

ERTJ0ER104JM R-T Characteristics (for reference)

$R_{25} = 100 \text{ kohm} \pm 5\%$

$B_{25/50} = 4250 \text{ K} \pm 1\%$

| Temp. T(deg.C) | Resistance (kohm) | | | Temp. T(deg.C) | Resistance (kohm) | | | Temp. T(deg.C) | Resistance (kohm) | | |
|-------------------|-------------------|--------------|--------------|-------------------|-------------------|--------------|--------------|-------------------|-------------------|--------------|--------------|
| | R min. | R typ. | R max. | | R min. | R typ. | R max. | | R min. | R typ. | R max. |
| -40 | 3880 | 4240 | 4622 | 25 | 95.00 | 100.0 | 105.0 | 90 | 6.903 | 7.457 | 8.036 |
| -39 | 3619 | 3952 | 4305 | 26 | 90.59 | 95.40 | 100.22 | 91 | 6.673 | 7.211 | 7.773 |
| -38 | 3376 | 3685 | 4011 | 27 | 86.40 | 91.04 | 95.68 | 92 | 6.452 | 6.974 | 7.521 |
| -37 | 3152 | 3437 | 3739 | 28 | 82.44 | 86.90 | 91.37 | 93 | 6.239 | 6.747 | 7.278 |
| -36 | 2944 | 3208 | 3488 | 29 | 78.67 | 82.96 | 87.28 | 94 | 6.034 | 6.527 | 7.043 |
| -35 | 2751 | 2996 | 3255 | 30 | 75.09 | 79.23 | 83.39 | 95 | 5.837 | 6.316 | 6.818 |
| -34 | 2572 | 2799 | 3039 | 31 | 71.70 | 75.69 | 79.69 | 96 | 5.647 | 6.113 | 6.600 |
| -33 | 2406 | 2616 | 2838 | 32 | 68.48 | 72.32 | 76.18 | 97 | 5.464 | 5.917 | 6.391 |
| -32 | 2251 | 2447 | 2652 | 33 | 65.42 | 69.11 | 72.84 | 98 | 5.288 | 5.728 | 6.189 |
| -31 | 2107 | 2289 | 2480 | 34 | 62.51 | 66.07 | 69.66 | 99 | 5.119 | 5.546 | 5.994 |
| -30 | 1974 | 2142 | 2320 | 35 | 59.74 | 63.18 | 66.64 | 100 | 4.955 | 5.371 | 5.807 |
| -29 | 1850 | 2006 | 2171 | 36 | 57.11 | 60.42 | 63.77 | 101 | 4.798 | 5.202 | 5.626 |
| -28 | 1734 | 1880 | 2032 | 37 | 54.62 | 57.81 | 61.03 | 102 | 4.646 | 5.039 | 5.451 |
| -27 | 1626 | 1762 | 1904 | 38 | 52.24 | 55.31 | 58.43 | 103 | 4.500 | 4.882 | 5.283 |
| -26 | 1526 | 1652 | 1784 | 39 | 49.98 | 52.94 | 55.94 | 104 | 4.359 | 4.731 | 5.121 |
| -25 | 1432 | 1550 | 1672 | 40 | 47.82 | 50.68 | 53.58 | 105 | 4.223 | 4.585 | 4.965 |
| -24 | 1344 | 1453 | 1567 | 41 | 45.78 | 48.53 | 51.33 | 106 | 4.092 | 4.444 | 4.814 |
| -23 | 1263 | 1365 | 1471 | 42 | 43.83 | 46.49 | 49.19 | 107 | 3.966 | 4.308 | 4.668 |
| -22 | 1187 | 1282 | 1381 | 43 | 41.97 | 44.53 | 47.14 | 108 | 3.844 | 4.177 | 4.528 |
| -21 | 1117 | 1205 | 1297 | 44 | 40.20 | 42.68 | 45.19 | 109 | 3.727 | 4.051 | 4.392 |
| -20 | 1051 | 1133 | 1219 | 45 | 38.51 | 40.90 | 43.33 | 110 | 3.613 | 3.929 | 4.261 |
| -19 | 989 | 1066 | 1146 | 46 | 36.90 | 39.21 | 41.56 | 111 | 3.504 | 3.811 | 4.134 |
| -18 | 930.7 | 1003 | 1077 | 47 | 35.37 | 37.60 | 39.87 | 112 | 3.398 | 3.697 | 4.012 |
| -17 | 876.6 | 943.6 | 1013.3 | 48 | 33.91 | 36.06 | 38.25 | 113 | 3.296 | 3.587 | 3.894 |
| -16 | 825.9 | 888.5 | 953.6 | 49 | 32.52 | 34.59 | 36.71 | 114 | 3.197 | 3.481 | 3.779 |
| -15 | 778.4 | 837.0 | 897.7 | 50 | 31.19 | 33.19 | 35.24 | 115 | 3.102 | 3.378 | 3.669 |
| -14 | 734.0 | 788.8 | 845.5 | 51 | 29.92 | 31.86 | 33.84 | 116 | 3.010 | 3.279 | 3.562 |
| -13 | 692.4 | 743.6 | 796.6 | 52 | 28.71 | 30.58 | 32.49 | 117 | 2.921 | 3.183 | 3.459 |
| -12 | 653.3 | 701.3 | 750.8 | 53 | 27.55 | 29.36 | 31.21 | 118 | 2.835 | 3.090 | 3.359 |
| -11 | 616.7 | 661.6 | 707.9 | 54 | 26.45 | 28.20 | 29.99 | 119 | 2.752 | 3.000 | 3.262 |
| -10 | 582.4 | 624.4 | 667.7 | 55 | 25.40 | 27.09 | 28.81 | 120 | 2.671 | 2.913 | 3.169 |
| -9 | 550.2 | 589.5 | 630.0 | 56 | 24.39 | 26.02 | 27.69 | 121 | 2.593 | 2.829 | 3.078 |
| -8 | 519.9 | 556.7 | 594.7 | 57 | 23.43 | 25.01 | 26.62 | 122 | 2.518 | 2.748 | 2.991 |
| -7 | 491.4 | 526.0 | 561.5 | 58 | 22.51 | 24.03 | 25.60 | 123 | 2.445 | 2.669 | 2.906 |
| -6 | 464.7 | 497.1 | 530.4 | 59 | 21.63 | 23.10 | 24.62 | 124 | 2.375 | 2.593 | 2.824 |
| -5 | 439.6 | 469.9 | 501.1 | 60 | 20.79 | 22.21 | 23.68 | 125 | 2.306 | 2.519 | 2.744 |
| -4 | 415.9 | 444.4 | 473.6 | 61 | 19.99 | 21.36 | 22.78 | 126 | 2.240 | 2.447 | 2.667 |
| -3 | 393.7 | 420.4 | 447.8 | 62 | 19.22 | 20.55 | 21.92 | 127 | 2.176 | 2.378 | 2.592 |
| -2 | 372.7 | 397.8 | 423.5 | 63 | 18.48 | 19.77 | 21.10 | 128 | 2.114 | 2.311 | 2.520 |
| -1 | 353.0 | 376.6 | 400.7 | 64 | 17.78 | 19.02 | 20.31 | 129 | 2.055 | 2.246 | 2.450 |
| 0 | 334.4 | 356.5 | 379.2 | 65 | 17.10 | 18.31 | 19.55 | 130 | 1.997 | 2.184 | 2.382 |
| 1 | 316.9 | 337.7 | 358.9 | 66 | 16.46 | 17.63 | 18.83 | 131 | 1.940 | 2.123 | 2.316 |
| 2 | 300.4 | 319.9 | 339.9 | 67 | 15.84 | 16.97 | 18.14 | 132 | 1.886 | 2.064 | 2.253 |
| 3 | 284.9 | 303.2 | 321.9 | 68 | 15.25 | 16.34 | 17.47 | 133 | 1.833 | 2.007 | 2.191 |
| 4 | 270.2 | 287.4 | 305.0 | 69 | 14.68 | 15.74 | 16.84 | 134 | 1.782 | 1.951 | 2.131 |
| 5 | 256.3 | 272.5 | 289.0 | 70 | 14.14 | 15.16 | 16.22 | 135 | 1.733 | 1.898 | 2.073 |
| 6 | 243.2 | 258.5 | 274.0 | 71 | 13.61 | 14.61 | 15.64 | 136 | 1.685 | 1.846 | 2.017 |
| 7 | 230.9 | 245.2 | 259.8 | 72 | 13.12 | 14.08 | 15.08 | 137 | 1.639 | 1.796 | 1.963 |
| 8 | 219.2 | 232.7 | 246.5 | 73 | 12.64 | 13.57 | 14.54 | 138 | 1.594 | 1.747 | 1.910 |
| 9 | 208.2 | 220.9 | 233.8 | 74 | 12.18 | 13.08 | 14.02 | 139 | 1.550 | 1.700 | 1.859 |
| 10 | 197.8 | 209.8 | 221.9 | 75 | 11.74 | 12.61 | 13.52 | 140 | 1.508 | 1.654 | 1.809 |
| 11 | 188.0 | 199.3 | 210.7 | 76 | 11.31 | 12.16 | 13.04 | 141 | 1.467 | 1.609 | 1.761 |
| 12 | 178.7 | 189.4 | 200.1 | 77 | 10.91 | 11.73 | 12.58 | 142 | 1.427 | 1.566 | 1.714 |
| 13 | 170.0 | 180.0 | 190.1 | 78 | 10.52 | 11.32 | 12.14 | 143 | 1.389 | 1.525 | 1.669 |
| 14 | 161.7 | 171.1 | 180.6 | 79 | 10.14 | 10.92 | 11.72 | 144 | 1.352 | 1.484 | 1.625 |
| 15 | 153.8 | 162.7 | 171.7 | 80 | 9.79 | 10.54 | 11.31 | 145 | 1.316 | 1.445 | 1.583 |
| 16 | 146.4 | 154.8 | 163.2 | 81 | 9.442 | 10.17 | 10.92 | 146 | 1.280 | 1.407 | 1.541 |
| 17 | 139.4 | 147.3 | 155.2 | 82 | 9.112 | 9.817 | 10.55 | 147 | 1.246 | 1.370 | 1.501 |
| 18 | 132.7 | 140.2 | 147.7 | 83 | 8.795 | 9.479 | 10.190 | 148 | 1.213 | 1.334 | 1.462 |
| 19 | 126.4 | 133.4 | 140.5 | 84 | 8.491 | 9.154 | 9.844 | 149 | 1.181 | 1.299 | 1.424 |
| 20 | 120.4 | 127.1 | 133.8 | 85 | 8.199 | 8.843 | 9.513 | 150 | 1.150 | 1.265 | 1.388 |
| 21 | 114.8 | 121.1 | 127.4 | 86 | 7.919 | 8.543 | 9.194 | | | | |
| 22 | 109.4 | 115.4 | 121.3 | 87 | 7.649 | 8.255 | 8.887 | | | | |
| 23 | 104.4 | 110.0 | 115.6 | 88 | 7.391 | 7.979 | 8.592 | | | | |
| 24 | 99.6 | 104.9 | 110.1 | 89 | 7.142 | 7.713 | 8.309 | | | | |
| 25 | 95.00 | 100.0 | 105.0 | 90 | 6.903 | 7.457 | 8.036 | | | | |