3691	±3.93
120	248	0.53	3722	3817	3912	±4.7
125	257	0.49	3815	3915	4016	±5.26
130	266	0.44	3901	4008	4114	±6
140	284	0.33	4049	4166	4283	±8.45
150	302	0.20	4153	4280	4407	±14.63

KTY81 Temperature Sensor RT Curve



### 3. Conclusion: Why Choose the [KTY81-210](#)?

The KTY81 Temperature Sensor is a versatile, high-performance temperature sensor, offering reliable and precise measurements in demanding environments. Its compact design and high sensitivity make it an excellent choice for industries requiring accurate temperature monitoring. For more information on how the KTY Sensor can benefit your applications, visit our detailed [product page](#).