

## Silicon temperature sensors

## KTY81-1 series

**Table 2** Ambient temperature, corresponding resistance, temperature coefficient and maximum expected temperature error for KTY81-121 and KTY81-122 $I_{\text{cont}} = 1 \text{ mA}$ .

AMBIENT TEMPERATURE		TEMP. COEFF. (%/K)	KTY81-121				KTY81-122			
(°C)	(°F)		RESISTANCE (Ω)			TEMP. ERROR (K)	RESISTANCE (Ω)			TEMP. ERROR (K)
			MIN.	TYP.	MAX.		MIN.	TYP.	MAX.	
-55	-67	0.99	471	485	500	±3.02	480	495	510	±3.02
-50	-58	0.98	495	510	524	±2.92	505	520	535	±2.92
-40	-40	0.96	547	562	576	±2.74	558	573	588	±2.74
-30	-22	0.93	603	617	632	±2.55	615	630	645	±2.55
-20	-4	0.91	662	677	691	±2.35	676	690	705	±2.35
-10	14	0.88	726	740	754	±2.14	741	755	769	±2.14
0	32	0.85	794	807	820	±1.91	810	823	836	±1.91
10	50	0.83	865	877	889	±1.67	883	895	907	±1.67
20	68	0.80	941	951	962	±1.41	960	971	982	±1.41
25	77	0.79	980	990	1000	±1.27	1000	1010	1020	±1.27
30	86	0.78	1018	1029	1041	±1.39	1039	1050	1062	±1.39
40	104	0.75	1097	1111	1125	±1.64	1120	1134	1148	±1.64
50	122	0.73	1180	1196	1213	±1.91	1204	1221	1238	±1.91
60	140	0.71	1266	1286	1305	±2.19	1291	1312	1332	±2.19
70	158	0.69	1355	1378	1402	±2.49	1382	1406	1430	±2.49
80	176	0.67	1447	1475	1502	±2.8	1477	1505	1533	±2.8
90	194	0.65	1543	1575	1607	±3.12	1574	1607	1639	±3.12
100	212	0.63	1642	1679	1716	±3.46	1676	1713	1750	±3.46
110	230	0.61	1745	1786	1828	±3.83	1780	1823	1865	±3.83
120	248	0.58	1849	1896	1943	±4.33	1886	1934	1982	±4.33
125	257	0.55	1900	1950	2000	±4.66	1938	1989	2041	±4.66
130	266	0.52	1950	2003	2056	±5.07	1989	2044	2098	±5.07
140	284	0.45	2044	2103	2162	±6.28	2085	2146	2206	±6.28
150	302	0.35	2124	2189	2254	±8.55	2167	2233	2299	±8.55