

Silicon temperature sensors

KTY81-2

Ambient temperature, corresponding resistance, temperature coefficient and maximum expected temperature error for KTY81-210

$I_{cont} = 1 \text{ mA}$.

AMBIENT TEMPERATURE		TEMP. COEFF. (%/K)	KTY81-210			
(°C)	(°F)		RESISTANCE (Ω)			TEMP. ERROR (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
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