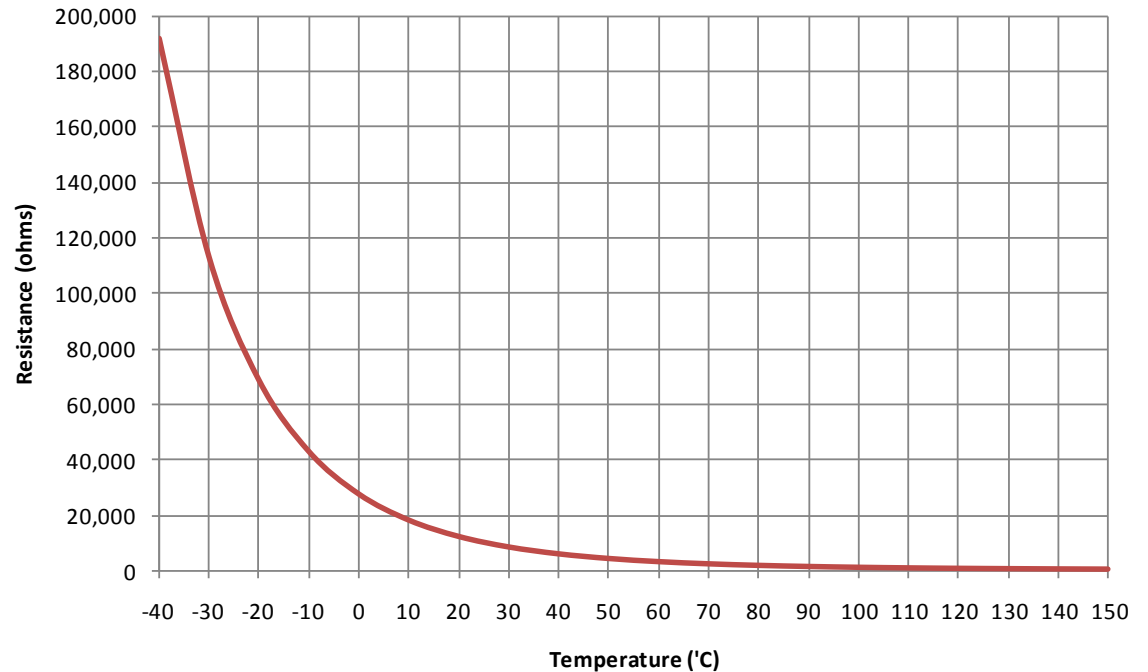


Basic Nonlinearity of Thermistor

	NTC 5K		NTC 8.2K		NTC 10K	
	B 3977K 3%@60°C		B 4160K 5%@25°C		B 3435K 3%@60°C	
T °C	R Ohm	ΔT ±°C	R Ohm	ΔT ±°C	R Ohm	ΔT ±°C
-50						
-40	167136	0,9			191908	0,9
-30	88066	0,9			112877	0,9
-20	48380	0,9			68471	0,9
-10	27609	0,9			42739	0,9
0	16312	0,9	28318	1,7	27396	0,9
10	9948	0,9	16866	1,4	17999	0,9
20	6246	0,9	10354	1,2	12099	0,9
25	5000	0,9	8200	1,1	10000	0,9
30	4028	0,9	6538	1,3	8308	0,9
40	2662	0,8	4237	1,7	5819	0,8
50	1799	0,8	2813	2,1	4151	0,8
60	1242	0,8	1910	2,6	3012	0,8
70	874	0,9	1324	3,0	2221	0,9
80	626	1,0	936	3,5	1663	1,0
90	456	1,1	673	4,1	1262	1,1
100	337	1,2	493	4,6	970	1,2
110	253	1,4			755	1,4
120	192	1,5			594	1,5
130	148	1,6			473	1,6
140	115	1,7			380	1,7
150	91	1,8			308	1,8

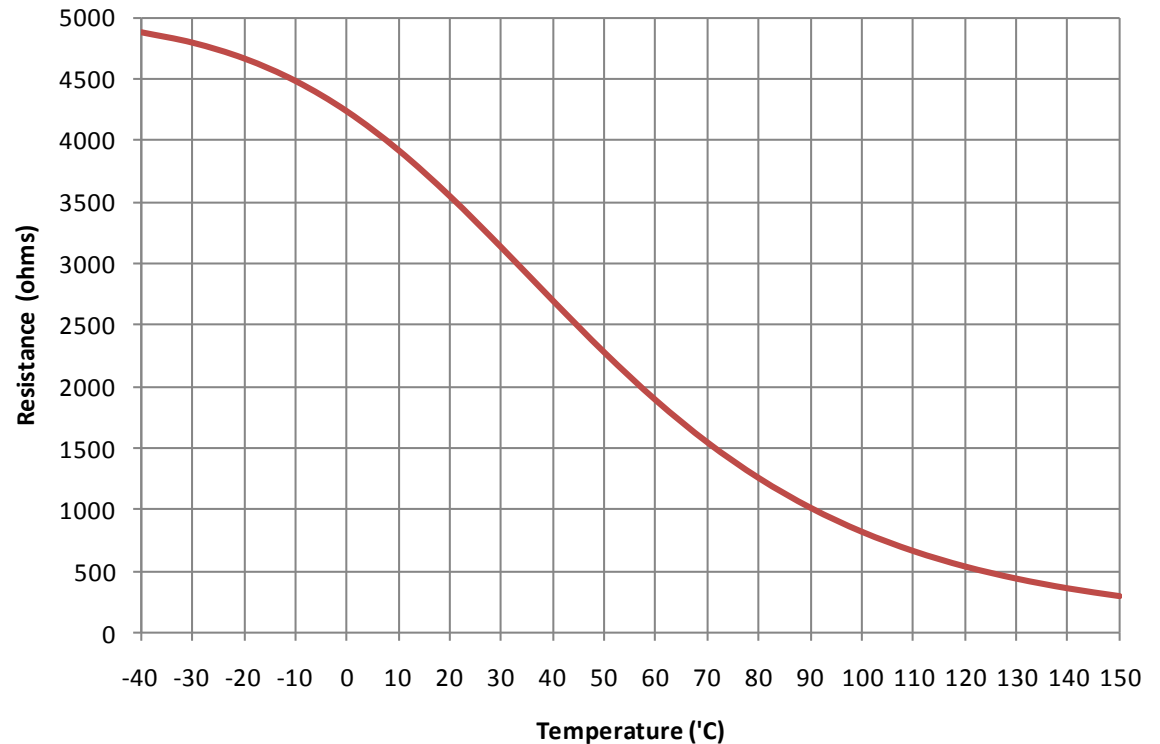
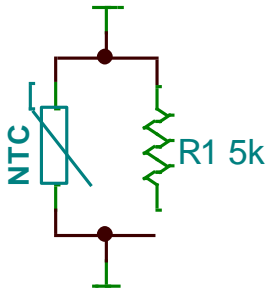
Resistance vs. Temperature



- Voltage too high at low temp if excited with 100uA
- Very nonlinear

Linearized with Parallel Resistor

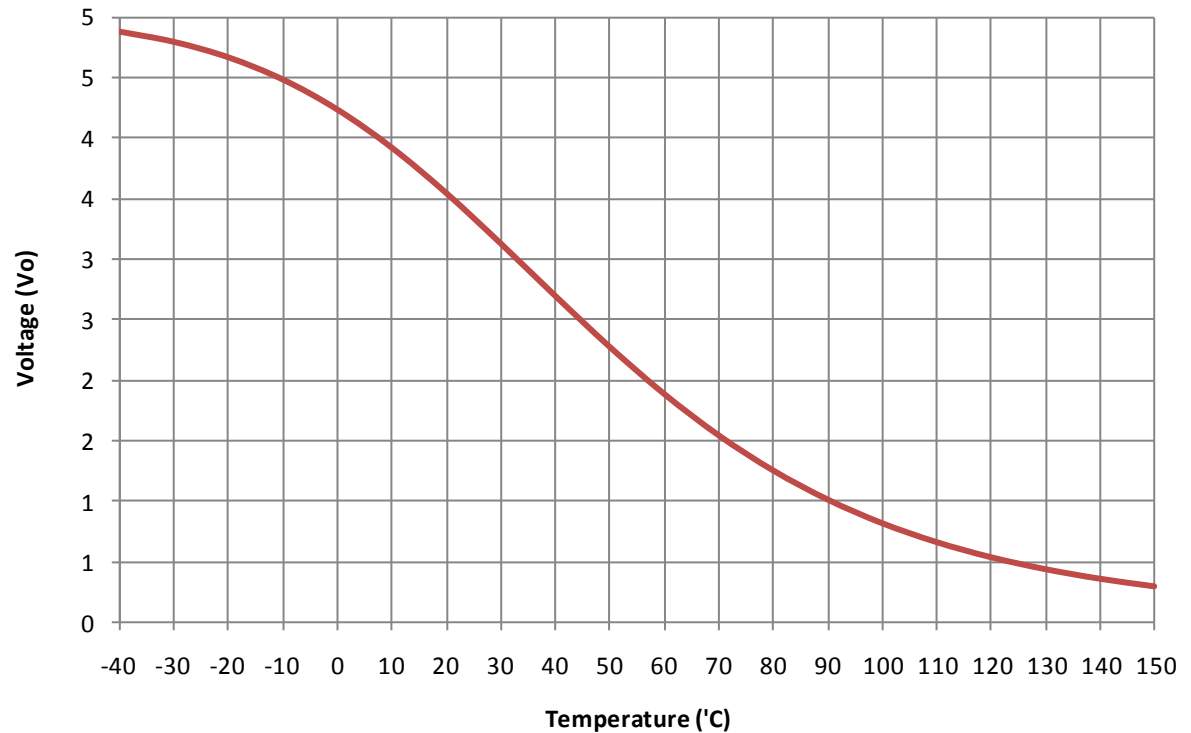
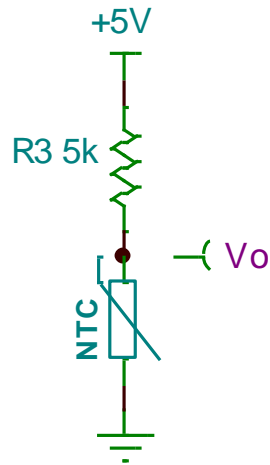
Resistance vs. Temperature



- Maximum 0.48V if excited with 100uA
- Improved nonlinearity

Excited with Voltage and Resistor

Voltage vs. Temperature



- Voltage excitation with series resistor
- Same improved nonlinearity as parallel resistor