

		Characteristic temperature sensing elements NTC 20k				NTC20k	
						VÝTISK ČÍSLO	
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Basic technical data

Sensing element	Bead thermistor NTC
Range of working temperatures	-55 to 150 °C *
Resistance at 25°C	20 kΩ
Long term stability of resistance	0,03%; after 8760 h at t = 70 °C
Recommended / maximal dc power drain	0,05 mW / 1mW
Tolerance field	± 0,5 °C for t = 25 °C ± 1,0 °C for t = 0 až 70 °C

* The real range of working temperatures of sensor is defined by the design and technology

Relation the resistor value on temperature

°C	0	-1	-2	-3	-4	-5	-6	-7	-8	-9
-50	1646200	1772600	1909400	2058000	2219000	2394000				
-40	806800	864600	927000	994400	1067200	1145800	1230800	1322600	1422000	1529600
-30	413400	441000	470800	503000	537400	574400	614200	657200	703400	753200
-20	220600	234600	249400	265200	282200	300400	320000	341000	363400	387400
-10	122280	129500	137200	145400	154160	163500	173460	184120	195480	207600
0	70160	74060	78200	82600	87260	92240	97520	103140	109120	115480

°C	0	1	2	3	4	5	6	7	8	9
0	70160	66480	63020	59760	56680	53780	51060	48460	46040	43720
10	41560	39500	37560	35720	33980	32340	30780	29320	27920	26600
20	25360	24160	23040	21980	20960	20000	19096	18232	17412	16632
30	15892	15188	14520	13884	13280	12704	12156	11636	11140	10666
40	10216	9788	9380	8990	8618	8264	7926	7604	7296	7002
50	6722	6454	6200	5954	5722	5498	5284	5080	4886	4698
60	4520	4348	4184	4028	3878	3734	3596	3464	3338	3216
70	3100	2988	2882	2778	2680	2586	2494	2408	2324	2244
80	2166	2092	2020	1952	1886	1822,6	1761,6	1703,0	1646,6	1592,2
90	1540,0	1489,6	1441,2	1394,6	1349,6	1306,4	1264,8	1224,6	1185,8	1148,6
100	1112,6	1078,0	1044,4	1012,2	981,0	951,0	922,0	894,0	867,0	841,0
110	815,8	791,4	768,0	745,2	723,4	702,2	681,8	662,0	642,8	624,4
120	606,4	589,2	572,4	556,2	540,6	525,6	510,8	496,6	483,0	469,6
130	456,8	444,4	432,2	420,6	409,2	398,4	387,6	377,4	367,4	357,8
140	348,4	339,2	330,4	322,0	313,6	305,6	297,8	290,2	282,8	275,8
150	268,8									

Characteristic of the sensing element

