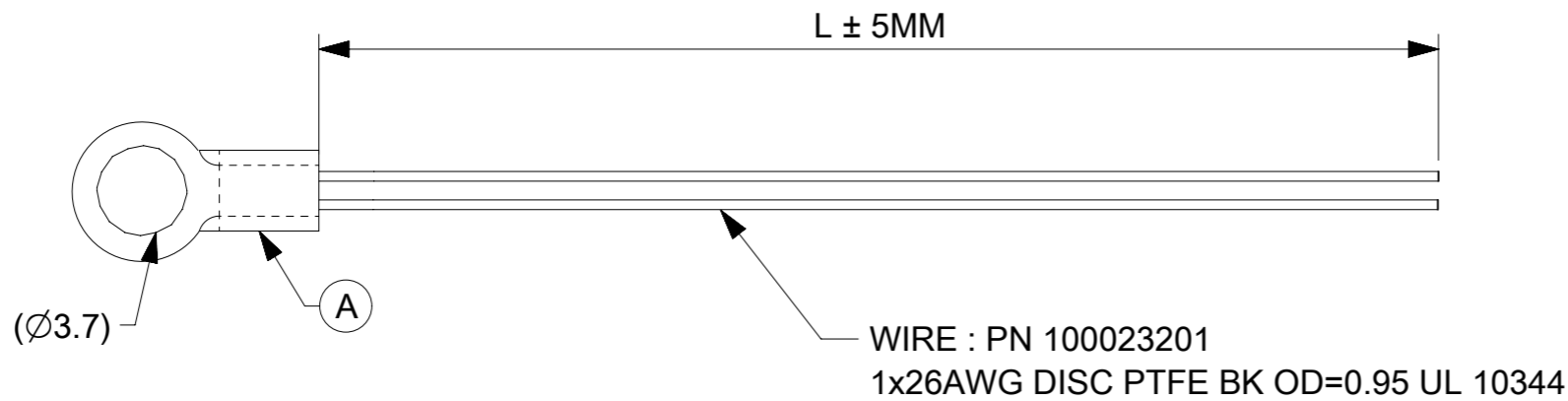


BILL OF MATERIALS:

| ITEM | PN | DESCRIPTION | QTY | UOM |
|------|------------------------------|------------------------------|-----|-----|
| A | NTC PROBE (Refer Sheet 2) | NTC Thermistor Ring Terminal | 1 | PC |



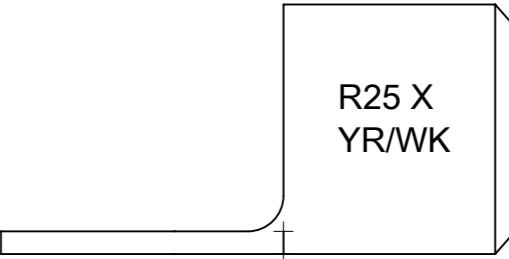
NOTES:

1. RESISTANCE TO BE TESTED 100% AT 25°C ▽
2. RESISTANCE TOLERANCE @ 25°C : SEE CHART (SHEET 2).
3. B-VALUE(25/85°C) : SEE CHART (SHEET 2)
4. OPERATING TEMPERATURE RANGE : -40°C TO +105°C.
5. RING TERMINAL MOUNTING HOLE DIAMETER : 3.7MM
6. TERMINAL MUST BE NICKEL PLATED COPPER.
7. VOLTAGE BREAKDOWN STRENGTH : MIN 1500VAC FOR 3SEC BETWEEN CONDUCTOR AND EYELET/RING LUG
8. RESPONCE TIME : APPROX 5 SECOND IN WATER
- 9.INSULATION RESISTANCE :MINIMUM OF 100MOHM @ 500VOLTS DC IN METALIC BALLS
- 10.LENGTH VARIATION BETWEEN TWO WIRES ARE NOT ALLOWED


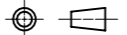
| | | | | | | | | | |
|---|--|-------|-------------------------|---------|--------|---|--|--|--|
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | | | | | |
| SYMBOLS | DIMENSION UNITS | SCALE | CURRENT REV DESC: | | | | | | |
| | mm | NTS | | | | | | | |
| ▽ = 0 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | EC NO: 644545 | | | NTC THERMISTOR RING TERMINAL PROBE PRODUCT CUSTOMER DRAWING | | | |
| ▽ = 0 | ANGULAR TOL ± ° | | DRWN: RAVIKM 2020/09/02 | | | | | | |
| ▽ = 0 | 4 PLACES ± | | CHK'D: RK 2020/09/03 | | | DOCUMENT NUMBER: 2146501633 DOC TYPE: PSD DOC PART: 000 REVISION: A2 | | | |
| ▽ = 0 | 3 PLACES ± | | APPR: RK 2020/09/03 | | | | | | |
| ▽ = 0 | 2 PLACES ± | | INITIAL REVISION: | | | MATERIAL NUMBER: SEE SPEC TABLE CUSTOMER: GENERAL MARKET SHEET NUMBER: 1 OF 2 | | | |
| ▽ = 0 | 1 PLACE ± | | DRWN: RAVIKM 2020/02/25 | | | | | | |
| ▽ = 0 | 0 PLACES ± | | APPR: RK 2020/03/05 | | | | | | |
| □ = 0 | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | THIRD ANGLE PROJECTION | DRAWING | SERIES | | | | |
| ▽ = 0 | | | | A3-SIZE | 214650 | | | | |

| PART NO | NTC PROBE PN | RESISTANCE AT 25°C (KΩ) | RESISTANCE TOLERANCE (±%) | B VALUE (25/85°C) | B VALUE TOLERANCE (±%) | WIRE LENGTH (L)MM |
|------------|--------------|-------------------------|---------------------------|-------------------|------------------------|-------------------|
| 2146501633 | 369050096 | 10K | 1 | 3500 | 1 | 75mm |
| 2146502633 | 369050097 | 10K | 2 | 3500 | 1 | 75mm |
| 2146521633 | 369050098 | 10K | 1 | 3800 | 1 | 75mm |
| 2146522633 | 369050099 | 10K | 2 | 3800 | 1 | 75mm |
| 2146541633 | 369050100 | 10K | 1 | 3964 | 1 | 75mm |
| 2146542633 | 369050101 | 10K | 2 | 3964 | 1 | 75mm |
| 2146551633 | 369050102 | 10K | 1 | 3982 | 1 | 75mm |
| 2146552633 | 369050103 | 10K | 2 | 3982 | 1 | 75mm |

LASER MARKING DETAILS



| B VALUE | CODE(X) |
|---------|---------|
| 3500 | MA |
| 3800 | MB |
| 3964 | MC |
| 3982 | MD |

| | | | |
|--|---|---|--|
| SYMBOLS ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION DIMENSION UNITS: mm SCALE: NTS | CURRENT REV DESC: EC NO: 644545 DRWN: RAVIKM 2020/09/02 CHK'D: RK 2020/09/03 APPR: RK 2020/09/03 |  NTC THERMISTOR RING TERMINAL PROBE |
| | GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± ° | | PRODUCT CUSTOMER DRAWING |
| | INITIAL REVISION: DRWN: RAVIKM 2020/02/25 APPR: RK 2020/03/05 | | DOCUMENT NUMBER: 2146501633 DOC TYPE: PSD DOC PART: 000 REVISION: A2 |
| | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | THIRD ANGLE PROJECTION:  |



LASER MARKING DETAILS

R25 X
YR/WK

| | |
|---------|---------|
| B VALUE | CODE(X) |
| 3964 | MC |

RESISTANCE VS TEMP CHARACTERISTICS:

| Temp(°C) | R min (KΩ) | R nom (KΩ) | R max (KΩ) | Temp(°C) | R min (KΩ) | R nom (KΩ) | R max (KΩ) |
|----------|------------|------------|------------|----------|------------|------------|------------|
| -40 | 272.5 | 286.1 | 300.3 | 50 | 3.545 | 3.636 | 3.728 |
| -35 | 200.3 | 209.7 | 219.4 | 55 | 2.936 | 3.016 | 3.099 |
| -30 | 148.9 | 155.3 | 162 | 60 | 2.442 | 2.514 | 2.587 |
| -25 | 111.7 | 116.2 | 120.9 | 65 | 2.041 | 2.105 | 2.17 |
| -20 | 84.64 | 87.82 | 91.09 | 70 | 1.713 | 1.77 | 1.828 |
| -15 | 64.66 | 66.9 | 69.21 | 75 | 1.444 | 1.494 | 1.545 |
| -10 | 49.82 | 51.41 | 53.04 | 80 | 1.222 | 1.266 | 1.312 |
| -5 | 38.69 | 39.83 | 40.99 | 85 | 1.039 | 1.078 | 1.119 |
| 0 | 30.29 | 31.1 | 31.93 | 90 | 0.886 | 0.922 | 0.958 |
| 5 | 23.92 | 24.5 | 25.1 | 95 | 0.759 | 0.791 | 0.823 |
| 10 | 19.01 | 19.42 | 19.85 | 100 | 0.653 | 0.681 | 0.71 |
| 15 | 15.19 | 15.49 | 15.79 | 105 | 0.563 | 0.588 | 0.614 |
| 20 | 12.2 | 12.41 | 12.63 | 110 | 0.487 | 0.509 | 0.533 |
| 25 | 9.85 | 10 | 10.15 | 115 | 0.423 | 0.443 | 0.463 |
| 30 | 7.958 | 8.096 | 8.235 | 120 | 0.368 | 0.386 | 0.405 |
| 35 | 6.459 | 6.585 | 6.712 | 125 | 0.321 | 0.337 | 0.354 |
| 40 | 5.266 | 5.38 | 5.495 | 130 | 0.274 | 0.288 | 0.303 |
| 45 | 4.312 | 4.414 | 4.517 | 135 | 0.227 | 0.239 | 0.252 |

NOTES:

1. RESISTANCE TOLERANCE @ 25°C : 10KΩ±2%.
3. B-VALUE(25/85°C) : 3964K±1%.
4. OPERATING TEMPERATURE RANGE : -40°C TO +105°C.
5. RING TERMINAL MOUNTING HOLE DIAMETER : 3.7MM.
6. TERMINAL IS NICKEL PLATED COPPER.
7. VOLTAGE BREAKDOWN STRENGTH : MIN 1500VAC FOR 3SEC BETWEEN CONDUCTOR AND EYELET/RING LUG
8. RESPONCE TIME : APPROX 10 SECOND IN LIQUID MEDIUM
- 9.INSULATION RESISTANCE :MINIMUM OF 100MOHM @ 500VOLTS DC IN METALIC BALLS.

| | | | | | |
|--|---|-----------------------------|-------------------------|----------------------------|--------------------------|
| FUNCTIONAL SYMBOLS | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | CURRENT REV DESC: | | molex |
| | mm | NTS | | | |
| DIVISIONAL SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) | | EC NO: 657688 | | PRODUCT CUSTOMER DRAWING |
| | ANGULAR TOL ± ° | | DRWN: RAVIKM 2021/03/10 | | |
| 4 PLACES ± | | CHK'D: RBBHASKAR 2021/03/17 | | DOCUMENT NUMBER | |
| 3 PLACES ± | | APPR: RBBHASKAR 2021/03/17 | | 2146542633 | |
| 2 PLACES ± | | INITIAL REVISION: | | DOC TYPE DOC PART REVISION | |
| 1 PLACE ± | | DRWN: RAVIKM 2021/03/10 | | PSD 000 A | |
| 0 PLACES ± | | APPR: RBBHASKAR 2021/03/17 | | SHEET NUMBER | |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER |
| | | | A3-SIZE | 214654 | 2146542633 |
| | | | | | CUSTOMER |
| | | | | | OTS |
| | | | | | 1 OF 1 |