

Approval

Manufacturer:

Mayloon Electronic Co., Ltd.,
Flat E, 17/F Houston Ind., Bldg.,
32-40 Wang Lung St., Tsuen Wan.HK.

Customer:

| Approved By: | Checked By: | Prepared By : |
|-----------------|----------------|------------------|
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| Approved By: | Examined By: | Tested By : |
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| Company's Stamp | |
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Approval No. : HT-070531
Product : NTC THERMISTOR SENSORS
Mayloon Part No. : MHT 103 J -3435
Customer's Part No. : _____
Specifications : R25 10,000 Ω ± 5 %
B25-85 3435 °K ± 2 %
Date : _____

1) SCOPE

This specifications define ratings, dimension, insulation, climatic sequence and mechanical characteristics for **(Lead-free)** MHT type thermistor.

2) PART NO. : MHT103J-3435

3) RATING

3-1) Rated zero-power resistance R_{25} : 10 k Ω $\pm 5\%$ (at 25 $^{\circ}$ C)

3-2) B value. $B_{25/85}$: 3,435K $\pm 2\%$

*The B value is calculated using the zero-power resistance values measured at 25 $^{\circ}$ C and 85 $^{\circ}$ C.

3-3) Dissipation factor. : Approx. 2 mW/ $^{\circ}$ C (in air)

3-4) Thermal time constant. : Approx. ≤ 12 Sec (in air)

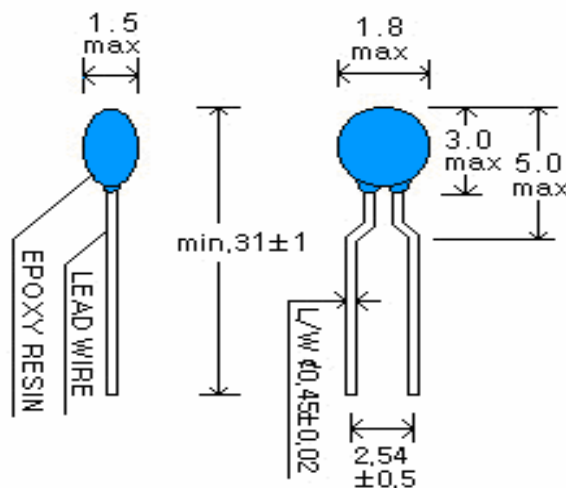
3-5) Maximum power rating. : 10 mW (at 25 $^{\circ}$ C)

3-6) Category temperature range : -30 ~ 125 $^{\circ}$ C
(=Operating temperature range)

3-7) Lead content : RoHs Compliant

3-8) Cadmium content : RoHs Compliant.

4) DIMENSIONS UNIT: mm



5) Insulation

5-1) Insulation resistance

Insulation resistance of the test samples shall be over 100MΩ when it is measured at DC 500V between coated area and lead wires.

6) Climatic test

6-1) Dry Heat

After the test samples were exposed in air at 110 °C for 1,000 hours, the change ratio of the rated zero-power resistance shall be within ±1% of the initial value.

6-2) Damp heat

After the test samples were exposed in the humidity of 95% at 40°C for 1,000 hours, the change ratio of the rated zero-power resistance shall be within ±1% of the initial value.

6-3) Cold

After the test samples were exposed in air at -30°C for 1,000 hours, the change ratio of the rated zero-power resistance shall be within ±1% of the initial value.

6-4) Humidity load

After DC 1mA current was applied to the test samples in the temperature of 40°C and the humidity of 95% for 1,000 hours, the change ratio of the rated zero-power resistance shall be within ±1% of the initial value.

6-5) Change of temperature

One cycle of the change of temperature shall be carried out in the order of the following conditions.

.Room ambient temperature.(Initial value)

.At -30°C, for 30 minutes.

.Room ambient temperature, for 3 minutes.

.At + 90°C, for 30 minutes.

.Room ambient temperature, for 3 minutes.

After 100 cycles of change of temperature, the change ratio of the rated zero-power resistance shall be within ±1% of the initial value.

6-6) High temperature load

After DC 1mA current was applied to the test samples in the temperature of 110°C for 1,000 hours, the change ratio of the rated zero-power resistance shall be within ±1% of the initial value.

7) Mechanical characteristics

7-1) Robustness of terminations

Ua: Tensile

After 2N loading weight for 3 seconds was applied to the wire terminations, there shall be no visible damage.

7-2) Free fall

After one time natural fall to a maple board from 1m high, there shall be no visible damage.

7-3) Resistance to soldering heat

After lead wire of the test samples were dipped on time within 8.5 mm from end of lead wire in solder bath at 260°C ±10% for 10 ±0.5 seconds, the change ratio of the rated zero-power resistance shall be within ±1% of the initial value.

8) R-T characteristics

PART NO. : MHT103J-3435

R25= 10KΩ±3%

B25/85=3435K±2%

| Temperature (°C) | Resistance (Ω) | | | Temp. Coef. (%/°C) | Resist. Tolerance (%) | | Temp. Tolerance (°C) | |
|------------------|----------------|--------|--------|--------------------|-----------------------|-------|----------------------|------|
| | MIN. | CENTER | MAX. | | MIN. | MAX. | MIN. | MAX. |
| -40 | 163925 | 188442 | 216084 | -5.41 | -13.01 | 14.67 | -2.71 | 2.41 |
| -39 | 155569 | 178547 | 204406 | -5.38 | -12.87 | 14.48 | -2.69 | 2.39 |
| -38 | 147684 | 169224 | 193422 | -5.35 | -12.73 | 14.30 | -2.67 | 2.38 |
| -37 | 140240 | 160438 | 183086 | -5.32 | -12.59 | 14.12 | -2.66 | 2.37 |
| -36 | 133211 | 152154 | 173357 | -5.29 | -12.45 | 13.94 | -2.64 | 2.36 |
| -35 | 126572 | 144343 | 164197 | -5.26 | -12.31 | 13.76 | -2.62 | 2.34 |
| -34 | 120299 | 136974 | 155570 | -5.22 | -12.17 | 13.58 | -2.60 | 2.33 |
| -33 | 114371 | 130020 | 147442 | -5.19 | -12.04 | 13.40 | -2.58 | 2.32 |
| -32 | 108766 | 123457 | 139782 | -5.16 | -11.90 | 13.22 | -2.56 | 2.30 |
| -31 | 103466 | 117260 | 132560 | -5.14 | -11.76 | 13.05 | -2.54 | 2.29 |
| -30 | 98453 | 111407 | 125751 | -5.11 | -11.63 | 12.87 | -2.52 | 2.28 |
| -29 | 93710 | 105878 | 119327 | -5.08 | -11.49 | 12.70 | -2.50 | 2.26 |
| -28 | 89220 | 100652 | 113266 | -5.05 | -11.36 | 12.53 | -2.48 | 2.25 |
| -27 | 84970 | 95713 | 107544 | -5.02 | -11.22 | 12.36 | -2.46 | 2.24 |
| -26 | 80945 | 91042 | 102143 | -4.99 | -11.09 | 12.19 | -2.44 | 2.22 |

| | | | | | | | | |
|-----|-------|-------|-------|-------|--------|-------|-------|------|
| -25 | 77132 | 86624 | 97041 | -4.96 | -10.96 | 12.03 | -2.42 | 2.21 |
| -24 | 73519 | 82444 | 92222 | -4.93 | -10.83 | 11.86 | -2.40 | 2.20 |
| -23 | 70094 | 78488 | 87667 | -4.90 | -10.69 | 11.69 | -2.39 | 2.18 |
| -22 | 66848 | 74743 | 83362 | -4.87 | -10.56 | 11.53 | -2.37 | 2.17 |
| -21 | 63769 | 71197 | 79291 | -4.85 | -10.43 | 11.37 | -2.35 | 2.15 |
| -20 | 60848 | 67838 | 75440 | -4.82 | -10.30 | 11.21 | -2.33 | 2.14 |
| -19 | 58077 | 64655 | 71797 | -4.79 | -10.17 | 11.05 | -2.31 | 2.12 |
| -18 | 55447 | 61638 | 68350 | -4.76 | -10.04 | 10.89 | -2.29 | 2.11 |
| -17 | 52950 | 58779 | 65086 | -4.74 | -9.92 | 10.73 | -2.27 | 2.09 |
| -16 | 50579 | 56067 | 61995 | -4.71 | -9.79 | 10.57 | -2.25 | 2.08 |
| -15 | 48327 | 53495 | 59068 | -4.68 | -9.66 | 10.42 | -2.22 | 2.06 |
| -14 | 46187 | 51054 | 56294 | -4.66 | -9.53 | 10.26 | -2.20 | 2.05 |
| -13 | 44153 | 48738 | 53666 | -4.63 | -9.41 | 10.11 | -2.18 | 2.03 |
| -12 | 42219 | 46539 | 51174 | -4.60 | -9.28 | 9.96 | -2.16 | 2.02 |
| -11 | 40381 | 44452 | 48810 | -4.58 | -9.16 | 9.81 | -2.14 | 2.00 |
| -10 | 38632 | 42468 | 46569 | -4.55 | -9.03 | 9.66 | -2.12 | 1.98 |
| -9 | 36968 | 40584 | 44442 | -4.53 | -8.91 | 9.51 | -2.10 | 1.97 |
| -8 | 35385 | 38794 | 42424 | -4.50 | -8.79 | 9.36 | -2.08 | 1.95 |
| -7 | 33878 | 37092 | 40508 | -4.47 | -8.66 | 9.21 | -2.06 | 1.94 |
| -6 | 32444 | 35473 | 38689 | -4.45 | -8.54 | 9.07 | -2.04 | 1.92 |
| -5 | 31077 | 33934 | 36961 | -4.42 | -8.42 | 8.92 | -2.02 | 1.90 |
| -4 | 29775 | 32470 | 35319 | -4.40 | -8.30 | 8.78 | -2.00 | 1.89 |
| -3 | 28535 | 31076 | 33759 | -4.37 | -8.18 | 8.63 | -1.97 | 1.87 |
| -2 | 27353 | 29750 | 32276 | -4.35 | -8.06 | 8.49 | -1.95 | 1.85 |
| -1 | 26226 | 28488 | 30866 | -4.32 | -7.94 | 8.35 | -1.93 | 1.84 |
| 0 | 25152 | 27285 | 29525 | -4.30 | -7.82 | 8.21 | -1.91 | 1.82 |
| 1 | 24127 | 26140 | 28250 | -4.28 | -7.70 | 8.07 | -1.89 | 1.80 |
| 2 | 23150 | 25049 | 27036 | -4.25 | -7.58 | 7.93 | -1.87 | 1.78 |
| 3 | 22217 | 24009 | 25880 | -4.23 | -7.46 | 7.80 | -1.84 | 1.77 |
| 4 | 21326 | 23017 | 24780 | -4.20 | -7.35 | 7.66 | -1.82 | 1.75 |
| 5 | 20476 | 22072 | 23733 | -4.18 | -7.23 | 7.52 | -1.80 | 1.73 |
| 6 | 19665 | 21171 | 22735 | -4.16 | -7.11 | 7.39 | -1.78 | 1.71 |
| 7 | 18889 | 20311 | 21784 | -4.14 | -7.00 | 7.26 | -1.75 | 1.69 |
| 8 | 18149 | 19490 | 20879 | -4.11 | -6.88 | 7.12 | -1.73 | 1.67 |
| 9 | 17441 | 18707 | 20015 | -4.09 | -6.77 | 6.99 | -1.71 | 1.66 |
| 10 | 16765 | 17960 | 19192 | -4.07 | -6.65 | 6.86 | -1.69 | 1.64 |
| 11 | 16118 | 17246 | 18407 | -4.04 | -6.54 | 6.73 | -1.66 | 1.62 |
| 12 | 15499 | 16564 | 17658 | -4.02 | -6.43 | 6.60 | -1.64 | 1.60 |
| 13 | 14908 | 15913 | 16943 | -4.00 | -6.31 | 6.47 | -1.62 | 1.58 |

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|----|-------|-------|-------|-------|-------|------|-------|------|
| 14 | 14342 | 15291 | 16261 | -3.98 | -6.20 | 6.35 | -1.60 | 1.56 |
| 15 | 13801 | 14696 | 15610 | -3.96 | -6.09 | 6.22 | -1.57 | 1.54 |
| 16 | 13283 | 14127 | 14988 | -3.93 | -5.98 | 6.09 | -1.55 | 1.52 |
| 17 | 12787 | 13584 | 14395 | -3.91 | -5.87 | 5.97 | -1.53 | 1.50 |
| 18 | 12312 | 13064 | 13828 | -3.89 | -5.76 | 5.85 | -1.50 | 1.48 |
| 19 | 11857 | 12567 | 13286 | -3.87 | -5.65 | 5.72 | -1.48 | 1.46 |
| 20 | 11421 | 12091 | 12768 | -3.85 | -5.54 | 5.60 | -1.45 | 1.44 |
| 21 | 11004 | 11636 | 12273 | -3.83 | -5.43 | 5.48 | -1.43 | 1.42 |
| 22 | 10604 | 11200 | 11800 | -3.81 | -5.32 | 5.36 | -1.41 | 1.40 |
| 23 | 10220 | 10782 | 11347 | -3.79 | -5.21 | 5.24 | -1.38 | 1.38 |
| 24 | 9853 | 10383 | 10914 | -3.77 | -5.11 | 5.12 | -1.36 | 1.36 |
| 25 | 9500 | 10000 | 10500 | -3.75 | -5.00 | 5.00 | -1.33 | 1.33 |
| 26 | 9141 | 9633 | 10126 | -3.73 | -5.11 | 5.12 | -1.37 | 1.37 |
| 27 | 8798 | 9282 | 9768 | -3.71 | -5.21 | 5.24 | -1.41 | 1.41 |
| 28 | 8469 | 8945 | 9424 | -3.69 | -5.32 | 5.35 | -1.45 | 1.44 |
| 29 | 8155 | 8622 | 9094 | -3.67 | -5.42 | 5.47 | -1.49 | 1.48 |
| 30 | 7853 | 8313 | 8777 | -3.65 | -5.53 | 5.58 | -1.53 | 1.52 |
| 31 | 7565 | 8016 | 8473 | -3.63 | -5.63 | 5.70 | -1.57 | 1.55 |
| 32 | 7288 | 7731 | 8180 | -3.61 | -5.73 | 5.81 | -1.61 | 1.59 |
| 33 | 7023 | 7458 | 7900 | -3.59 | -5.83 | 5.93 | -1.65 | 1.63 |
| 34 | 6769 | 7196 | 7630 | -3.57 | -5.93 | 6.04 | -1.69 | 1.66 |
| 35 | 6525 | 6944 | 7371 | -3.55 | -6.03 | 6.16 | -1.73 | 1.70 |
| 36 | 6291 | 6702 | 7122 | -3.53 | -6.13 | 6.27 | -1.77 | 1.74 |
| 37 | 6067 | 6470 | 6883 | -3.51 | -6.23 | 6.38 | -1.82 | 1.77 |
| 38 | 5852 | 6247 | 6653 | -3.49 | -6.33 | 6.49 | -1.86 | 1.81 |
| 39 | 5646 | 6033 | 6432 | -3.48 | -6.43 | 6.60 | -1.90 | 1.85 |
| 40 | 5447 | 5828 | 6219 | -3.46 | -6.53 | 6.71 | -1.94 | 1.89 |
| 41 | 5257 | 5630 | 6015 | -3.44 | -6.62 | 6.83 | -1.98 | 1.93 |
| 42 | 5075 | 5440 | 5818 | -3.42 | -6.72 | 6.94 | -2.03 | 1.96 |
| 43 | 4900 | 5258 | 5628 | -3.40 | -6.81 | 7.04 | -2.07 | 2.00 |
| 44 | 4731 | 5082 | 5446 | -3.39 | -6.91 | 7.15 | -2.11 | 2.04 |
| 45 | 4569 | 4913 | 5270 | -3.37 | -7.00 | 7.26 | -2.16 | 2.08 |
| 46 | 4414 | 4751 | 5101 | -3.35 | -7.10 | 7.37 | -2.20 | 2.12 |
| 47 | 4265 | 4595 | 4939 | -3.33 | -7.19 | 7.48 | -2.24 | 2.16 |
| 48 | 4121 | 4445 | 4782 | -3.32 | -7.28 | 7.59 | -2.29 | 2.20 |
| 49 | 3983 | 4300 | 4631 | -3.30 | -7.38 | 7.69 | -2.33 | 2.24 |
| 50 | 3850 | 4161 | 4485 | -3.28 | -7.47 | 7.80 | -2.38 | 2.27 |
| 51 | 3722 | 4027 | 4345 | -3.27 | -7.56 | 7.90 | -2.42 | 2.31 |
| 52 | 3600 | 3898 | 4210 | -3.25 | -7.65 | 8.01 | -2.47 | 2.35 |

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|----|------|------|------|-------|--------|-------|-------|------|
| 53 | 3481 | 3773 | 4080 | -3.23 | -7.74 | 8.12 | -2.51 | 2.39 |
| 54 | 3368 | 3654 | 3954 | -3.22 | -7.83 | 8.22 | -2.56 | 2.43 |
| 55 | 3258 | 3538 | 3833 | -3.20 | -7.92 | 8.32 | -2.60 | 2.47 |
| 56 | 3153 | 3427 | 3716 | -3.18 | -8.00 | 8.43 | -2.65 | 2.51 |
| 57 | 3051 | 3320 | 3603 | -3.17 | -8.09 | 8.53 | -2.69 | 2.55 |
| 58 | 2954 | 3217 | 3495 | -3.15 | -8.18 | 8.63 | -2.74 | 2.60 |
| 59 | 2860 | 3117 | 3390 | -3.14 | -8.26 | 8.74 | -2.79 | 2.64 |
| 60 | 2769 | 3021 | 3288 | -3.12 | -8.35 | 8.84 | -2.83 | 2.68 |
| 61 | 2682 | 2929 | 3191 | -3.10 | -8.44 | 8.94 | -2.88 | 2.72 |
| 62 | 2598 | 2840 | 3096 | -3.09 | -8.52 | 9.04 | -2.93 | 2.76 |
| 63 | 2516 | 2753 | 3005 | -3.07 | -8.61 | 9.14 | -2.98 | 2.80 |
| 64 | 2438 | 2670 | 2917 | -3.06 | -8.69 | 9.24 | -3.02 | 2.84 |
| 65 | 2363 | 2590 | 2832 | -3.04 | -8.77 | 9.34 | -3.07 | 2.88 |
| 66 | 2290 | 2513 | 2750 | -3.03 | -8.86 | 9.44 | -3.12 | 2.93 |
| 67 | 2220 | 2438 | 2671 | -3.01 | -8.94 | 9.54 | -3.17 | 2.97 |
| 68 | 2152 | 2366 | 2594 | -3.00 | -9.02 | 9.64 | -3.22 | 3.01 |
| 69 | 2087 | 2296 | 2520 | -2.98 | -9.10 | 9.74 | -3.27 | 3.05 |
| 70 | 2024 | 2229 | 2448 | -2.97 | -9.18 | 9.84 | -3.32 | 3.10 |
| 71 | 1963 | 2164 | 2379 | -2.95 | -9.26 | 9.93 | -3.37 | 3.14 |
| 72 | 1905 | 2101 | 2312 | -2.94 | -9.34 | 10.03 | -3.41 | 3.18 |
| 73 | 1848 | 2040 | 2247 | -2.92 | -9.42 | 10.13 | -3.46 | 3.22 |
| 74 | 1793 | 1982 | 2184 | -2.91 | -9.50 | 10.22 | -3.52 | 3.27 |
| 75 | 1741 | 1925 | 2124 | -2.89 | -9.58 | 10.32 | -3.57 | 3.31 |
| 76 | 1690 | 1870 | 2065 | -2.88 | -9.66 | 10.42 | -3.62 | 3.35 |
| 77 | 1640 | 1817 | 2008 | -2.87 | -9.74 | 10.51 | -3.67 | 3.40 |
| 78 | 1593 | 1766 | 1953 | -2.85 | -9.82 | 10.61 | -3.72 | 3.44 |
| 79 | 1547 | 1717 | 1900 | -2.84 | -9.89 | 10.70 | -3.77 | 3.49 |
| 80 | 1502 | 1669 | 1849 | -2.82 | -9.97 | 10.79 | -3.82 | 3.53 |
| 81 | 1459 | 1622 | 1799 | -2.81 | -10.04 | 10.89 | -3.87 | 3.57 |
| 82 | 1418 | 1577 | 1751 | -2.80 | -10.12 | 10.98 | -3.93 | 3.62 |
| 83 | 1378 | 1534 | 1704 | -2.78 | -10.20 | 11.07 | -3.98 | 3.66 |
| 84 | 1339 | 1492 | 1659 | -2.77 | -10.27 | 11.17 | -4.03 | 3.71 |
| 85 | 1301 | 1451 | 1615 | -2.76 | -10.34 | 11.26 | -4.08 | 3.75 |
| 86 | 1265 | 1412 | 1572 | -2.74 | -10.42 | 11.35 | -4.14 | 3.80 |
| 87 | 1230 | 1374 | 1531 | -2.73 | -10.49 | 11.44 | -4.19 | 3.84 |
| 88 | 1196 | 1337 | 1491 | -2.72 | -10.57 | 11.53 | -4.24 | 3.89 |
| 89 | 1163 | 1301 | 1452 | -2.70 | -10.64 | 11.62 | -4.30 | 3.93 |
| 90 | 1131 | 1267 | 1415 | -2.69 | -10.71 | 11.71 | -4.35 | 3.98 |
| 91 | 1100 | 1233 | 1379 | -2.68 | -10.78 | 11.80 | -4.41 | 4.02 |

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|-----|------|------|------|-------|--------|-------|-------|------|
| 92 | 1070 | 1200 | 1343 | -2.67 | -10.85 | 11.89 | -4.46 | 4.07 |
| 93 | 1041 | 1169 | 1309 | -2.65 | -10.92 | 11.98 | -4.52 | 4.12 |
| 94 | 1013 | 1138 | 1276 | -2.64 | -11.00 | 12.07 | -4.57 | 4.16 |
| 95 | 986 | 1109 | 1244 | -2.63 | -11.07 | 12.16 | -4.63 | 4.21 |
| 96 | 960 | 1080 | 1212 | -2.62 | -11.14 | 12.25 | -4.68 | 4.26 |
| 97 | 934 | 1052 | 1182 | -2.60 | -11.21 | 12.34 | -4.74 | 4.30 |
| 98 | 910 | 1025 | 1153 | -2.59 | -11.27 | 12.43 | -4.79 | 4.35 |
| 99 | 886 | 999 | 1124 | -2.58 | -11.34 | 12.51 | -4.85 | 4.40 |
| 100 | 863 | 974 | 1096 | -2.57 | -11.41 | 12.60 | -4.91 | 4.44 |
| 101 | 840 | 949 | 1070 | -2.56 | -11.48 | 12.69 | -4.96 | 4.49 |
| 102 | 818 | 925 | 1043 | -2.54 | -11.55 | 12.77 | -5.02 | 4.54 |
| 103 | 797 | 902 | 1018 | -2.53 | -11.61 | 12.86 | -5.08 | 4.59 |
| 104 | 777 | 880 | 993 | -2.52 | -11.68 | 12.94 | -5.14 | 4.64 |
| 105 | 757 | 858 | 969 | -2.51 | -11.75 | 13.03 | -5.19 | 4.68 |
| 106 | 738 | 836 | 946 | -2.50 | -11.81 | 13.11 | -5.25 | 4.73 |
| 107 | 719 | 816 | 924 | -2.49 | -11.88 | 13.20 | -5.31 | 4.78 |
| 108 | 701 | 796 | 902 | -2.47 | -11.95 | 13.28 | -5.37 | 4.83 |
| 109 | 683 | 777 | 880 | -2.46 | -12.01 | 13.37 | -5.43 | 4.88 |
| 110 | 666 | 758 | 860 | -2.45 | -12.08 | 13.45 | -5.49 | 4.93 |
| 111 | 650 | 739 | 839 | -2.44 | -12.14 | 13.53 | -5.55 | 4.97 |
| 112 | 634 | 722 | 820 | -2.43 | -12.20 | 13.62 | -5.61 | 5.02 |
| 113 | 618 | 704 | 801 | -2.42 | -12.27 | 13.70 | -5.67 | 5.07 |
| 114 | 603 | 688 | 782 | -2.41 | -12.33 | 13.78 | -5.73 | 5.12 |
| 115 | 588 | 671 | 764 | -2.40 | -12.39 | 13.86 | -5.79 | 5.17 |
| 116 | 574 | 655 | 747 | -2.39 | -12.46 | 13.94 | -5.85 | 5.22 |
| 117 | 560 | 640 | 730 | -2.37 | -12.52 | 14.03 | -5.91 | 5.27 |
| 118 | 546 | 625 | 713 | -2.36 | -12.58 | 14.11 | -5.97 | 5.32 |
| 119 | 533 | 610 | 697 | -2.35 | -12.64 | 14.19 | -6.03 | 5.37 |
| 120 | 520 | 596 | 681 | -2.34 | -12.71 | 14.27 | -6.09 | 5.42 |
| 121 | 508 | 582 | 666 | -2.33 | -12.77 | 14.35 | -6.15 | 5.47 |
| 122 | 496 | 569 | 651 | -2.32 | -12.83 | 14.43 | -6.21 | 5.52 |
| 123 | 484 | 556 | 637 | -2.31 | -12.89 | 14.51 | -6.28 | 5.58 |
| 124 | 473 | 543 | 623 | -2.30 | -12.95 | 14.59 | -6.34 | 5.63 |
| 125 | 462 | 531 | 609 | -2.29 | -13.01 | 14.67 | -6.40 | 5.68 |