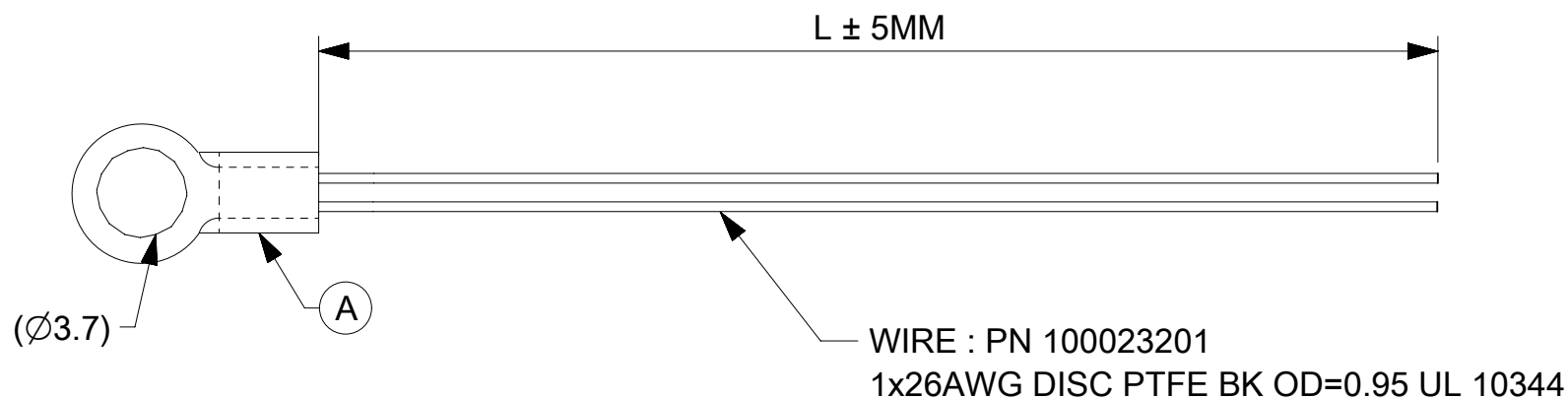


BILL OF MATERIALS:

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



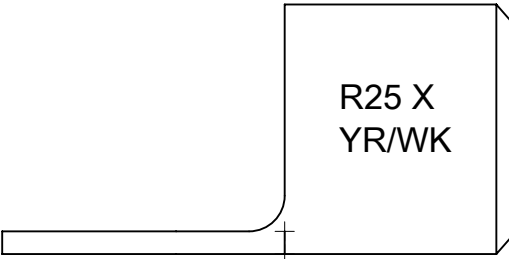
NOTES:

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










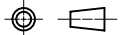
| | | | | | | | | | |
|---|--|-------|-------------------------|--|--|---|--|--|--|
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | | | | | |
| SYMBOLS | DIMENSION UNITS | SCALE | CURRENT REV DESC: | | | | | | |
| | 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 | | | SERIES: A3-SIZE MATERIAL NUMBER: 214650 | | | |
| ▽ = 0 | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | THIRD ANGLE PROJECTION | | | | | | |
| ▽ = 0 | | | DRAWING | | | | | | |

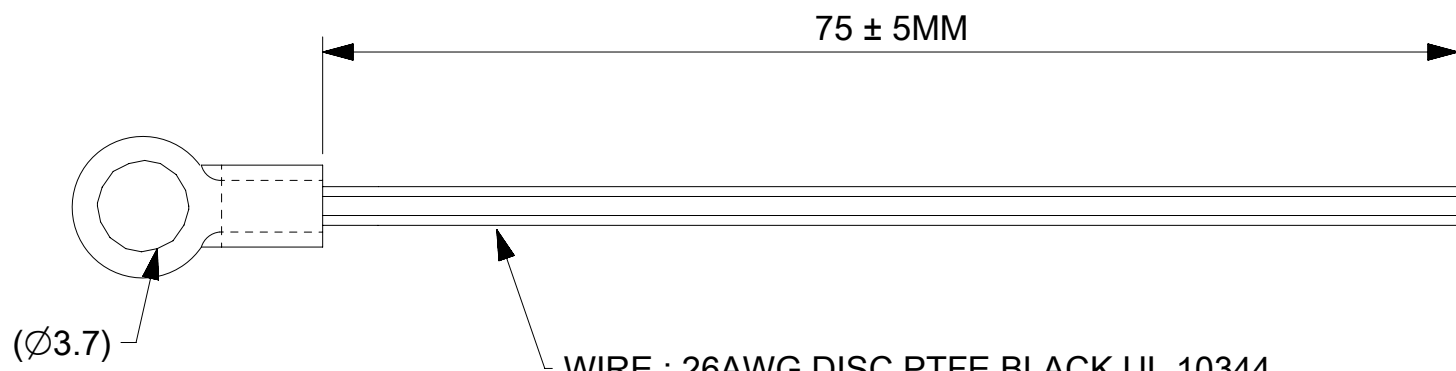
| PART NO | NTC PROBE PN | RESISTANCE AT 25°C (KΩ) | RESISTANCE TOLERANCE (±%) | B VALUE (25/85°C) | B VALUE TOLERANCE (±%) | WIRE LENGTH (L)MM |
|------------|--------------|-------------------------|---------------------------|-------------------|------------------------|-------------------|
| 2146501633 | 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 | 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: | |  NTC THERMISTOR RING TERMINAL PROBE | |
| | GENERAL TOLERANCES (UNLESS SPECIFIED) | | EC NO: 644545 | | DRWN: RAVIKM 2020/09/02 | | | |
| | ANGULAR TOL ± ° | | CHK'D: RK 2020/09/03 | | | | | |
| | 4 PLACES ± | | APPR: RK 2020/09/03 | | INITIAL REVISION: | | DOCUMENT NUMBER: 2146501633 DOC TYPE: PSD DOC PART: 000 REVISION: A2 | |
| | 3 PLACES ± | | DRWN: RAVIKM 2020/02/25 | | APPR: RK 2020/03/05 | | MATERIAL NUMBER: SEE SPEC TABLE CUSTOMER: GENERAL MARKET | |
| | 2 PLACES ± | | DRWN: RAVIKM 2020/02/25 | | APPR: RK 2020/03/05 | | SERIES: A3-SIZE 214650 | |
| | 1 PLACE ± | | DRWN: RAVIKM 2020/02/25 | | APPR: RK 2020/03/05 | | SHEET NUMBER: 2 OF 2 | |
| | 0 PLACES ± | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | THIRD ANGLE PROJECTION:  | | DRAWING: A3-SIZE SERIES: 214650 | |



WIRE : 26AWG DISC PTFE BLACK UL 10344

LASER MARKING DETAILS

R25 X
YR/WK

| | |
|---------|---------|
| B VALUE | CODE(X) |
| 3800 | MB |

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 | 273.2 | 286.8 | 301 | 50 | 3.693 | 3.786 | 3.88 |
| -35 | 200.2 | 209.6 | 219.3 | 55 | 3.083 | 3.166 | 3.251 |
| -30 | 148.4 | 154.9 | 161.6 | 60 | 2.586 | 2.66 | 2.736 |
| -25 | 111.2 | 115.7 | 120.3 | 65 | 2.179 | 2.245 | 2.313 |
| -20 | 84.130 | 87.290 | 90.540 | 70 | 1.843 | 1.903 | 1.964 |
| -15 | 64.150 | 66.370 | 68.660 | 75 | 1.566 | 1.619 | 1.674 |
| -10 | 49.370 | 50.950 | 52.560 | 80 | 1.336 | 1.383 | 1.432 |
| -5 | 38.330 | 39.460 | 40.600 | 85 | 1.14 | 1.182 | 1.226 |
| 0 | 30.010 | 30.810 | 31.630 | 90 | 0.976 | 1.014 | 1.053 |
| 5 | 23.680 | 24.250 | 24.840 | 95 | 0.838 | 0.872 | 0.907 |
| 10 | 18.820 | 19.230 | 19.650 | 100 | 0.721 | 0.752 | 0.783 |
| 15 | 15.070 | 15.360 | 15.660 | 105 | 0.623 | 0.65 | 0.678 |
| 20 | 12.140 | 12.360 | 12.570 | 110 | 0.539 | 0.564 | 0.589 |
| 25 | 9.850 | 10.000 | 10.150 | 115 | 0.468 | 0.49 | 0.513 |
| 30 | 8.005 | 8.144 | 8.283 | 120 | 0.407 | 0.427 | 0.447 |
| 35 | 6.544 | 6.671 | 6.798 | 125 | 0.355 | 0.373 | 0.391 |
| 40 | 5.380 | 5.494 | 5.610 | 130 | 0.303 | 0.319 | 0.335 |
| 45 | 4.446 | 4.549 | 4.654 | 135 | 0.251 | 0.265 | 0.279 |

NOTES:

- RESISTANCE TOLERANCE @ 25°C : 10KΩ±2%.
- B-VALUE(25/85°C) : 3800K±1%.
- OPERATING TEMPERATURE RANGE : -40°C TO +105°C.
- RING TERMINAL MOUNTING HOLE DIAMETER : 3.7MM.
- TERMINAL IS NICKEL PLATED COPPER.
- VOLTAGE BREAKDOWN STRENGTH : MIN 1500VAC FOR 3SEC BETWEEN CONDUCTOR AND EYELET/RING LUG
- RESPONCE TIME : APPROX 10 SECOND IN LIQUID MEDIUM
- 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 | | |
| FUNCTIONAL SYMBOLS | 4 PLACES ± | CHK'D: RBBHASKAR 2021/03/17 | | DOCUMENT NUMBER | |
| | 3 PLACES ± | APPR: RBBHASKAR 2021/03/17 | | 2146522633 | |
| | 2 PLACES ± | INITIAL REVISION: | | DOC TYPE | DOC PART |
| | 1 PLACE ± | DRWN: RAVIKM 2021/03/10 | | PSD | 000 |
| 0 PLACES ± | APPR: RBBHASKAR 2021/03/17 | | REVISION | A | |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER |
| | | | A3-SIZE | 214652 | 2146522633 |
| | | | | CUSTOMER | SHEET NUMBER |
| | | | | OTS | 1 OF 1 |