



NOTES:

1. RESISTANCE @ 25°C : 10KΩ ± 1%
2. BETA VALUE (0/50°C) : 3964K ± 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)"

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|--------------------|---|--|-----------------------------|----------------------------|---------------------------------------|
| 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 |
| | △/A = 0 | mm | NTS | | |
| DIVISIONAL SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) | | EC NO: 727818 | | GLASS NTC MOUNTING -10K±1%,B3964,L100 |
| | △/E = 0 | ANGULAR TOL ± ° | | DRWN: NANDAK 2022/11/09 | |
| DIVISIONAL SYMBOLS | 4 PLACES | ± | CHK'D: RBBHASKAR 2022/11/15 | APPR: RBBHASKAR 2022/11/15 | PRODUCT CUSTOMER DRAWING |
| | 3 PLACES | ± | INITIAL REVISION: | DOCUMENT NUMBER | |
| | 2 PLACES | ± | DRWN: RAVIKM 2022/01/28 | 2185363617 | DOC TYPE |
| | 1 PLACE | ± | APPR: RBBHASKAR 2022/02/10 | PSD | DOC PART |
| 0 PLACES | ± | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | THIRD ANGLE PROJECTION | DRAWING | REVISION |
| | | | ⊕ | A3-SIZE | 218536 |
| | | | | SERIES | 218536 |
| | | | | MATERIAL NUMBER | 2185363617 |
| | | | | CUSTOMER | GENERAL MARKET |
| | | | | | SHEET NUMBER |
| | | | | | 1 OF 2 |

RESISTANCE VS TEMPERATURE CHARACTERISTICS

| TEMP(°C) | Rmin(KΩ) | Rnom(KΩ) | Rmax(KΩ) |
|----------|----------|----------|----------|
| -40 | 356.0928 | 372.8642 | 390.3851 |
| -35 | 248.0856 | 258.8782 | 270.1136 |
| -30 | 181.8178 | 189.1335 | 196.7234 |
| -25 | 136.0766 | 141.1378 | 146.3726 |
| -20 | 100.7260 | 104.1526 | 107.6834 |
| -15 | 75.1933 | 77.5269 | 79.9224 |
| -10 | 56.1744 | 57.7451 | 59.3562 |
| -5 | 42.8109 | 43.8861 | 44.9833 |
| 0 | 32.2942 | 33.0206 | 33.7570 |
| 5 | 25.9578 | 26.4767 | 27.0036 |
| 10 | 20.4028 | 20.7599 | 21.1211 |
| 15 | 16.0998 | 16.3433 | 16.5884 |
| 20 | 12.7710 | 12.9326 | 13.0956 |
| 25 | 9.9000 | 10.0000 | 10.1000 |
| 30 | 7.8997 | 7.9972 | 8.0956 |
| 35 | 6.3517 | 6.4438 | 6.5366 |
| 40 | 5.1389 | 5.2246 | 5.3114 |
| 45 | 4.1837 | 4.2621 | 4.3418 |
| 50 | 3.4250 | 3.4963 | 3.5687 |
| 55 | 2.8464 | 2.9107 | 2.9762 |
| 60 | 2.3674 | 2.4253 | 2.4845 |
| 65 | 1.9715 | 2.0235 | 2.0767 |
| 70 | 1.6447 | 1.6910 | 1.7386 |
| 75 | 1.3751 | 1.4165 | 1.4589 |
| 80 | 1.1534 | 1.1902 | 1.2279 |
| 85 | 0.9827 | 1.0156 | 1.0496 |
| 90 | 0.8333 | 0.8626 | 0.8929 |
| 95 | 0.7085 | 0.7346 | 0.7616 |
| 100 | 0.6170 | 0.6406 | 0.6650 |
| 105 | 0.5300 | 0.5511 | 0.5730 |
| 110 | 0.4576 | 0.4766 | 0.4962 |
| 115 | 0.3971 | 0.4141 | 0.4317 |
| 120 | 0.3459 | 0.3612 | 0.3771 |
| 125 | 0.3024 | 0.3161 | 0.3305 |
| 130 | 0.2650 | 0.2774 | 0.2905 |
| 135 | 0.2326 | 0.2438 | 0.2556 |
| 140 | 0.2043 | 0.2144 | 0.2251 |
| 145 | 0.1793 | 0.1884 | 0.1980 |
| 150 | 0.1571 | 0.1653 | 0.1740 |

| TEMP(°C) | Rmin(KΩ) | Rnom(KΩ) | Rmax(KΩ) |
|----------|----------|----------|----------|
| 155 | 0.1398 | 0.1473 | 0.1552 |
| 160 | 0.1250 | 0.1318 | 0.1390 |
| 165 | 0.1120 | 0.1182 | 0.1248 |
| 170 | 0.1007 | 0.1064 | 0.1125 |
| 175 | 0.0907 | 0.0960 | 0.1016 |
| 180 | 0.0819 | 0.0867 | 0.0918 |
| 185 | 0.0739 | 0.0784 | 0.0831 |
| 190 | 0.0668 | 0.0709 | 0.0752 |
| 195 | 0.0603 | 0.0641 | 0.0681 |
| 200 | 0.0544 | 0.0578 | 0.0615 |
| 205 | 0.0507 | 0.0540 | 0.0575 |
| 210 | 0.0470 | 0.0500 | 0.0533 |
| 215 | 0.0432 | 0.0460 | 0.0490 |
| 220 | 0.0403 | 0.0430 | 0.0459 |
| 225 | 0.0365 | 0.0390 | 0.0416 |
| 230 | 0.0337 | 0.0360 | 0.0385 |
| 235 | 0.0309 | 0.0330 | 0.0353 |
| 240 | 0.0280 | 0.0300 | 0.0321 |
| 245 | 0.0261 | 0.0280 | 0.0300 |
| 250 | 0.0243 | 0.0260 | 0.0279 |

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| | DIMENSION UNITS | SCALE |
| $\nabla_A = 0$ | mm | NTS |
| $\nabla_E = 0$ | GENERAL TOLERANCES (UNLESS SPECIFIED) | |
| $\nabla_V = 0$ | ANGULAR TOL ± ° | |
| DIVISIONAL SYMBOLS | 4 PLACES | ± |
| | 3 PLACES | ± |
| | 2 PLACES | ± |
| | 1 PLACE | ± |
| | 0 PLACES | ± |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | THIRD ANGLE PROJECTION |
| CURRENT REV DESC: | | EC NO: 727818 |
| | | DRWN: NANDAK 2022/11/09 |
| | | CHK'D: RBBHASKAR 2022/11/15 |
| | | APPR: RBBHASKAR 2022/11/15 |
| INITIAL REVISION: | | DOCUMENT NUMBER |
| DRWN: RAVIKM 2022/01/28 | | 2185363617 |
| APPR: RBBHASKAR 2022/02/10 | | DOC TYPE |
| | | PSD |
| | | DOC PART |
| | | 000 |
| | | REVISION |
| | | B3 |
| | | MATERIAL NUMBER |
| | | 2185363617 |
| | | CUSTOMER |
| | | GENERAL MARKET |
| | | SHEET NUMBER |
| | | 2 OF 2 |