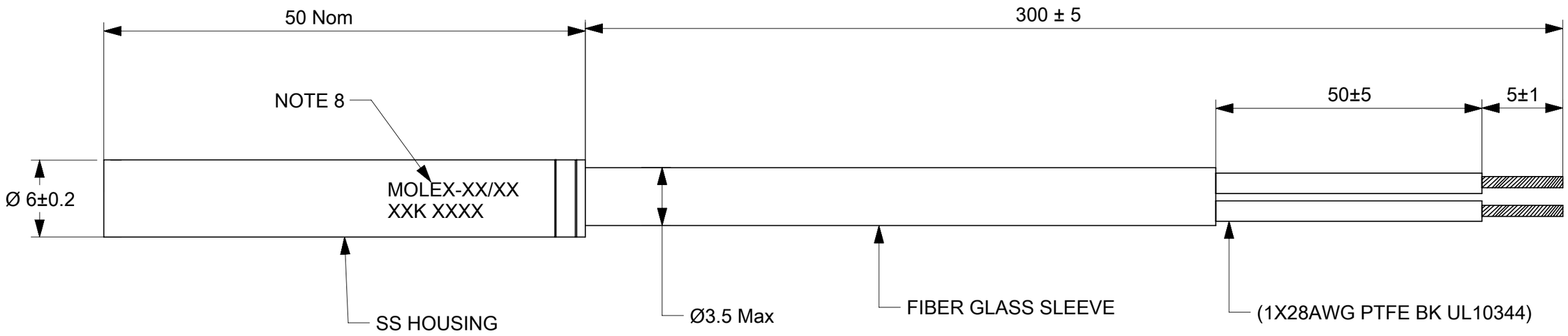


NOTES:

1. RESISTANCE @ 25°C : 10KΩ ± 1%
2. BETA VALUE (0/50°C) : 4035K ± 1%
3. OPERATING TEMPERATURE RANGE : -40°C TO +250°C.
4. THERMAL TIME CONSTANT : 15SEC IN WATER
5. VOLTAGE BREAKDOWN STRENGTH : 1500V AC FOR 3SEC.
6. INSULATION RESISTANCE : A MINIMUM OF 100MΩ @ 500VOLTS DC.
7. DISSIPATION FACTOR : 1mW/°C.
8. LASER MARKING "MOLEX-DATE CODE(MM/YY)" & "XXK(R25-value) XXXX(B-value)"

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

| | | | |
|---|---|---|---|
| FUNCTIONAL SYMBOLS | DIMENSION UNITS: mm | SCALE: NTS | CURRENT REV DESC: |
| FA = 0 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | |
| FC = 0 | ANGULAR TOL ± ° | | EC NO: 727818 |
| FP = 0 | 4 PLACES ± | | DRWN: NANDAK 2022/11/09 |
| DIVISIONAL SYMBOLS | 3 PLACES ± | | CHK'D: RBBHASKAR 2022/11/15 |
| | 2 PLACES ± | | APPR: RBBHASKAR 2022/11/15 |
| | 1 PLACE ± | | INITIAL REVISION: |
| | 0 PLACES ± | | DRWN: RAVIKM 2022/01/28 |
| | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | APPR: RBBHASKAR 2022/02/18 |

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 218537

molex

GLASS NTC PROBE A -10K±1%,B4035,L300

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| 2185373609 | PSD | 000 | A2 |

| MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|
| 2185373609 | GENERAL MARKET | 1 OF 2 |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2022/11/15 05:51:13 |
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RESISTANCE VS TEMPERATURE CHARACTERISTICS

| TEMP(□) | Rmin(KΩ) | Rnom(KΩ) | Rmax(KΩ) |
|---|---|---|---|
| -40 | 404.234 | 385.875 | 368.312 |
| -35 | 286.476 | 274.399 | 262.804 |
| -30 | 205.489 | 197.475 | 189.754 |
| -25 | 149.092 | 143.733 | 138.553 |
| -20 | 109.351 | 105.744 | 102.246 |
| -15 | 81.031 | 78.591 | 76.217 |
| -10 | 60.634 | 58.978 | 57.360 |
| -05 | 45.795 | 44.668 | 43.564 |
| 00 | 34.895 | 34.128 | 33.374 |
| 05 | 26.815 | 26.293 | 25.779 |
| 10 | 20.772 | 20.420 | 20.071 |
| 15 | 16.216 | 15.978 | 15.746 |
| 20 | 12.753 | 12.597 | 12.442 |
| 25 | 10.100 | 10.000 | 9.900 |
| 30 | 8.090 | 7.992 | 7.894 |
| 35 | 6.522 | 6.429 | 6.336 |
| 40 | 5.290 | 5.203 | 5.117 |
| 45 | 4.316 | 4.237 | 4.158 |
| 50 | 3.542 | 3.469 | 3.398 |
| 55 | 2.922 | 2.857 | 2.793 |
| 60 | 2.424 | 2.365 | 2.308 |
| 65 | 2.021 | 1.969 | 1.917 |
| 70 | 1.694 | 1.647 | 1.600 |
| 75 | 1.426 | 1.384 | 1.343 |
| 80 | 1.206 | 1.168 | 1.132 |
| 85 | 1.025 | 0.991 | 0.958 |
| 90 | 0.8742 | 0.8444 | 0.8156 |
| 95 | 0.7492 | 0.7225 | 0.6968 |
| 100 | 0.6447 | 0.6208 | 0.5978 |
| 105 | 0.5570 | 0.5356 | 0.5150 |
| 110 | 0.4832 | 0.4639 | 0.4454 |
| 115 | 0.4207 | 0.4034 | 0.3867 |
| 120 | 0.3676 | 0.3520 | 0.3370 |
| 125 | 0.3225 | 0.3083 | 0.2948 |
| 130 | 0.2838 | 0.2711 | 0.2588 |
| 135 | 0.2507 | 0.2391 | 0.2280 |
| 140 | 0.2221 | 0.2116 | 0.2016 |
| 145 | 0.1975 | 0.1879 | 0.1788 |
| 150 | 0.1762 | 0.1674 | 0.1591 |

| TEMP(□) | Rmin(KΩ) | Rnom(KΩ) | Rmax(KΩ) |
|---|---|---|---|
| 155 | 0.1576 | 0.1497 | 0.1421 |
| 160 | 0.1415 | 0.1342 | 0.1272 |
| 165 | 0.1274 | 0.1207 | 0.1143 |
| 170 | 0.1150 | 0.1088 | 0.1030 |
| 175 | 0.1041 | 0.0985 | 0.0931 |
| 180 | 0.0946 | 0.0893 | 0.0844 |
| 185 | 0.0861 | 0.0813 | 0.0767 |
| 190 | 0.0787 | 0.0741 | 0.0699 |
| 195 | 0.0720 | 0.0678 | 0.0639 |
| 200 | 0.0661 | 0.0622 | 0.0585 |
| 205 | 0.0609 | 0.0572 | 0.0538 |
| 210 | 0.0562 | 0.0528 | 0.0496 |
| 215 | 0.0520 | 0.0488 | 0.0458 |
| 220 | 0.0482 | 0.0452 | 0.0424 |
| 225 | 0.0448 | 0.0420 | 0.0394 |
| 230 | 0.0418 | 0.0391 | 0.0366 |
| 235 | 0.0390 | 0.0365 | 0.0342 |
| 240 | 0.0365 | 0.0342 | 0.0320 |
| 245 | 0.0343 | 0.0321 | 0.0300 |
| 250 | 0.0323 | 0.0301 | 0.0282 |

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FUNCTIONAL SYMBOLS: FA = 0, FC = 0, FP = 0

DIVISIONAL SYMBOLS

DIMENSION UNITS: mm
SCALE: NTS

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | | |
|---|---|---|
| ANGULAR TOL | ± | ° |
| 4 PLACES | ± | |
| 3 PLACES | ± | |
| 2 PLACES | ± | |
| 1 PLACE | ± | |
| 0 PLACES | ± | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 727818
DRWN: NANDAK 2022/11/09
CHK'D: RBBHASKAR 2022/11/15
APPR: RBBHASKAR 2022/11/15

INITIAL REVISION:
DRWN: RAVIKM 2022/01/28
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THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 218537

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GLASS NTC PROBE A -10K±1%,B4035,L300

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| 2185373609 | PSD | 000 | A2 |

| MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|
| 2185373609 | GENERAL MARKET | 2 OF 2 |

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