



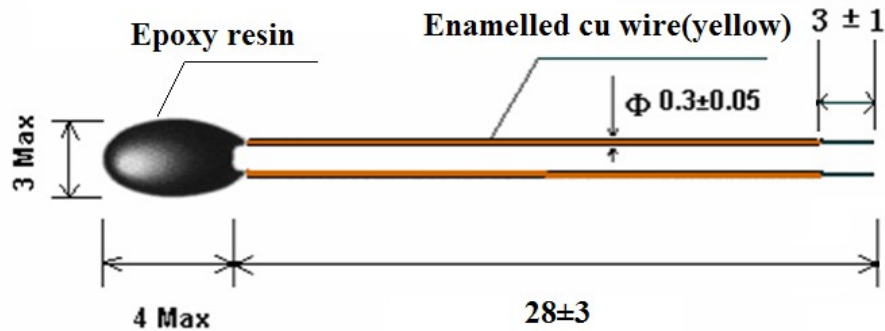
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# Specifications for NTC Thermistor

|          |               |
|----------|---------------|
| Part No. | NTCM-1K-B3950 |
|----------|---------------|

## 1、Dimensions(mm)



## 2、Materials

| Coating     |       | Lead wire         |        |
|-------------|-------|-------------------|--------|
| Material    | Color | Material          | Color  |
| Epoxy Resin | Black | Enamelled Cu wire | Yellow |

## 3、Ordering information

| MF52                                        | B2                | 102                                      | F         | 3950              |
|---------------------------------------------|-------------------|------------------------------------------|-----------|-------------------|
| Pearl-Shape Temp Measurement NTC Thermistor | Enamelled cu wire | Resistance                               | Tolerance | B-value ( 25/50 ) |
|                                             |                   | 10 $\times$ 10 <sup>2</sup> =1K $\Omega$ | $\pm$ 1%  | 3950K             |

## 4、Electrical characteristics

|     | Item                                     | Symbol             | Test conditions                                                                                                                                                                        | Unit             | Specification |
|-----|------------------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| 4.1 | Zero Power Resistance at 25 $^{\circ}$ C | R <sub>25</sub>    | T <sub>a</sub> =25 $\pm$ 0.05 $^{\circ}$ C<br>Test Power $\leq$ 0.1mW<br>Test in fluid liquid                                                                                          | K $\Omega$       | 1 $\pm$ 1%    |
| 4.2 | B-value                                  | B <sub>25/50</sub> | B=[(T <sub>a</sub> $\times$ T <sub>b</sub> )/(T <sub>b</sub> -T <sub>a</sub> )] $\times$ ln(R <sub>a</sub> /R <sub>b</sub> )<br>T <sub>b</sub> =50 $^{\circ}$ C $\pm$ 0.1 $^{\circ}$ C | K                | 3950 $\pm$ 1% |
| 4.3 | Thermal dissipation Coefficient          | $\delta$           | In still air                                                                                                                                                                           | mW/ $^{\circ}$ C | $\geq$ 2      |

|     |                       |        |              |            |                    |
|-----|-----------------------|--------|--------------|------------|--------------------|
| 4.4 | Thermal time constant | $\tau$ | In still air | sec        | $\leq 7$           |
| 4.5 | Insulation resistance | /      | 100V/DC 1min | M $\Omega$ | $\geq 100$         |
| 4.6 | Operating temperature | /      | /            | °C         | -55 ~ 125          |
| 4.7 | R&T-table             | /      | /            | /          | See attached table |
| 4.8 | Resistance tolerance  | /      | /            | /          | See attached curve |

## 5、Reliability

|      | Item                                               | Test conditions and methods                                                                        | Technical requirements                                                                                                                       |
|------|----------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 5.1  | Solderability                                      | The lead wire shall be dipped into solder bath of 235±5°C for 2~3sec with 6mm space from the body. | Solder dipped on lead wire should be uniform and smooth; the coverage area should be more than 95%.                                          |
| 5.2  | Withstand Soldering heat                           | The lead wire shall be dipped into solder bath of 265±5°C for 5±1sec with 6mm space from the body. | No obvious damage,<br>R25 $\Delta R/R \leq \pm 2\%$                                                                                          |
| 5.3  | Terminal strength                                  | Pull strength : 5N , time : 10sec                                                                  | No obvious damage,<br>R25 $\Delta R/R \leq \pm 2\%$                                                                                          |
| 5.4  | Temperature cycle                                  | -55°C 30min → 25°C 5min → 125°C 30min → 25°C 5min , 5cycles ,recover 4hrs                          | No obvious damage,<br>R25 $\Delta R/R \leq \pm 2\%$                                                                                          |
| 5.5  | High temperature                                   | Temperature : 125°C ,time : 16hrs                                                                  | No obvious damage,<br>R25 $\Delta R/R \leq \pm 2\%$                                                                                          |
| 5.6  | Low temperature                                    | Temperature : -55°C ,Time : 2hrs                                                                   | No obvious damage,<br>R25 $\Delta R/R \leq \pm 2\%$                                                                                          |
| 5.7  | Low atmospheric pressure                           | Atmospheric pressure : 40±0.1Kpa , time :4hrs                                                      | No obvious damage,<br>R25 $\Delta R/R \leq \pm 2\%$                                                                                          |
| 5.8  | Steady humidity and heat                           | Temp : 40°C ,humidity : 93% , Time : 500±12hrs                                                     | No obvious damage,<br>R25 $\Delta R/R \leq \pm 2\%$ ,<br>Withstanding voltage $\geq 700V/AC$ 1min<br>Insulating resistance $\geq 100M\Omega$ |
| 5.9  | Damp heat                                          | Temp : 25~40°C ,humidity : 90% , Time : 24hrs                                                      | No obvious damage,<br>R25 $\Delta R/R \leq \pm 2\%$ ,<br>Withstanding voltage $\geq 700V/AC$ 1min<br>Insulating resistance $\geq 100M\Omega$ |
| 5.10 | Zero power endurance at upper category temperature | Temp : 125°C±2°C , Time :1000±24hrs                                                                | No obvious damage,<br>R25 $\Delta R/R \leq \pm 2\%$                                                                                          |
| 5.11 | Vibrate                                            | Frequency :10~500HZ ,swing :0.75m or 98m/S <sup>2</sup> , time :2hurs                              | No obvious damage,<br>R25 $\Delta R/R \leq \pm 2\%$                                                                                          |
| 5.12 | Bump                                               | Acceleration :250m/S <sup>2</sup> ,pulse duration : 6mS , Bump times : 4000times                   | No obvious damage,<br>R25 $\Delta R/R \leq \pm 2\%$                                                                                          |

## 6、Soldering conditions

When soldering, space between iron tip and thermistor body must be more than 6mm, temperature should be less than 350℃, soldering time should be as short as possible.

## 7、Storage conditions

7.1 Storage temp : -10℃ ~ 40℃ ;

7.2 Storage humidity : ≤75% RH ;

7.3 Avoid air corrosion or sunlight

7.4 Remake sealed storage after package opening.

## 8. Certificate

8.1 Quality Control System Certification

ISO9001 : 2000 ( 01110Q20002R3M )

8.2 Environment Management System Certification

ISO14001 : 2004 ( 01110E20031R1M )

8.3 Environment Test Report

RoHS ( RLSHD000645310001C )

8.4



CQC Certification

(CQC07001019009)

## R&T Table

| R25=1K Ω TOLERANCE: ±1% |                  |         |         | B25/50=3950K TOLERANCE: ±1% ( P199-1 ) |        |               |        |
|-------------------------|------------------|---------|---------|----------------------------------------|--------|---------------|--------|
| TEMP (°C)               | RESISTANCE (K Ω) |         |         | RESISST-TOL (%)                        |        | TEMP-TOL (°C) |        |
|                         | MIN              | CENTER  | MAX     | △R                                     | -△R    | △T            | -△T    |
| -55                     | 105.165          | 111.353 | 117.894 | 5.873                                  | -5.557 | 0.729         | -0.690 |
| -54                     | 96.841           | 102.454 | 108.381 | 5.785                                  | -5.478 | 0.725         | -0.687 |
| -53                     | 89.275           | 94.372  | 99.750  | 5.698                                  | -5.400 | 0.721         | -0.684 |
| -52                     | 82.388           | 87.022  | 91.906  | 5.613                                  | -5.324 | 0.717         | -0.680 |
| -51                     | 76.112           | 80.328  | 84.769  | 5.528                                  | -5.248 | 0.713         | -0.677 |
| -50                     | 70.385           | 74.225  | 78.267  | 5.445                                  | -5.173 | 0.709         | -0.674 |
| -49                     | 65.152           | 68.653  | 72.335  | 5.362                                  | -5.099 | 0.705         | -0.670 |
| -48                     | 60.364           | 63.559  | 66.916  | 5.281                                  | -5.026 | 0.701         | -0.667 |
| -47                     | 55.980           | 58.897  | 61.961  | 5.201                                  | -4.953 | 0.696         | -0.663 |
| -46                     | 51.959           | 54.626  | 57.425  | 5.122                                  | -4.882 | 0.692         | -0.660 |
| -45                     | 48.269           | 50.709  | 53.266  | 5.044                                  | -4.811 | 0.688         | -0.656 |
| -44                     | 44.877           | 47.111  | 49.451  | 4.966                                  | -4.741 | 0.683         | -0.652 |
| -43                     | 41.758           | 43.804  | 45.947  | 4.890                                  | -4.672 | 0.679         | -0.648 |
| -42                     | 38.885           | 40.762  | 42.724  | 4.815                                  | -4.603 | 0.674         | -0.644 |

|     |        |        |        |       |        |       |        |
|-----|--------|--------|--------|-------|--------|-------|--------|
| -41 | 36.238 | 37.959 | 39.759 | 4.740 | -4.535 | 0.669 | -0.640 |
| -40 | 33.795 | 35.376 | 37.027 | 4.666 | -4.468 | 0.665 | -0.636 |
| -39 | 31.540 | 32.992 | 34.507 | 4.593 | -4.401 | 0.660 | -0.632 |
| -38 | 29.455 | 30.790 | 32.182 | 4.521 | -4.335 | 0.655 | -0.628 |
| -37 | 27.527 | 28.755 | 30.034 | 4.450 | -4.270 | 0.650 | -0.624 |
| -36 | 25.742 | 26.872 | 28.048 | 4.379 | -4.205 | 0.645 | -0.619 |
| -35 | 24.088 | 25.128 | 26.211 | 4.309 | -4.140 | 0.640 | -0.615 |
| -34 | 22.554 | 23.512 | 24.509 | 4.240 | -4.077 | 0.635 | -0.611 |
| -33 | 21.131 | 22.014 | 22.932 | 4.171 | -4.013 | 0.630 | -0.606 |
| -32 | 19.809 | 20.624 | 21.470 | 4.103 | -3.951 | 0.625 | -0.601 |
| -31 | 18.580 | 19.332 | 20.112 | 4.036 | -3.889 | 0.619 | -0.597 |
| -30 | 17.438 | 18.132 | 18.852 | 3.969 | -3.827 | 0.614 | -0.592 |
| -29 | 16.375 | 17.015 | 17.680 | 3.903 | -3.766 | 0.609 | -0.587 |
| -28 | 15.384 | 15.976 | 16.590 | 3.837 | -3.705 | 0.603 | -0.582 |
| -27 | 14.462 | 15.009 | 15.575 | 3.773 | -3.645 | 0.598 | -0.577 |
| -26 | 13.601 | 14.107 | 14.630 | 3.708 | -3.585 | 0.592 | -0.572 |
| -25 | 12.798 | 13.266 | 13.750 | 3.645 | -3.526 | 0.586 | -0.567 |
| -24 | 12.049 | 12.482 | 12.929 | 3.581 | -3.467 | 0.581 | -0.562 |
| -23 | 11.348 | 11.749 | 12.163 | 3.519 | -3.409 | 0.575 | -0.557 |
| -22 | 10.694 | 11.065 | 11.447 | 3.457 | -3.351 | 0.569 | -0.551 |
| -21 | 10.082 | 10.425 | 10.779 | 3.395 | -3.293 | 0.563 | -0.546 |
| -20 | 9.509  | 9.827  | 10.155 | 3.334 | -3.236 | 0.557 | -0.541 |
| -19 | 8.973  | 9.267  | 9.571  | 3.274 | -3.179 | 0.551 | -0.535 |
| -18 | 8.470  | 8.743  | 9.024  | 3.213 | -3.123 | 0.545 | -0.530 |
| -17 | 7.999  | 8.253  | 8.513  | 3.154 | -3.067 | 0.539 | -0.524 |
| -16 | 7.558  | 7.793  | 8.034  | 3.095 | -3.011 | 0.533 | -0.518 |
| -15 | 7.144  | 7.361  | 7.585  | 3.036 | -2.956 | 0.526 | -0.512 |
| -14 | 6.755  | 6.957  | 7.164  | 2.978 | -2.901 | 0.520 | -0.507 |
| -13 | 6.390  | 6.577  | 6.769  | 2.920 | -2.847 | 0.514 | -0.501 |
| -12 | 6.047  | 6.221  | 6.399  | 2.863 | -2.793 | 0.507 | -0.495 |
| -11 | 5.724  | 5.886  | 6.051  | 2.806 | -2.739 | 0.501 | -0.489 |
| -10 | 5.421  | 5.571  | 5.724  | 2.749 | -2.685 | 0.494 | -0.483 |
| -9  | 5.136  | 5.275  | 5.417  | 2.693 | -2.632 | 0.487 | -0.476 |
| -8  | 4.868  | 4.997  | 5.128  | 2.638 | -2.580 | 0.481 | -0.470 |
| -7  | 4.615  | 4.735  | 4.857  | 2.582 | -2.527 | 0.474 | -0.464 |
| -6  | 4.377  | 4.488  | 4.601  | 2.527 | -2.475 | 0.467 | -0.457 |
| -5  | 4.153  | 4.256  | 4.361  | 2.473 | -2.423 | 0.460 | -0.451 |
| -4  | 3.941  | 4.037  | 4.135  | 2.419 | -2.372 | 0.453 | -0.444 |
| -3  | 3.742  | 3.831  | 3.921  | 2.365 | -2.320 | 0.446 | -0.438 |
| -2  | 3.554  | 3.636  | 3.720  | 2.312 | -2.269 | 0.439 | -0.431 |
| -1  | 3.376  | 3.453  | 3.531  | 2.259 | -2.219 | 0.432 | -0.425 |
| 0   | 3.208  | 3.280  | 3.352  | 2.206 | -2.169 | 0.425 | -0.418 |
| 1   | 3.050  | 3.116  | 3.183  | 2.154 | -2.118 | 0.418 | -0.411 |
| 2   | 2.900  | 2.962  | 3.024  | 2.102 | -2.069 | 0.411 | -0.404 |

|    |       |       |       |       |        |       |        |
|----|-------|-------|-------|-------|--------|-------|--------|
| 3  | 2.759 | 2.816 | 2.874 | 2.051 | -2.019 | 0.403 | -0.397 |
| 4  | 2.625 | 2.678 | 2.732 | 2.000 | -1.970 | 0.396 | -0.390 |
| 5  | 2.499 | 2.548 | 2.598 | 1.949 | -1.921 | 0.388 | -0.383 |
| 6  | 2.379 | 2.425 | 2.471 | 1.898 | -1.873 | 0.381 | -0.376 |
| 7  | 2.266 | 2.308 | 2.351 | 1.848 | -1.824 | 0.373 | -0.368 |
| 8  | 2.159 | 2.198 | 2.238 | 1.798 | -1.776 | 0.366 | -0.361 |
| 9  | 2.058 | 2.094 | 2.131 | 1.749 | -1.729 | 0.358 | -0.354 |
| 10 | 1.965 | 1.998 | 2.032 | 1.701 | -1.683 | 0.350 | -0.346 |
| 11 | 1.870 | 1.902 | 1.933 | 1.651 | -1.634 | 0.342 | -0.339 |
| 12 | 1.784 | 1.813 | 1.842 | 1.602 | -1.587 | 0.334 | -0.331 |
| 13 | 1.702 | 1.729 | 1.756 | 1.554 | -1.540 | 0.326 | -0.323 |
| 14 | 1.625 | 1.649 | 1.674 | 1.506 | -1.494 | 0.318 | -0.316 |
| 15 | 1.551 | 1.574 | 1.597 | 1.459 | -1.448 | 0.310 | -0.308 |
| 16 | 1.481 | 1.502 | 1.523 | 1.412 | -1.402 | 0.302 | -0.300 |
| 17 | 1.415 | 1.434 | 1.454 | 1.365 | -1.356 | 0.294 | -0.292 |
| 18 | 1.351 | 1.369 | 1.387 | 1.318 | -1.311 | 0.286 | -0.284 |
| 19 | 1.292 | 1.308 | 1.325 | 1.272 | -1.265 | 0.278 | -0.276 |
| 20 | 1.235 | 1.250 | 1.265 | 1.225 | -1.221 | 0.269 | -0.268 |
| 21 | 1.181 | 1.195 | 1.209 | 1.180 | -1.176 | 0.261 | -0.260 |
| 22 | 1.129 | 1.142 | 1.155 | 1.134 | -1.131 | 0.252 | -0.252 |
| 23 | 1.080 | 1.092 | 1.104 | 1.089 | -1.087 | 0.244 | -0.243 |
| 24 | 1.034 | 1.045 | 1.056 | 1.044 | -1.043 | 0.235 | -0.235 |
| 25 | 0.990 | 1.000 | 1.010 | 1.000 | -1.000 | 0.227 | -0.227 |
| 26 | 0.947 | 0.957 | 0.967 | 1.044 | -1.043 | 0.238 | -0.238 |
| 27 | 0.906 | 0.916 | 0.926 | 1.088 | -1.086 | 0.250 | -0.249 |
| 28 | 0.867 | 0.877 | 0.887 | 1.132 | -1.129 | 0.261 | -0.261 |
| 29 | 0.830 | 0.840 | 0.850 | 1.176 | -1.172 | 0.273 | -0.272 |
| 30 | 0.795 | 0.804 | 0.814 | 1.219 | -1.214 | 0.285 | -0.284 |
| 31 | 0.761 | 0.771 | 0.781 | 1.262 | -1.256 | 0.297 | -0.296 |
| 32 | 0.729 | 0.739 | 0.748 | 1.305 | -1.298 | 0.309 | -0.307 |
| 33 | 0.699 | 0.708 | 0.718 | 1.348 | -1.340 | 0.321 | -0.319 |
| 34 | 0.670 | 0.679 | 0.689 | 1.390 | -1.381 | 0.333 | -0.331 |
| 35 | 0.642 | 0.651 | 0.661 | 1.433 | -1.422 | 0.346 | -0.343 |
| 36 | 0.616 | 0.625 | 0.634 | 1.475 | -1.463 | 0.358 | -0.355 |
| 37 | 0.591 | 0.600 | 0.609 | 1.516 | -1.504 | 0.370 | -0.367 |
| 38 | 0.567 | 0.576 | 0.585 | 1.558 | -1.544 | 0.383 | -0.379 |
| 39 | 0.544 | 0.553 | 0.562 | 1.599 | -1.584 | 0.396 | -0.392 |
| 40 | 0.522 | 0.531 | 0.539 | 1.640 | -1.624 | 0.408 | -0.404 |
| 41 | 0.501 | 0.510 | 0.518 | 1.681 | -1.663 | 0.421 | -0.416 |
| 42 | 0.481 | 0.490 | 0.498 | 1.722 | -1.703 | 0.434 | -0.429 |
| 43 | 0.462 | 0.471 | 0.479 | 1.763 | -1.742 | 0.447 | -0.441 |
| 44 | 0.444 | 0.452 | 0.461 | 1.803 | -1.781 | 0.460 | -0.454 |
| 45 | 0.427 | 0.435 | 0.443 | 1.843 | -1.819 | 0.473 | -0.467 |
| 46 | 0.410 | 0.418 | 0.426 | 1.883 | -1.858 | 0.486 | -0.479 |

|    |       |       |       |       |        |       |        |
|----|-------|-------|-------|-------|--------|-------|--------|
| 47 | 0.395 | 0.402 | 0.410 | 1.922 | -1.896 | 0.499 | -0.492 |
| 48 | 0.379 | 0.387 | 0.395 | 1.962 | -1.934 | 0.512 | -0.505 |
| 49 | 0.365 | 0.372 | 0.380 | 2.001 | -1.971 | 0.526 | -0.518 |
| 50 | 0.352 | 0.359 | 0.366 | 2.039 | -2.008 | 0.539 | -0.531 |
| 51 | 0.338 | 0.345 | 0.352 | 2.079 | -2.046 | 0.553 | -0.544 |
| 52 | 0.325 | 0.332 | 0.339 | 2.117 | -2.083 | 0.566 | -0.557 |
| 53 | 0.313 | 0.320 | 0.327 | 2.155 | -2.120 | 0.580 | -0.570 |
| 54 | 0.302 | 0.308 | 0.315 | 2.194 | -2.156 | 0.594 | -0.583 |
| 55 | 0.290 | 0.297 | 0.304 | 2.232 | -2.193 | 0.607 | -0.597 |
| 56 | 0.280 | 0.286 | 0.293 | 2.269 | -2.229 | 0.621 | -0.610 |
| 57 | 0.270 | 0.276 | 0.282 | 2.307 | -2.265 | 0.635 | -0.624 |
| 58 | 0.260 | 0.266 | 0.272 | 2.344 | -2.300 | 0.649 | -0.637 |
| 59 | 0.250 | 0.256 | 0.263 | 2.381 | -2.336 | 0.663 | -0.651 |
| 60 | 0.241 | 0.247 | 0.253 | 2.418 | -2.371 | 0.678 | -0.664 |
| 61 | 0.233 | 0.239 | 0.244 | 2.455 | -2.406 | 0.692 | -0.678 |
| 62 | 0.225 | 0.230 | 0.236 | 2.491 | -2.441 | 0.706 | -0.692 |
| 63 | 0.217 | 0.222 | 0.228 | 2.528 | -2.475 | 0.721 | -0.706 |
| 64 | 0.209 | 0.215 | 0.220 | 2.564 | -2.510 | 0.735 | -0.720 |
| 65 | 0.202 | 0.207 | 0.212 | 2.600 | -2.544 | 0.750 | -0.734 |
| 66 | 0.195 | 0.200 | 0.205 | 2.636 | -2.578 | 0.765 | -0.748 |
| 67 | 0.188 | 0.193 | 0.198 | 2.671 | -2.611 | 0.779 | -0.762 |
| 68 | 0.182 | 0.187 | 0.192 | 2.707 | -2.645 | 0.794 | -0.776 |
| 69 | 0.175 | 0.180 | 0.185 | 2.742 | -2.678 | 0.809 | -0.790 |
| 70 | 0.170 | 0.174 | 0.179 | 2.777 | -2.711 | 0.824 | -0.805 |
| 71 | 0.164 | 0.168 | 0.173 | 2.811 | -2.744 | 0.839 | -0.819 |
| 72 | 0.158 | 0.163 | 0.168 | 2.846 | -2.777 | 0.854 | -0.834 |
| 73 | 0.153 | 0.157 | 0.162 | 2.880 | -2.810 | 0.870 | -0.848 |
| 74 | 0.148 | 0.152 | 0.157 | 2.915 | -2.842 | 0.885 | -0.863 |
| 75 | 0.143 | 0.147 | 0.152 | 2.949 | -2.874 | 0.900 | -0.877 |
| 76 | 0.138 | 0.143 | 0.147 | 2.983 | -2.906 | 0.916 | -0.892 |
| 77 | 0.134 | 0.138 | 0.142 | 3.016 | -2.938 | 0.931 | -0.907 |
| 78 | 0.130 | 0.134 | 0.138 | 3.050 | -2.969 | 0.947 | -0.922 |
| 79 | 0.125 | 0.129 | 0.133 | 3.083 | -3.000 | 0.963 | -0.937 |
| 80 | 0.121 | 0.125 | 0.129 | 3.116 | -3.032 | 0.978 | -0.952 |
| 81 | 0.118 | 0.121 | 0.125 | 3.149 | -3.063 | 0.994 | -0.967 |
| 82 | 0.114 | 0.117 | 0.121 | 3.182 | -3.093 | 1.010 | -0.982 |
| 83 | 0.110 | 0.114 | 0.117 | 3.214 | -3.124 | 1.026 | -0.997 |
| 84 | 0.107 | 0.110 | 0.114 | 3.247 | -3.154 | 1.042 | -1.013 |
| 85 | 0.103 | 0.107 | 0.110 | 3.279 | -3.185 | 1.059 | -1.028 |
| 86 | 0.100 | 0.104 | 0.107 | 3.311 | -3.215 | 1.075 | -1.044 |
| 87 | 0.097 | 0.100 | 0.104 | 3.343 | -3.244 | 1.091 | -1.059 |
| 88 | 0.094 | 0.097 | 0.101 | 3.375 | -3.274 | 1.108 | -1.075 |
| 89 | 0.091 | 0.094 | 0.098 | 3.406 | -3.304 | 1.124 | -1.090 |
| 90 | 0.089 | 0.092 | 0.095 | 3.437 | -3.333 | 1.141 | -1.106 |

|     |       |       |       |       |        |       |        |
|-----|-------|-------|-------|-------|--------|-------|--------|
| 91  | 0.086 | 0.089 | 0.092 | 3.469 | -3.362 | 1.157 | -1.122 |
| 92  | 0.083 | 0.086 | 0.089 | 3.500 | -3.391 | 1.174 | -1.138 |
| 93  | 0.081 | 0.084 | 0.087 | 3.530 | -3.420 | 1.191 | -1.154 |
| 94  | 0.078 | 0.081 | 0.084 | 3.561 | -3.448 | 1.208 | -1.170 |
| 95  | 0.076 | 0.079 | 0.082 | 3.591 | -3.477 | 1.225 | -1.186 |
| 96  | 0.074 | 0.077 | 0.079 | 3.622 | -3.505 | 1.242 | -1.202 |
| 97  | 0.072 | 0.074 | 0.077 | 3.652 | -3.533 | 1.259 | -1.218 |
| 98  | 0.070 | 0.072 | 0.075 | 3.682 | -3.561 | 1.276 | -1.234 |
| 99  | 0.068 | 0.070 | 0.073 | 3.712 | -3.588 | 1.293 | -1.250 |
| 100 | 0.066 | 0.068 | 0.071 | 3.741 | -3.616 | 1.311 | -1.267 |
| 101 | 0.064 | 0.066 | 0.069 | 3.771 | -3.643 | 1.328 | -1.283 |
| 102 | 0.062 | 0.064 | 0.067 | 3.800 | -3.671 | 1.346 | -1.300 |
| 103 | 0.060 | 0.063 | 0.065 | 3.829 | -3.698 | 1.363 | -1.317 |
| 104 | 0.059 | 0.061 | 0.063 | 3.858 | -3.725 | 1.381 | -1.333 |
| 105 | 0.057 | 0.059 | 0.061 | 3.887 | -3.751 | 1.399 | -1.350 |
| 106 | 0.055 | 0.058 | 0.060 | 3.916 | -3.778 | 1.417 | -1.367 |
| 107 | 0.054 | 0.056 | 0.058 | 3.944 | -3.804 | 1.435 | -1.384 |
| 108 | 0.052 | 0.054 | 0.057 | 3.973 | -3.830 | 1.453 | -1.401 |
| 109 | 0.051 | 0.053 | 0.055 | 4.001 | -3.856 | 1.471 | -1.418 |
| 110 | 0.050 | 0.052 | 0.054 | 4.029 | -3.882 | 1.489 | -1.435 |
| 111 | 0.048 | 0.050 | 0.052 | 4.057 | -3.908 | 1.507 | -1.452 |
| 112 | 0.047 | 0.049 | 0.051 | 4.084 | -3.934 | 1.525 | -1.469 |
| 113 | 0.046 | 0.048 | 0.050 | 4.112 | -3.959 | 1.544 | -1.486 |
| 114 | 0.044 | 0.046 | 0.048 | 4.139 | -3.984 | 1.562 | -1.504 |
| 115 | 0.043 | 0.045 | 0.047 | 4.167 | -4.009 | 1.581 | -1.521 |
| 116 | 0.042 | 0.044 | 0.046 | 4.194 | -4.034 | 1.599 | -1.539 |
| 117 | 0.041 | 0.043 | 0.045 | 4.221 | -4.059 | 1.618 | -1.556 |
| 118 | 0.040 | 0.042 | 0.044 | 4.247 | -4.084 | 1.637 | -1.574 |
| 119 | 0.039 | 0.041 | 0.042 | 4.274 | -4.108 | 1.656 | -1.592 |
| 120 | 0.038 | 0.040 | 0.041 | 4.300 | -4.133 | 1.675 | -1.609 |
| 121 | 0.037 | 0.039 | 0.040 | 4.327 | -4.157 | 1.694 | -1.627 |
| 122 | 0.036 | 0.038 | 0.039 | 4.353 | -4.181 | 1.713 | -1.645 |
| 123 | 0.035 | 0.037 | 0.038 | 4.379 | -4.205 | 1.732 | -1.663 |
| 124 | 0.034 | 0.036 | 0.037 | 4.405 | -4.229 | 1.751 | -1.681 |
| 125 | 0.033 | 0.035 | 0.036 | 4.431 | -4.252 | 1.771 | -1.699 |

