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|---|---------------|---|--------------|-----------|-------------|--------------|-----|
|  | | Characteristic of temperature sensing elements NTC 12k | | | | NTC12k | |
| | | | | | | VÝTISK ČÍSLO | |
| AUTOR | Lukáš Osadník | | | | | SKART. ZNAK | S10 |
| STRANA | 1 z 2 | VERZE | B z 25.11.13 | NAHRAZUJE | A z 21.1.09 | KLASIF. KÓD | I |

Basic technical data


| | |
|-------------------------------|---------------------|
| Sensing element | thermistor NTC |
| Range of working temperatures | -40 to 125 °C * |
| Resistance at 25°C | 12 kΩ |
| B _{25/85} | 3740 K |
| Maximal dc power drain | 500mW |
| Tolerance field | ± 5 % for t = 25 °C |

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

Relation the resistor value on temperature

| °C | R [Ω] | +5% | -5% |
|-----|--------|--------|--------|
| -40 | 309,40 | 324,87 | 293,93 |
| -35 | 229,50 | 240,98 | 218,03 |
| -30 | 171,80 | 180,39 | 163,21 |
| -25 | 129,80 | 136,29 | 123,31 |
| -20 | 98,98 | 103,93 | 94,03 |
| -15 | 76,02 | 79,82 | 72,22 |
| -10 | 58,88 | 61,82 | 55,94 |
| -5 | 45,95 | 48,25 | 43,65 |
| 0 | 36,13 | 37,94 | 34,32 |

| °C | R [Ω] | +5% | -5% |
|-----|--------|--------|--------|
| 0 | 36,130 | 37,937 | 34,324 |
| 5 | 28,600 | 30,030 | 27,170 |
| 10 | 22,800 | 23,940 | 21,660 |
| 15 | 18,300 | 19,215 | 17,385 |
| 20 | 14,770 | 15,509 | 14,032 |
| 25 | 12,000 | 12,600 | 11,400 |
| 30 | 9,804 | 10,294 | 9,314 |
| 35 | 8,054 | 8,457 | 7,651 |
| 40 | 6,652 | 6,985 | 6,319 |
| 45 | 5,522 | 5,798 | 5,246 |
| 50 | 4,607 | 4,837 | 4,377 |
| 55 | 3,862 | 4,055 | 3,669 |
| 60 | 3,252 | 3,415 | 3,089 |
| 65 | 2,751 | 2,889 | 2,613 |
| 70 | 2,337 | 2,454 | 2,220 |
| 75 | 1,993 | 2,093 | 1,893 |
| 80 | 1,707 | 1,792 | 1,622 |
| 85 | 1,467 | 1,540 | 1,394 |
| 90 | 1,266 | 1,329 | 1,203 |
| 95 | 1,096 | 1,151 | 1,041 |
| 100 | 0,952 | 1,000 | 0,905 |
| 105 | 0,830 | 0,872 | 0,789 |
| 110 | 0,726 | 0,762 | 0,690 |
| 115 | 0,637 | 0,669 | 0,605 |
| 120 | 0,560 | 0,588 | 0,532 |
| 125 | 0,495 | 0,519 | 0,470 |

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| | | | | | | VÝTISK ČÍSLO | |
| AUTOR | Lukáš Osadník | | | SKART. ZNAK | S10 | | |
| STRANA | 2 z 2 | VERZE | B z 25.11.13 | NAHRAZUJE | A z 21.1.09 | KLASIF. KÓD | I |

Characteristic of the sensing element

