

产品规格书

RoHS

Specification For Approval

(第 1 次送样 1st Samples)

客 户 Cust.:

名 称 Name : 温度传感器 NTC Sensor

型 号 P/N : CWFC283F3950F133CT

| | | | | | |
|----|------------|----|------------|----|------------|
| 拟制 | 李颖 | 审查 | 肖芳 | 批准 | 刘龙 |
| 日期 | 2022.03.17 | 日期 | 2022.03.17 | 日期 | 2022.03.17 |

客户承认 Cust. Confirmation

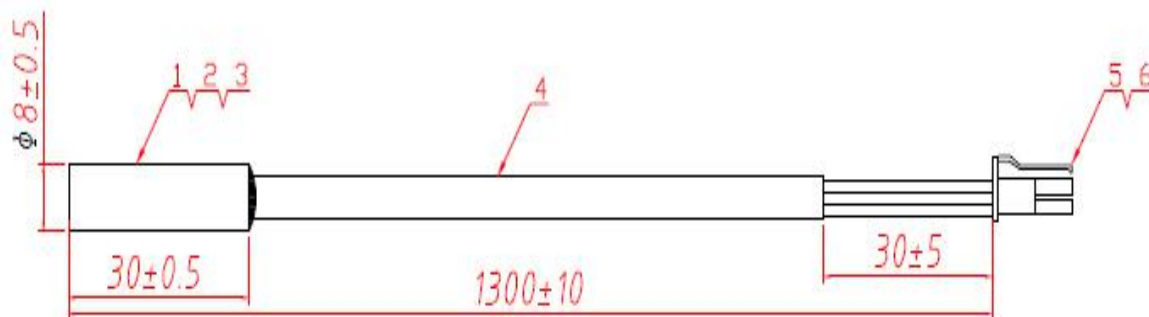
兹同意此规格书作为我公司_____系列传感器的
验收标准. Hereby confirm specification is _____ 's
accept standard of NTC Sensor.

工程 R&D _____ 品质 QA _____ 采购 Purchaser _____

2.目录 Content

| NO. | 项目 Item | 备注 Remark |
|-----|------------------------------------|-----------|
| 1 | 封面 (cover) | |
| 2 | 目录 (Catalog) | |
| 3 | 修改记录 (Modify record) | |
| 4 | 图纸 (Drawing) | |
| 5 | 产品规格 (Product specifications) | |
| 6 | 检验规则 (Inspection rules) | |
| 7 | 机械性能 (Mechanical properties) | |
| 8 | 可靠性试验(Reliability test) | |
| 9 | 产品使用条件(Product service conditions) | |
| 10 | 储存条件(Storage Conditions) | |
| 11 | R-T 阻值表(R-T data) | |

4. 图纸 Drawing :



| 序号 Code | 物料名称 Name | 物料规格 Specification | 数量 QTY |
|---------|----------------------|--|--------|
| 1 | NTC | R25°C=2.8K±1% B25/50=3950±1% | 1 |
| 2 | 塑料外壳 Plastic housing | Ø8x30 白色塑胶 White plastic | 1 |
| 3 | 环氧树脂 Epoxy resin | 白色 White | / |
| 4 | 线材 Cable | UL2464 24#白色塑胶护套线 White Sheathed cable | 1 |
| 5 | 端子 Terminal | 5556-PT | 2 |
| 6 | 胶壳 Plastic Shell | 5556-2P 透明 Transparent | 1 |

技术要求

- 1.外观无污渍，破损；各零部件使用正确，零部件装配良好。
- 2.热敏电阻 R25°C=2.8K±1% B25/50=3950±1%
- 3.产品绝缘耐电压测试： 1800VAC,5Sec,2mA 无击穿现象发生
- 4.在恒温油槽中，耗散系数≥2.5mW/°C
- 6.静止在 25°C 空气中，额定功率:150mW
- 7.符合 ROHS 要求

5.产品规格 Part Number :

CWF C 283 F 3950 133 CT

(一) (二) (三) (四) (五) (六) (七)

(一) NTC 温度传感器。 (NTC Temp sensor)

(二) 传感头封装形式及尺寸。 (Dimensions & housing of Sensor)

A) 环氧树脂包封

(Packed with epoxy resin)

B) 铝壳、铜壳、不锈钢壳等封装。

(Packed with shell of aluminium ,copper,stainless,steel and so on)

C) 塑料壳封装。

(Packed with plastic)

D) 加固定金属片。

(Fixed sheet metal added)

E) 特殊形式封装。

(Special packed shape)

(三) 标称电阻值 R25。 (The Rated Resistance R25=2.8K±1%)

(四) 标称电阻值精度代号。 F:±1% G:±2% H:±3% J:±5%

(The Precision Symbol of Rated Resistance。 F:±1% G:±2% H:±3% J:±5%)

(五) B 值(25/50°C)为 3950K。 (B value (25/50°C) is 3950K.)

(六) 线长 Cable length 133= 1.3*103=1300mm

(七) 线尾：剥线打端子 Terminal: CT: stripped and crimp terminal

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6. 出厂检验 Factory outgoing inspection :

| NO. | 项目 Item | 检验方法 Test method | 性能要求 performance requirement | 检验水平 Inspection level | AQL |
|------|---|---|--|-----------------------------|-----|
| 6-1. | 外观检验 Inspection level | 目视检查 (Visual inspection) | 符合 4.0 图纸要求 (Meet the requirements of the 4 drawing) | 一般 2 级 | 1.0 |
| 6-2. | 耐压测试 Withstand voltage test | 1800VAC,5S.2mA | 无闪烁、击穿现象 (No flicker, breakdown phenomenon) | 5PCS | 0/1 |
| 6-3. | R25°C 阻值测试 R25°C test | 将待测品置于 25°C 的高精度油槽内稳定后测量数据 | 2.8K Ω ±1% | 5PCS | 0/1 |
| 6-4. | B 值测试 (25/50) B value test (25/50) | 将待测品置于 25°C、50°C 高精度油槽内稳定后测量 | 3950K±1% | 5PCS | 0/1 |
| 6-5. | 尺寸 size | 用卡尺及直尺测量 (Measured by caliper and ruler) | 符合 4.0 图纸要求 (Meet the requirements of the 4 drawing) | 5PCS | 0.4 |

7、机械性能 Mechanical behavior :

| 序号 No. | 项目 Item | 技术要求 Technical requirements | 测试条件及方法 Test conditions and method |
|-----------|-------------------|---|---|
| 7-1. | 拉力测试 Pull test | 树脂、电线粘接处不开裂, 不变形、无损伤 No cracking, no deformation, no damage to resin and wire bonding | 2kg/20N |
| 7-2. | 落地测试 Drop test | No visible damage | 在 1 米的高度, 让产品做自由落体运动, 下落到 10mm 厚的橡木板上, 5 次。At a height of 1 meter, let the product do a free fall motion and fall onto a 10mm thick oak board for 5 times. |

8、可靠性试验 Reliability Test :

| 序号 No. | 项目 Item | 技术要求 Technical requirements | 测试条件及方法 Test conditions and method |
|-----------|---|--------------------------------|---|
| 8-1. | 高温试验 High temperature test | $\Delta R/R_{25} \leq \pm 3\%$ | 125±5℃ , 1000±24h (参照 IEC60068-2-2/GB2423.2 试验 Refer to IEC60068-2-2/GB2423.2 test) |
| 8-2. | 低温试验 Low temperature test | $\Delta R/R_{25} \leq \pm 3\%$ | -30±5℃ , 1000±24h (参照 IEC60068-2-1/GB2423.1 试验 Refer to IEC60068-2-1/GB2423.1 test) |
| 8-3. | 耐潮湿试验 Moisture resistance test | $\Delta R/R_{25} \leq \pm 3\%$ | 40±2℃, 90%-95%RH 环境下放置 1000±24h 40±2℃, 90%-95%RH environment for 1000±24h (参照 IEC60068-2-3/GB2423.3 试验 Refer to IEC60068-2-3/GB2423.3 test) |
| 8-4. | 温度冷热循环试验 Temperature cooling and heating cycle test | $\Delta R/R_{25} \leq \pm 3\%$ | - 30℃×30min→25℃×5min→125℃×30min→25℃×5min, 反复 10 次 Repeat 10 times (参照 IEC60068-2-14/GB2423.22 试验 Refer to IEC60068-2-14/GB2423.22 test) |

9.产品使用条件 Product use conditions :

9.1 产品使用的最大工作温度，最大功率等，均依照规格书要求作业，不可超出规格书之范围；

9.1 The max working temperature, max power, etc. used by the product shall be operated in accordance with the requirements of the specification, and shall not exceed the scope of the specification;

9.2.产品移动、安装必须轻拿轻放，不可用力拉动

9.2. Product movement and installation must be handled with care, and cannot be pulled with force

9.3.外壳发生变形、氧化等现象时，不要使用，以免影响感温精度

9.3. When the shell is deformed, oxidized, etc., do not use it, so as not to affect the temperature sensing accuracy

9.4.产品外观发现变形、破损时，不可使用，以免影响电性能

9.4. When the appearance of the product is found to be deformed or damaged, do not use it, so as not to affect the electrical performance

9.5.在操作温度范围内，应尽量避免过于激烈的温度变化

9.5. Within the operating temperature range, excessive temperature changes should be avoided as much as possible

9.6.不可施加过度振动的压力

9.6. Do not apply excessive vibration pressure

9.7.避免过度拉伸,弯曲导线

9.7. Avoid overstretching and bending wires

9.8.不要使用在有腐蚀性气体(CO₂,NH₃,Sox,NOx)超出指定的条件。不要使用在电解、盐、酸、碱性和有机溶剂超出指定的条件(看下要不要修改下原文)

9.8. Do not use in corrosive gases (CO₂, NH₃, Sox, Nox) beyond the specified conditions. Do not use in electrolysis, salt, acid, alkali and organic solvents beyond the specified conditions (see if you want to modify the original text)

9.9.不要使用在超出规格要求的高温,高湿及其它带腐蚀性环境中

9.9. Do not use in high temperature, high humidity and other corrosive environments that exceed the specifications

9.10.通过负温度系数温度传感器的电流会引起组件自身发热而产生测量误差，因此需在使用前将此因素考虑在内。

9.10. The current passing through the negative temperature coefficient temperature sensor will cause the components to heat up and cause measurement errors, so this factor should be taken into account before use.

9.11 如果有任何不清楚的地方,请咨询到我们公司的销售主管或工程师。

9.11 If there is any unclear place, please consult our company's sales supervisor or engineer.

10.储存条件(Storage Conditions) :

10.1.储存温度(Storage Temperature) : -10°C ~ +40°C

10.2.相对湿度(Relative Humidity) : ≤75%RH

10.3 远离腐蚀和阳光照射(Keep away from corrosive atmosphere and sunlight)

10.4 储存时间(Storage time) : 1 年(1 years)

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R25=2.8K Ω Tolerance: \pm 1% B25/50=3950K B25/85=3985K

| Temperature ($^{\circ}$ C) | Resistance(K Ω) | | | Resistance tolerance(%) | | Temperature tolerance($^{\circ}$ C) | |
|--------------------------------|-------------------------|---------|---------|----------------------------|-------------|---|-------------|
| | Min. | Cen. | Max. | Δ R | $-\Delta$ R | Δ T | $-\Delta$ T |
| -55 | 246.765 | 260.820 | 275.647 | 5.684 | -5.388 | 0.733 | -0.695 |
| -54 | 230.832 | 243.815 | 257.502 | 5.613 | -5.324 | 0.729 | -0.692 |
| -53 | 215.778 | 227.759 | 240.381 | 5.541 | -5.260 | 0.725 | -0.688 |
| -52 | 201.615 | 212.663 | 224.295 | 5.469 | -5.195 | 0.721 | -0.685 |
| -51 | 188.333 | 198.517 | 209.231 | 5.396 | -5.130 | 0.717 | -0.681 |
| -50 | 175.910 | 185.295 | 195.160 | 5.324 | -5.064 | 0.712 | -0.678 |
| -49 | 164.313 | 172.960 | 182.044 | 5.251 | -4.999 | 0.708 | -0.674 |
| -48 | 153.504 | 161.470 | 169.834 | 5.179 | -4.933 | 0.704 | -0.670 |
| -47 | 143.438 | 150.779 | 158.480 | 5.107 | -4.868 | 0.699 | -0.667 |
| -46 | 134.071 | 140.836 | 147.929 | 5.035 | -4.803 | 0.695 | -0.663 |
| -45 | 125.359 | 131.595 | 138.128 | 4.964 | -4.739 | 0.690 | -0.659 |
| -44 | 117.257 | 123.007 | 129.027 | 4.893 | -4.674 | 0.686 | -0.655 |
| -43 | 109.723 | 115.026 | 120.574 | 4.823 | -4.610 | 0.681 | -0.651 |
| -42 | 102.716 | 107.609 | 112.724 | 4.753 | -4.547 | 0.676 | -0.647 |
| -41 | 96.198 | 100.714 | 105.432 | 4.684 | -4.484 | 0.671 | -0.643 |
| -40 | 90.133 | 94.302 | 98.654 | 4.615 | -4.421 | 0.667 | -0.638 |
| -39 | 84.487 | 88.337 | 92.354 | 4.546 | -4.358 | 0.662 | -0.634 |
| -38 | 79.229 | 82.786 | 86.495 | 4.479 | -4.296 | 0.657 | -0.630 |
| -37 | 74.331 | 77.618 | 81.042 | 4.411 | -4.234 | 0.652 | -0.625 |
| -36 | 69.765 | 72.803 | 75.967 | 4.344 | -4.173 | 0.647 | -0.621 |
| -35 | 65.507 | 68.316 | 71.239 | 4.278 | -4.112 | 0.641 | -0.616 |
| -34 | 61.534 | 64.132 | 66.834 | 4.212 | -4.051 | 0.636 | -0.612 |
| -33 | 57.825 | 60.229 | 62.727 | 4.147 | -3.991 | 0.631 | -0.607 |
| -32 | 54.361 | 56.585 | 58.895 | 4.082 | -3.931 | 0.626 | -0.602 |
| -31 | 51.124 | 53.183 | 55.320 | 4.017 | -3.872 | 0.620 | -0.598 |
| -30 | 48.098 | 50.004 | 51.981 | 3.953 | -3.812 | 0.615 | -0.593 |
| -29 | 45.268 | 47.033 | 48.863 | 3.890 | -3.754 | 0.609 | -0.588 |
| -28 | 42.619 | 44.255 | 45.948 | 3.826 | -3.695 | 0.604 | -0.583 |
| -27 | 40.141 | 41.656 | 43.224 | 3.763 | -3.637 | 0.598 | -0.578 |
| -26 | 37.819 | 39.223 | 40.675 | 3.701 | -3.579 | 0.592 | -0.573 |
| -25 | 35.644 | 36.946 | 38.290 | 3.639 | -3.521 | 0.587 | -0.568 |
| -24 | 33.606 | 34.812 | 36.058 | 3.577 | -3.463 | 0.581 | -0.562 |
| -23 | 31.695 | 32.813 | 33.967 | 3.516 | -3.406 | 0.575 | -0.557 |
| -22 | 29.903 | 30.940 | 32.009 | 3.455 | -3.350 | 0.569 | -0.552 |
| -21 | 28.222 | 29.183 | 30.174 | 3.395 | -3.293 | 0.563 | -0.546 |
| -20 | 26.644 | 27.535 | 28.454 | 3.335 | -3.237 | 0.557 | -0.541 |
| -19 | 25.162 | 25.989 | 26.841 | 3.275 | -3.181 | 0.551 | -0.535 |
| -18 | 23.771 | 24.538 | 25.327 | 3.216 | -3.125 | 0.545 | -0.529 |

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|-----|--------|--------|--------|-------|--------|-------|--------|
| -17 | 22.464 | 23.176 | 23.907 | 3.157 | -3.070 | 0.539 | -0.524 |
| -16 | 21.236 | 21.896 | 22.575 | 3.098 | -3.015 | 0.532 | -0.518 |
| -15 | 20.081 | 20.694 | 21.323 | 3.040 | -2.960 | 0.526 | -0.512 |
| -14 | 18.996 | 19.564 | 20.148 | 2.982 | -2.906 | 0.520 | -0.506 |
| -13 | 17.975 | 18.503 | 19.044 | 2.925 | -2.851 | 0.513 | -0.500 |
| -12 | 17.014 | 17.504 | 18.006 | 2.868 | -2.797 | 0.507 | -0.494 |
| -11 | 16.110 | 16.565 | 17.031 | 2.811 | -2.744 | 0.500 | -0.488 |
| -10 | 15.259 | 15.681 | 16.113 | 2.755 | -2.691 | 0.494 | -0.482 |
| -9 | 14.458 | 14.850 | 15.250 | 2.699 | -2.638 | 0.487 | -0.476 |
| -8 | 13.703 | 14.067 | 14.439 | 2.643 | -2.585 | 0.480 | -0.470 |
| -7 | 12.992 | 13.329 | 13.674 | 2.588 | -2.532 | 0.473 | -0.463 |
| -6 | 12.321 | 12.635 | 12.955 | 2.533 | -2.480 | 0.467 | -0.457 |
| -5 | 11.690 | 11.980 | 12.277 | 2.478 | -2.428 | 0.460 | -0.450 |
| -4 | 11.094 | 11.364 | 11.639 | 2.424 | -2.377 | 0.453 | -0.444 |
| -3 | 10.531 | 10.782 | 11.038 | 2.371 | -2.325 | 0.446 | -0.437 |
| -2 | 10.001 | 10.234 | 10.471 | 2.317 | -2.274 | 0.439 | -0.430 |
| -1 | 9.500 | 9.716 | 9.936 | 2.264 | -2.224 | 0.431 | -0.424 |
| 0 | 9.040 | 9.241 | 9.445 | 2.213 | -2.175 | 0.424 | -0.417 |
| 1 | 8.581 | 8.767 | 8.956 | 2.159 | -2.123 | 0.417 | -0.410 |
| 2 | 8.159 | 8.332 | 8.507 | 2.107 | -2.073 | 0.410 | -0.403 |
| 3 | 7.760 | 7.921 | 8.083 | 2.055 | -2.024 | 0.402 | -0.396 |
| 4 | 7.383 | 7.532 | 7.683 | 2.004 | -1.974 | 0.395 | -0.389 |
| 5 | 7.027 | 7.165 | 7.305 | 1.953 | -1.925 | 0.387 | -0.382 |
| 6 | 6.690 | 6.818 | 6.947 | 1.902 | -1.877 | 0.380 | -0.375 |
| 7 | 6.371 | 6.489 | 6.610 | 1.852 | -1.828 | 0.372 | -0.367 |
| 8 | 6.069 | 6.179 | 6.290 | 1.802 | -1.780 | 0.365 | -0.360 |
| 9 | 5.783 | 5.885 | 5.988 | 1.753 | -1.732 | 0.357 | -0.353 |
| 10 | 5.512 | 5.606 | 5.702 | 1.703 | -1.685 | 0.349 | -0.345 |
| 11 | 5.255 | 5.343 | 5.431 | 1.654 | -1.637 | 0.341 | -0.338 |
| 12 | 5.012 | 5.093 | 5.175 | 1.606 | -1.590 | 0.333 | -0.330 |
| 13 | 4.782 | 4.857 | 4.932 | 1.557 | -1.543 | 0.325 | -0.322 |
| 14 | 4.563 | 4.633 | 4.703 | 1.509 | -1.497 | 0.317 | -0.314 |
| 15 | 4.356 | 4.420 | 4.485 | 1.462 | -1.451 | 0.309 | -0.307 |
| 16 | 4.159 | 4.218 | 4.278 | 1.414 | -1.405 | 0.301 | -0.299 |
| 17 | 3.972 | 4.027 | 4.082 | 1.367 | -1.359 | 0.292 | -0.291 |
| 18 | 3.795 | 3.845 | 3.896 | 1.321 | -1.313 | 0.284 | -0.282 |
| 19 | 3.627 | 3.673 | 3.720 | 1.274 | -1.268 | 0.275 | -0.274 |
| 20 | 3.467 | 3.509 | 3.553 | 1.228 | -1.223 | 0.267 | -0.266 |
| 21 | 3.314 | 3.354 | 3.394 | 1.182 | -1.178 | 0.258 | -0.257 |
| 22 | 3.170 | 3.206 | 3.243 | 1.137 | -1.134 | 0.248 | -0.248 |
| 23 | 3.032 | 3.066 | 3.099 | 1.091 | -1.089 | 0.238 | -0.238 |
| 24 | 2.902 | 2.932 | 2.963 | 1.046 | -1.045 | 0.225 | -0.224 |

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|----|-------|-------|-------|-------|--------|-------|--------|
| 25 | 2.772 | 2.800 | 2.828 | 1.000 | -1.000 | 0.216 | -0.216 |
| 26 | 2.657 | 2.685 | 2.713 | 1.042 | -1.041 | 0.249 | -0.249 |
| 27 | 2.542 | 2.570 | 2.598 | 1.086 | -1.084 | 0.255 | -0.255 |
| 28 | 2.433 | 2.460 | 2.488 | 1.130 | -1.127 | 0.265 | -0.264 |
| 29 | 2.329 | 2.356 | 2.384 | 1.174 | -1.170 | 0.276 | -0.275 |
| 30 | 2.230 | 2.257 | 2.284 | 1.217 | -1.212 | 0.287 | -0.286 |
| 31 | 2.135 | 2.163 | 2.190 | 1.261 | -1.255 | 0.299 | -0.297 |
| 32 | 2.046 | 2.073 | 2.100 | 1.304 | -1.297 | 0.310 | -0.309 |
| 33 | 1.960 | 1.987 | 2.013 | 1.346 | -1.338 | 0.322 | -0.320 |
| 34 | 1.879 | 1.905 | 1.931 | 1.389 | -1.380 | 0.334 | -0.332 |
| 35 | 1.801 | 1.827 | 1.853 | 1.431 | -1.421 | 0.346 | -0.344 |
| 36 | 1.727 | 1.753 | 1.778 | 1.474 | -1.462 | 0.359 | -0.356 |
| 37 | 1.656 | 1.682 | 1.707 | 1.516 | -1.503 | 0.371 | -0.368 |
| 38 | 1.589 | 1.614 | 1.639 | 1.557 | -1.543 | 0.383 | -0.380 |
| 39 | 1.525 | 1.549 | 1.574 | 1.599 | -1.583 | 0.396 | -0.392 |
| 40 | 1.463 | 1.487 | 1.512 | 1.640 | -1.623 | 0.408 | -0.404 |
| 41 | 1.405 | 1.429 | 1.453 | 1.681 | -1.663 | 0.421 | -0.416 |
| 42 | 1.349 | 1.372 | 1.396 | 1.722 | -1.703 | 0.434 | -0.429 |
| 43 | 1.295 | 1.318 | 1.342 | 1.763 | -1.742 | 0.447 | -0.441 |
| 44 | 1.244 | 1.267 | 1.290 | 1.803 | -1.781 | 0.459 | -0.454 |
| 45 | 1.196 | 1.218 | 1.240 | 1.843 | -1.820 | 0.472 | -0.466 |
| 46 | 1.149 | 1.171 | 1.193 | 1.883 | -1.858 | 0.486 | -0.479 |
| 47 | 1.105 | 1.126 | 1.148 | 1.923 | -1.897 | 0.499 | -0.492 |
| 48 | 1.062 | 1.083 | 1.104 | 1.963 | -1.935 | 0.512 | -0.505 |
| 49 | 1.021 | 1.042 | 1.063 | 2.002 | -1.973 | 0.525 | -0.517 |
| 50 | 0.983 | 1.003 | 1.023 | 2.041 | -2.010 | 0.539 | -0.530 |
| 51 | 0.945 | 0.965 | 0.985 | 2.080 | -2.048 | 0.552 | -0.543 |
| 52 | 0.910 | 0.929 | 0.949 | 2.119 | -2.085 | 0.566 | -0.556 |
| 53 | 0.876 | 0.895 | 0.914 | 2.158 | -2.122 | 0.579 | -0.570 |
| 54 | 0.843 | 0.862 | 0.881 | 2.196 | -2.159 | 0.593 | -0.583 |
| 55 | 0.812 | 0.830 | 0.849 | 2.234 | -2.195 | 0.607 | -0.596 |
| 56 | 0.782 | 0.800 | 0.818 | 2.272 | -2.232 | 0.621 | -0.609 |
| 57 | 0.753 | 0.771 | 0.789 | 2.310 | -2.268 | 0.635 | -0.623 |
| 58 | 0.726 | 0.743 | 0.760 | 2.348 | -2.304 | 0.649 | -0.636 |
| 59 | 0.699 | 0.716 | 0.733 | 2.385 | -2.339 | 0.663 | -0.650 |
| 60 | 0.674 | 0.691 | 0.707 | 2.422 | -2.375 | 0.677 | -0.664 |
| 61 | 0.650 | 0.666 | 0.683 | 2.459 | -2.410 | 0.691 | -0.677 |
| 62 | 0.627 | 0.643 | 0.659 | 2.496 | -2.445 | 0.705 | -0.691 |
| 63 | 0.605 | 0.620 | 0.636 | 2.533 | -2.480 | 0.720 | -0.705 |
| 64 | 0.583 | 0.599 | 0.614 | 2.569 | -2.514 | 0.734 | -0.719 |
| 65 | 0.563 | 0.578 | 0.593 | 2.605 | -2.549 | 0.749 | -0.733 |
| 66 | 0.543 | 0.558 | 0.573 | 2.641 | -2.583 | 0.764 | -0.747 |

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|-----|-------|-------|-------|-------|--------|-------|--------|
| 67 | 0.525 | 0.539 | 0.553 | 2.677 | -2.617 | 0.778 | -0.761 |
| 68 | 0.507 | 0.520 | 0.535 | 2.712 | -2.651 | 0.793 | -0.775 |
| 69 | 0.489 | 0.503 | 0.517 | 2.748 | -2.684 | 0.808 | -0.789 |
| 70 | 0.473 | 0.486 | 0.499 | 2.783 | -2.717 | 0.823 | -0.804 |
| 71 | 0.457 | 0.470 | 0.483 | 2.818 | -2.750 | 0.838 | -0.818 |
| 72 | 0.441 | 0.454 | 0.467 | 2.853 | -2.783 | 0.853 | -0.833 |
| 73 | 0.427 | 0.439 | 0.452 | 2.887 | -2.816 | 0.869 | -0.847 |
| 74 | 0.412 | 0.425 | 0.437 | 2.922 | -2.848 | 0.884 | -0.862 |
| 75 | 0.399 | 0.411 | 0.423 | 2.956 | -2.881 | 0.899 | -0.876 |
| 76 | 0.386 | 0.397 | 0.409 | 2.990 | -2.913 | 0.915 | -0.891 |
| 77 | 0.373 | 0.384 | 0.396 | 3.024 | -2.944 | 0.930 | -0.906 |
| 78 | 0.361 | 0.372 | 0.384 | 3.057 | -2.976 | 0.946 | -0.921 |
| 79 | 0.349 | 0.360 | 0.371 | 3.091 | -3.008 | 0.962 | -0.936 |
| 80 | 0.338 | 0.349 | 0.360 | 3.124 | -3.039 | 0.977 | -0.951 |
| 81 | 0.327 | 0.338 | 0.348 | 3.157 | -3.070 | 0.993 | -0.966 |
| 82 | 0.317 | 0.327 | 0.338 | 3.190 | -3.101 | 1.009 | -0.981 |
| 83 | 0.307 | 0.317 | 0.327 | 3.222 | -3.131 | 1.025 | -0.996 |
| 84 | 0.297 | 0.307 | 0.317 | 3.255 | -3.162 | 1.041 | -1.012 |
| 85 | 0.288 | 0.298 | 0.308 | 3.287 | -3.192 | 1.057 | -1.027 |
| 86 | 0.279 | 0.289 | 0.298 | 3.319 | -3.222 | 1.074 | -1.042 |
| 87 | 0.271 | 0.280 | 0.289 | 3.351 | -3.252 | 1.090 | -1.058 |
| 88 | 0.262 | 0.271 | 0.280 | 3.383 | -3.282 | 1.107 | -1.073 |
| 89 | 0.254 | 0.263 | 0.272 | 3.414 | -3.311 | 1.123 | -1.089 |
| 90 | 0.247 | 0.255 | 0.264 | 3.446 | -3.341 | 1.140 | -1.105 |
| 91 | 0.239 | 0.248 | 0.256 | 3.477 | -3.370 | 1.156 | -1.121 |
| 92 | 0.232 | 0.240 | 0.249 | 3.508 | -3.399 | 1.173 | -1.136 |
| 93 | 0.225 | 0.233 | 0.241 | 3.539 | -3.428 | 1.190 | -1.152 |
| 94 | 0.219 | 0.226 | 0.234 | 3.570 | -3.456 | 1.207 | -1.168 |
| 95 | 0.212 | 0.220 | 0.228 | 3.600 | -3.485 | 1.224 | -1.184 |
| 96 | 0.206 | 0.213 | 0.221 | 3.631 | -3.513 | 1.241 | -1.200 |
| 97 | 0.200 | 0.207 | 0.215 | 3.661 | -3.542 | 1.258 | -1.217 |
| 98 | 0.194 | 0.201 | 0.209 | 3.691 | -3.570 | 1.275 | -1.233 |
| 99 | 0.188 | 0.195 | 0.203 | 3.722 | -3.598 | 1.292 | -1.249 |
| 100 | 0.183 | 0.190 | 0.197 | 3.751 | -3.625 | 1.310 | -1.266 |
| 101 | 0.178 | 0.185 | 0.192 | 3.781 | -3.653 | 1.327 | -1.282 |
| 102 | 0.173 | 0.179 | 0.186 | 3.811 | -3.681 | 1.344 | -1.299 |
| 103 | 0.168 | 0.174 | 0.181 | 3.840 | -3.708 | 1.362 | -1.315 |
| 104 | 0.163 | 0.169 | 0.176 | 3.870 | -3.735 | 1.380 | -1.332 |
| 105 | 0.158 | 0.165 | 0.171 | 3.899 | -3.762 | 1.397 | -1.348 |
| 106 | 0.154 | 0.160 | 0.166 | 3.928 | -3.790 | 1.415 | -1.365 |
| 107 | 0.150 | 0.156 | 0.162 | 3.958 | -3.817 | 1.433 | -1.382 |
| 108 | 0.145 | 0.151 | 0.157 | 3.987 | -3.843 | 1.451 | -1.399 |

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|-----|-------|-------|-------|-------|--------|-------|--------|
| 109 | 0.141 | 0.147 | 0.153 | 4.016 | -3.870 | 1.469 | -1.416 |
| 110 | 0.138 | 0.143 | 0.149 | 4.044 | -3.897 | 1.487 | -1.433 |
| 111 | 0.134 | 0.139 | 0.145 | 4.073 | -3.923 | 1.505 | -1.450 |
| 112 | 0.130 | 0.135 | 0.141 | 4.102 | -3.950 | 1.523 | -1.467 |
| 113 | 0.126 | 0.132 | 0.137 | 4.131 | -3.976 | 1.542 | -1.484 |
| 114 | 0.123 | 0.128 | 0.133 | 4.159 | -4.003 | 1.560 | -1.501 |
| 115 | 0.120 | 0.125 | 0.130 | 4.188 | -4.029 | 1.578 | -1.519 |
| 116 | 0.116 | 0.121 | 0.126 | 4.216 | -4.055 | 1.597 | -1.536 |
| 117 | 0.113 | 0.118 | 0.123 | 4.245 | -4.082 | 1.615 | -1.553 |
| 118 | 0.110 | 0.115 | 0.120 | 4.274 | -4.108 | 1.634 | -1.571 |
| 119 | 0.107 | 0.112 | 0.116 | 4.302 | -4.134 | 1.653 | -1.588 |
| 120 | 0.104 | 0.109 | 0.113 | 4.330 | -4.160 | 1.672 | -1.606 |
| 121 | 0.101 | 0.106 | 0.110 | 4.359 | -4.186 | 1.690 | -1.623 |
| 122 | 0.098 | 0.103 | 0.107 | 4.387 | -4.213 | 1.709 | -1.641 |
| 123 | 0.096 | 0.100 | 0.104 | 4.416 | -4.239 | 1.728 | -1.659 |
| 124 | 0.093 | 0.097 | 0.102 | 4.445 | -4.265 | 1.747 | -1.677 |
| 125 | 0.091 | 0.095 | 0.099 | 4.473 | -4.291 | 1.766 | -1.694 |