

Specification of DO-35 NTC Thermistor

PART NUMBER: **TT-DO-10KC8-3-1%**

No. of pages: 8

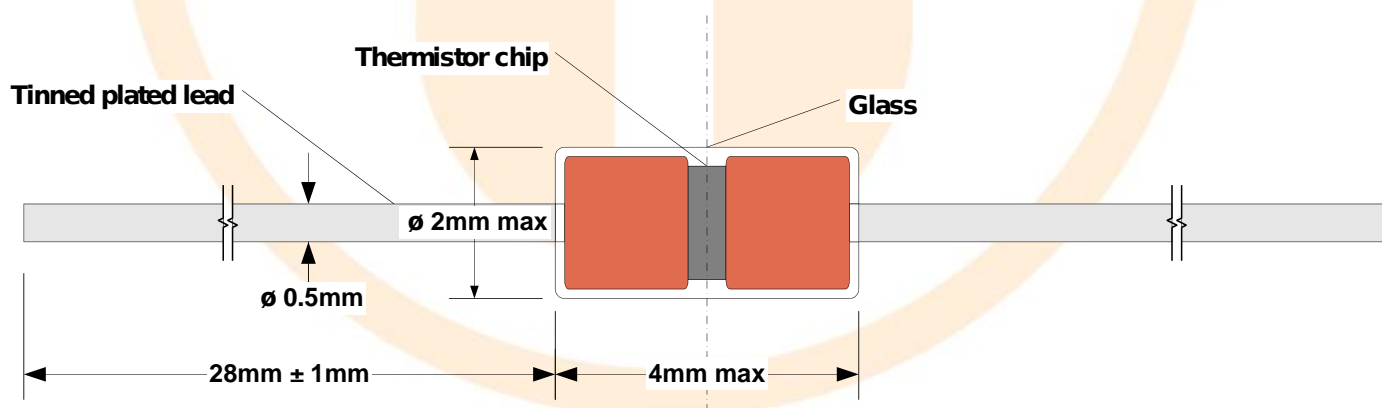
Date: **20.02.2019**

Revision: **00**

FEATURES:

| Element | DO-35 NTC Thermistor |
|-----------------------------|----------------------|
| No-load resistance at 25°C | 10 000 Ω |
| Tolerance at 25°C | ± 1% |
| Beta (25/85) Constant | 3 435K ±1% |
| Operating temperature range | -40°C ÷ 250°C |

DRAWING:



UNITS: [mm]

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| T(°C) | Rmin(KΩ) | Rnom(KΩ) | Rmax(KΩ) |
|-------|----------|----------|----------|
| -40 | 163.401 | 169.793 | 176.417 |
| -39 | 154.763 | 160.729 | 166.907 |
| -38 | 146.647 | 152.217 | 157.982 |
| -37 | 139.017 | 144.219 | 149.601 |
| -36 | 131.843 | 136.703 | 141.729 |
| -35 | 125.093 | 129.636 | 134.330 |
| -34 | 118.740 | 122.987 | 127.374 |
| -33 | 112.758 | 116.731 | 120.831 |
| -32 | 107.124 | 110.840 | 114.674 |
| -31 | 101.814 | 105.292 | 108.878 |
| -30 | 96.808 | 100.064 | 103.419 |
| -29 | 92.086 | 95.135 | 98.276 |
| -28 | 87.631 | 90.487 | 93.427 |
| -27 | 83.425 | 86.101 | 88.855 |
| -26 | 79.452 | 81.961 | 84.540 |
| -25 | 75.699 | 78.051 | 80.468 |
| -24 | 72.152 | 74.358 | 76.623 |
| -23 | 68.797 | 70.867 | 72.991 |
| -22 | 65.624 | 67.565 | 69.557 |
| -21 | 62.620 | 64.442 | 66.311 |
| -20 | 59.777 | 61.487 | 63.240 |
| -19 | 57.083 | 58.689 | 60.334 |
| -18 | 54.530 | 56.038 | 57.583 |
| -17 | 52.110 | 53.527 | 54.977 |
| -16 | 49.815 | 51.146 | 52.507 |
| -15 | 47.637 | 48.888 | 50.167 |
| -14 | 45.570 | 46.746 | 47.947 |
| -13 | 43.607 | 44.712 | 45.841 |
| -12 | 41.743 | 42.782 | 43.842 |
| -11 | 39.970 | 40.947 | 41.944 |
| -10 | 38.286 | 39.204 | 40.141 |
| -9 | 36.683 | 37.547 | 38.428 |
| -8 | 35.159 | 35.971 | 36.799 |
| -7 | 33.707 | 34.472 | 35.250 |
| -6 | 32.325 | 33.045 | 33.776 |
| -5 | 31.009 | 31.686 | 32.374 |
| -4 | 29.755 | 30.391 | 31.038 |
| -3 | 28.559 | 29.158 | 29.766 |
| -2 | 27.418 | 27.982 | 28.554 |
| -1 | 26.331 | 26.861 | 27.399 |
| 0 | 25.292 | 25.791 | 26.297 |
| 1 | 24.301 | 24.770 | 25.246 |
| 2 | 23.355 | 23.796 | 24.243 |

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| | | | |
|----|--------|--------|--------|
| 3 | 22.450 | 22.865 | 23.286 |
| 4 | 21.586 | 21.976 | 22.372 |
| 5 | 20.760 | 21.127 | 21.498 |
| 6 | 19.970 | 20.315 | 20.664 |
| 7 | 19.214 | 19.538 | 19.866 |
| 8 | 18.491 | 18.796 | 19.104 |
| 9 | 17.798 | 18.085 | 18.374 |
| 10 | 17.135 | 17.405 | 17.676 |
| 11 | 16.500 | 16.753 | 17.008 |
| 12 | 15.892 | 16.129 | 16.369 |
| 13 | 15.309 | 15.532 | 15.756 |
| 14 | 14.749 | 14.959 | 15.169 |
| 15 | 14.213 | 14.410 | 14.607 |
| 16 | 13.699 | 13.883 | 14.068 |
| 17 | 13.206 | 13.378 | 13.551 |
| 18 | 12.732 | 12.893 | 13.055 |
| 19 | 12.277 | 12.428 | 12.580 |
| 20 | 11.840 | 11.982 | 12.123 |
| 21 | 11.421 | 11.553 | 11.685 |
| 22 | 11.018 | 11.141 | 11.265 |
| 23 | 10.630 | 10.746 | 10.861 |
| 24 | 10.258 | 10.365 | 10.473 |
| 25 | 9.900 | 10.000 | 10.100 |
| 26 | 9.549 | 9.649 | 9.749 |
| 27 | 9.211 | 9.311 | 9.411 |
| 28 | 8.887 | 8.986 | 9.085 |
| 29 | 8.574 | 8.673 | 8.773 |
| 30 | 8.274 | 8.373 | 8.471 |
| 31 | 7.985 | 8.083 | 8.181 |
| 32 | 7.707 | 7.804 | 7.902 |
| 33 | 7.439 | 7.536 | 7.633 |
| 34 | 7.182 | 7.277 | 7.373 |
| 35 | 6.933 | 7.028 | 7.124 |
| 36 | 6.694 | 6.788 | 6.883 |
| 37 | 6.464 | 6.557 | 6.651 |
| 38 | 6.242 | 6.334 | 6.427 |
| 39 | 6.029 | 6.120 | 6.211 |
| 40 | 5.823 | 5.912 | 6.003 |
| 41 | 5.624 | 5.713 | 5.802 |
| 42 | 5.433 | 5.520 | 5.609 |
| 43 | 5.248 | 5.334 | 5.422 |
| 44 | 5.070 | 5.155 | 5.241 |
| 45 | 4.898 | 4.982 | 5.067 |
| 46 | 4.732 | 4.815 | 4.899 |

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|----|-------|-------|-------|
| 47 | 4.573 | 4.654 | 4.737 |
| 48 | 4.418 | 4.499 | 4.580 |
| 49 | 4.269 | 4.349 | 4.429 |
| 50 | 4.126 | 4.204 | 4.283 |
| 51 | 3.989 | 4.066 | 4.143 |
| 52 | 3.857 | 3.933 | 4.009 |
| 53 | 3.730 | 3.805 | 3.880 |
| 54 | 3.608 | 3.681 | 3.756 |
| 55 | 3.491 | 3.563 | 3.636 |
| 56 | 3.378 | 3.449 | 3.520 |
| 57 | 3.269 | 3.339 | 3.409 |
| 58 | 3.165 | 3.233 | 3.302 |
| 59 | 3.064 | 3.131 | 3.199 |
| 60 | 2.967 | 3.033 | 3.100 |
| 61 | 2.874 | 2.938 | 3.004 |
| 62 | 2.784 | 2.847 | 2.912 |
| 63 | 2.697 | 2.760 | 2.823 |
| 64 | 2.614 | 2.675 | 2.738 |
| 65 | 2.533 | 2.594 | 2.655 |
| 66 | 2.456 | 2.515 | 2.576 |
| 67 | 2.381 | 2.440 | 2.499 |
| 68 | 2.309 | 2.367 | 2.425 |
| 69 | 2.240 | 2.296 | 2.354 |
| 70 | 2.173 | 2.228 | 2.285 |
| 71 | 2.109 | 2.163 | 2.218 |
| 72 | 2.047 | 2.100 | 2.154 |
| 73 | 1.987 | 2.039 | 2.092 |
| 74 | 1.929 | 1.980 | 2.033 |
| 75 | 1.873 | 1.923 | 1.975 |
| 76 | 1.819 | 1.869 | 1.919 |
| 77 | 1.767 | 1.816 | 1.865 |
| 78 | 1.717 | 1.764 | 1.813 |
| 79 | 1.668 | 1.715 | 1.763 |
| 80 | 1.621 | 1.667 | 1.714 |
| 81 | 1.576 | 1.621 | 1.667 |
| 82 | 1.532 | 1.577 | 1.622 |
| 83 | 1.490 | 1.533 | 1.578 |
| 84 | 1.449 | 1.492 | 1.536 |
| 85 | 1.409 | 1.451 | 1.494 |
| 86 | 1.371 | 1.412 | 1.455 |
| 87 | 1.334 | 1.374 | 1.416 |
| 88 | 1.298 | 1.338 | 1.379 |
| 89 | 1.263 | 1.302 | 1.343 |
| 90 | 1.230 | 1.268 | 1.308 |

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|-----|-------|-------|-------|
| 91 | 1.197 | 1.235 | 1.274 |
| 92 | 1.166 | 1.203 | 1.241 |
| 93 | 1.135 | 1.172 | 1.209 |
| 94 | 1.106 | 1.141 | 1.178 |
| 95 | 1.077 | 1.112 | 1.148 |
| 96 | 1.049 | 1.084 | 1.119 |
| 97 | 1.022 | 1.056 | 1.091 |
| 98 | 0.996 | 1.029 | 1.063 |
| 99 | 0.971 | 1.003 | 1.037 |
| 100 | 0.946 | 0.978 | 1.011 |
| 101 | 0.922 | 0.954 | 0.986 |
| 102 | 0.899 | 0.930 | 0.962 |
| 103 | 0.876 | 0.907 | 0.938 |
| 104 | 0.855 | 0.884 | 0.915 |
| 105 | 0.833 | 0.863 | 0.893 |
| 106 | 0.813 | 0.842 | 0.871 |
| 107 | 0.793 | 0.821 | 0.850 |
| 108 | 0.773 | 0.801 | 0.830 |
| 109 | 0.754 | 0.782 | 0.810 |
| 110 | 0.736 | 0.763 | 0.790 |
| 111 | 0.718 | 0.744 | 0.772 |
| 112 | 0.701 | 0.727 | 0.753 |
| 113 | 0.684 | 0.709 | 0.735 |
| 114 | 0.667 | 0.692 | 0.718 |
| 115 | 0.651 | 0.676 | 0.701 |
| 116 | 0.636 | 0.660 | 0.685 |
| 117 | 0.620 | 0.644 | 0.669 |
| 118 | 0.606 | 0.629 | 0.653 |
| 119 | 0.591 | 0.614 | 0.638 |
| 120 | 0.577 | 0.600 | 0.623 |
| 121 | 0.564 | 0.586 | 0.608 |
| 122 | 0.550 | 0.572 | 0.594 |
| 123 | 0.537 | 0.559 | 0.581 |
| 124 | 0.525 | 0.546 | 0.567 |
| 125 | 0.512 | 0.533 | 0.554 |
| 126 | 0.500 | 0.521 | 0.541 |
| 127 | 0.489 | 0.509 | 0.529 |
| 128 | 0.477 | 0.497 | 0.517 |
| 129 | 0.466 | 0.485 | 0.505 |
| 130 | 0.455 | 0.474 | 0.494 |
| 131 | 0.445 | 0.463 | 0.482 |
| 132 | 0.434 | 0.453 | 0.471 |
| 133 | 0.424 | 0.442 | 0.461 |
| 134 | 0.414 | 0.432 | 0.450 |

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|-----|-------|-------|-------|
| 135 | 0.405 | 0.422 | 0.440 |
| 136 | 0.395 | 0.412 | 0.430 |
| 137 | 0.386 | 0.403 | 0.420 |
| 138 | 0.377 | 0.394 | 0.411 |
| 139 | 0.369 | 0.385 | 0.401 |
| 140 | 0.360 | 0.376 | 0.392 |
| 141 | 0.352 | 0.367 | 0.383 |
| 142 | 0.344 | 0.359 | 0.375 |
| 143 | 0.336 | 0.351 | 0.366 |
| 144 | 0.328 | 0.343 | 0.358 |
| 145 | 0.320 | 0.335 | 0.350 |
| 146 | 0.313 | 0.327 | 0.342 |
| 147 | 0.306 | 0.320 | 0.334 |
| 148 | 0.299 | 0.312 | 0.327 |
| 149 | 0.292 | 0.305 | 0.319 |
| 150 | 0.285 | 0.298 | 0.312 |
| 151 | 0.279 | 0.292 | 0.306 |
| 152 | 0.274 | 0.287 | 0.300 |
| 153 | 0.268 | 0.281 | 0.294 |
| 154 | 0.263 | 0.275 | 0.288 |
| 155 | 0.258 | 0.270 | 0.283 |
| 156 | 0.253 | 0.265 | 0.277 |
| 157 | 0.248 | 0.260 | 0.272 |
| 158 | 0.243 | 0.255 | 0.267 |
| 159 | 0.238 | 0.250 | 0.262 |
| 160 | 0.234 | 0.245 | 0.257 |
| 161 | 0.229 | 0.240 | 0.252 |
| 162 | 0.225 | 0.236 | 0.247 |
| 163 | 0.220 | 0.231 | 0.242 |
| 164 | 0.216 | 0.227 | 0.238 |
| 165 | 0.212 | 0.222 | 0.233 |
| 166 | 0.208 | 0.218 | 0.229 |
| 167 | 0.204 | 0.214 | 0.225 |
| 168 | 0.200 | 0.210 | 0.221 |
| 169 | 0.196 | 0.206 | 0.216 |
| 170 | 0.193 | 0.202 | 0.212 |
| 171 | 0.189 | 0.199 | 0.208 |
| 172 | 0.186 | 0.195 | 0.205 |
| 173 | 0.182 | 0.191 | 0.201 |
| 174 | 0.179 | 0.188 | 0.197 |
| 175 | 0.175 | 0.184 | 0.194 |
| 176 | 0.172 | 0.181 | 0.190 |
| 177 | 0.169 | 0.178 | 0.187 |
| 178 | 0.166 | 0.174 | 0.183 |

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|-----|-------|-------|-------|
| 179 | 0.163 | 0.171 | 0.180 |
| 180 | 0.160 | 0.168 | 0.177 |
| 181 | 0.157 | 0.165 | 0.174 |
| 182 | 0.154 | 0.162 | 0.171 |
| 183 | 0.151 | 0.159 | 0.168 |
| 184 | 0.149 | 0.156 | 0.165 |
| 185 | 0.146 | 0.154 | 0.162 |
| 186 | 0.143 | 0.151 | 0.159 |
| 187 | 0.141 | 0.148 | 0.156 |
| 188 | 0.138 | 0.146 | 0.153 |
| 189 | 0.136 | 0.143 | 0.151 |
| 190 | 0.133 | 0.141 | 0.148 |
| 191 | 0.131 | 0.138 | 0.146 |
| 192 | 0.129 | 0.136 | 0.143 |
| 193 | 0.126 | 0.133 | 0.141 |
| 194 | 0.124 | 0.131 | 0.138 |
| 195 | 0.122 | 0.129 | 0.136 |
| 196 | 0.120 | 0.127 | 0.133 |
| 197 | 0.118 | 0.124 | 0.131 |
| 198 | 0.116 | 0.122 | 0.129 |
| 199 | 0.114 | 0.120 | 0.127 |
| 200 | 0.112 | 0.118 | 0.125 |
| 201 | 0.110 | 0.116 | 0.123 |
| 202 | 0.108 | 0.114 | 0.121 |
| 203 | 0.106 | 0.112 | 0.119 |
| 204 | 0.104 | 0.110 | 0.117 |
| 205 | 0.103 | 0.108 | 0.115 |
| 206 | 0.101 | 0.107 | 0.113 |
| 207 | 0.099 | 0.105 | 0.111 |
| 208 | 0.098 | 0.103 | 0.109 |
| 209 | 0.096 | 0.101 | 0.107 |
| 210 | 0.094 | 0.100 | 0.105 |
| 211 | 0.093 | 0.098 | 0.104 |
| 212 | 0.091 | 0.096 | 0.102 |
| 213 | 0.090 | 0.095 | 0.100 |
| 214 | 0.088 | 0.093 | 0.099 |
| 215 | 0.087 | 0.092 | 0.097 |
| 216 | 0.085 | 0.090 | 0.096 |
| 217 | 0.084 | 0.089 | 0.094 |
| 218 | 0.082 | 0.087 | 0.092 |
| 219 | 0.081 | 0.086 | 0.091 |
| 220 | 0.080 | 0.085 | 0.090 |
| 221 | 0.079 | 0.083 | 0.088 |
| 222 | 0.077 | 0.082 | 0.087 |

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|-----|-------|-------|-------|
| 223 | 0.076 | 0.081 | 0.085 |
| 224 | 0.075 | 0.079 | 0.084 |
| 225 | 0.074 | 0.078 | 0.083 |
| 226 | 0.072 | 0.077 | 0.081 |
| 227 | 0.071 | 0.076 | 0.080 |
| 228 | 0.070 | 0.074 | 0.079 |
| 229 | 0.069 | 0.073 | 0.078 |
| 230 | 0.068 | 0.072 | 0.076 |
| 231 | 0.067 | 0.071 | 0.075 |
| 232 | 0.066 | 0.070 | 0.074 |
| 233 | 0.065 | 0.069 | 0.073 |
| 234 | 0.064 | 0.068 | 0.072 |
| 235 | 0.063 | 0.067 | 0.071 |
| 236 | 0.062 | 0.066 | 0.070 |
| 237 | 0.061 | 0.065 | 0.069 |
| 238 | 0.060 | 0.064 | 0.067 |
| 239 | 0.059 | 0.063 | 0.066 |
| 240 | 0.058 | 0.062 | 0.065 |
| 241 | 0.057 | 0.061 | 0.064 |
| 242 | 0.056 | 0.060 | 0.063 |
| 243 | 0.055 | 0.059 | 0.062 |
| 244 | 0.054 | 0.058 | 0.062 |
| 245 | 0.054 | 0.057 | 0.061 |
| 246 | 0.053 | 0.056 | 0.060 |
| 247 | 0.052 | 0.055 | 0.059 |
| 248 | 0.051 | 0.054 | 0.058 |
| 249 | 0.050 | 0.054 | 0.057 |
| 250 | 0.050 | 0.053 | 0.056 |

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