

ERTJ0EP683H R-T Characteristics

(for reference)

$$R_{25} = 68 \text{ kohm } \pm 3\%$$

$$B_{25/50} = 4050 \text{ K } \pm 2\%$$

| 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 | 2036 | 2251 | 2486 | 25 | 65.96 | 68.00 | 70.04 | 90 | 5.300 | 5.741 | 6.213 |
| -39 | 1910 | 2109 | 2327 | 26 | 63.02 | 65.03 | 67.04 | 91 | 5.129 | 5.559 | 6.020 |
| -38 | 1793 | 1978 | 2179 | 27 | 60.23 | 62.20 | 64.19 | 92 | 4.964 | 5.384 | 5.834 |
| -37 | 1684 | 1855 | 2041 | 28 | 57.57 | 59.51 | 61.46 | 93 | 4.805 | 5.215 | 5.655 |
| -36 | 1582 | 1741 | 1913 | 29 | 55.05 | 56.95 | 58.87 | 94 | 4.653 | 5.052 | 5.482 |
| -35 | 1487 | 1634 | 1793 | 30 | 52.64 | 54.51 | 56.39 | 95 | 4.505 | 4.896 | 5.315 |
| -34 | 1399 | 1535 | 1682 | 31 | 50.35 | 52.19 | 54.04 | 96 | 4.364 | 4.745 | 5.154 |
| -33 | 1316 | 1442 | 1579 | 32 | 48.17 | 49.97 | 51.79 | 97 | 4.227 | 4.599 | 4.999 |
| -32 | 1238 | 1355 | 1482 | 33 | 46.10 | 47.86 | 49.64 | 98 | 4.095 | 4.458 | 4.849 |
| -31 | 1166 | 1274 | 1392 | 34 | 44.12 | 45.85 | 47.60 | 99 | 3.969 | 4.323 | 4.705 |
| -30 | 1098 | 1199 | 1307 | 35 | 42.24 | 43.93 | 45.65 | 100 | 3.846 | 4.193 | 4.566 |
| -29 | 1034 | 1128 | 1229 | 36 | 40.45 | 42.10 | 43.78 | 101 | 3.729 | 4.067 | 4.432 |
| -28 | 974.8 | 1062 | 1155 | 37 | 38.74 | 40.36 | 42.01 | 102 | 3.616 | 3.946 | 4.302 |
| -27 | 919.1 | 999.9 | 1087 | 38 | 37.12 | 38.70 | 40.31 | 103 | 3.507 | 3.829 | 4.178 |
| -26 | 866.9 | 942.0 | 1023 | 39 | 35.57 | 37.11 | 38.69 | 104 | 3.402 | 3.717 | 4.057 |
| -25 | 818.0 | 887.8 | 962.6 | 40 | 34.09 | 35.60 | 37.15 | 105 | 3.300 | 3.608 | 3.941 |
| -24 | 772.1 | 837.0 | 906.5 | 41 | 32.68 | 34.16 | 35.67 | 106 | 3.203 | 3.503 | 3.829 |
| -23 | 729.1 | 789.4 | 853.9 | 42 | 31.33 | 32.78 | 34.26 | 107 | 3.108 | 3.402 | 3.721 |
| -22 | 688.7 | 744.8 | 804.8 | 43 | 30.05 | 31.46 | 32.91 | 108 | 3.017 | 3.305 | 3.616 |
| -21 | 650.8 | 703.0 | 758.7 | 44 | 28.83 | 30.21 | 31.62 | 109 | 2.929 | 3.210 | 3.515 |
| -20 | 615.1 | 663.7 | 715.5 | 45 | 27.66 | 29.01 | 30.39 | 110 | 2.845 | 3.119 | 3.417 |
| -19 | 581.7 | 626.9 | 675.0 | 46 | 26.55 | 27.87 | 29.22 | 111 | 2.762 | 3.031 | 3.322 |
| -18 | 550.2 | 592.3 | 637.1 | 47 | 25.49 | 26.77 | 28.09 | 112 | 2.683 | 2.945 | 3.230 |
| -17 | 520.6 | 559.8 | 601.5 | 48 | 24.47 | 25.73 | 27.02 | 113 | 2.606 | 2.863 | 3.142 |
| -16 | 492.8 | 529.3 | 568.1 | 49 | 23.51 | 24.73 | 25.99 | 114 | 2.532 | 2.783 | 3.056 |
| -15 | 466.6 | 500.6 | 536.7 | 50 | 22.58 | 23.77 | 25.01 | 115 | 2.460 | 2.705 | 2.972 |
| -14 | 442.0 | 473.7 | 507.2 | 51 | 21.70 | 22.86 | 24.07 | 116 | 2.391 | 2.630 | 2.891 |
| -13 | 418.7 | 448.3 | 479.5 | 52 | 20.85 | 21.99 | 23.17 | 117 | 2.323 | 2.558 | 2.813 |
| -12 | 396.9 | 424.4 | 453.4 | 53 | 20.05 | 21.15 | 22.30 | 118 | 2.258 | 2.487 | 2.737 |
| -11 | 376.3 | 401.9 | 429.0 | 54 | 19.27 | 20.36 | 21.48 | 119 | 2.195 | 2.419 | 2.663 |
| -10 | 356.8 | 380.8 | 405.9 | 55 | 18.54 | 19.59 | 20.69 | 120 | 2.134 | 2.353 | 2.592 |
| -9 | 338.5 | 360.8 | 384.2 | 56 | 17.83 | 18.86 | 19.93 | 121 | 2.074 | 2.288 | 2.522 |
| -8 | 321.2 | 342.0 | 363.8 | 57 | 17.15 | 18.16 | 19.20 | 122 | 2.016 | 2.226 | 2.455 |
| -7 | 304.9 | 324.3 | 344.6 | 58 | 16.51 | 17.48 | 18.51 | 123 | 1.960 | 2.165 | 2.389 |
| -6 | 289.5 | 307.6 | 326.5 | 59 | 15.89 | 16.84 | 17.84 | 124 | 1.906 | 2.106 | 2.326 |
| -5 | 274.9 | 291.8 | 309.4 | 60 | 15.29 | 16.22 | 17.20 | 125 | 1.853 | 2.049 | 2.264 |
| -4 | 261.2 | 276.9 | 293.4 | 61 | 14.72 | 15.63 | 16.58 | | | | |
| -3 | 248.2 | 262.9 | 278.2 | 62 | 14.18 | 15.07 | 15.99 | | | | |
| -2 | 235.9 | 249.6 | 263.9 | 63 | 13.66 | 14.52 | 15.43 | | | | |
| -1 | 224.3 | 237.1 | 250.4 | 64 | 13.16 | 14.00 | 14.88 | | | | |
| 0 | 213.3 | 225.2 | 237.6 | 65 | 12.68 | 13.50 | 14.36 | | | | |
| 1 | 202.9 | 214.0 | 225.6 | 66 | 12.22 | 13.02 | 13.86 | | | | |
| 2 | 193.1 | 203.5 | 214.2 | 67 | 11.78 | 12.56 | 13.38 | | | | |
| 3 | 183.8 | 193.4 | 203.5 | 68 | 11.35 | 12.12 | 12.92 | | | | |
| 4 | 174.9 | 184.0 | 193.3 | 69 | 10.95 | 11.69 | 12.47 | | | | |
| 5 | 166.6 | 175.0 | 183.7 | 70 | 10.56 | 11.28 | 12.05 | | | | |
| 6 | 158.7 | 166.5 | 174.6 | 71 | 10.18 | 10.89 | 11.64 | | | | |
| 7 | 151.2 | 158.5 | 166.0 | 72 | 9.826 | 10.52 | 11.24 | | | | |
| 8 | 144.1 | 150.9 | 157.9 | 73 | 9.481 | 10.15 | 10.86 | | | | |
| 9 | 137.3 | 143.7 | 150.2 | 74 | 9.150 | 9.806 | 10.50 | | | | |
| 10 | 130.9 | 136.9 | 143.0 | 75 | 8.832 | 9.472 | 10.15 | | | | |
| 11 | 124.8 | 130.4 | 136.1 | 76 | 8.527 | 9.150 | 9.811 | | | | |
| 12 | 119.1 | 124.3 | 129.5 | 77 | 8.233 | 8.841 | 9.486 | | | | |
| 13 | 113.6 | 118.5 | 123.4 | 78 | 7.951 | 8.544 | 9.173 | | | | |
| 14 | 108.5 | 112.9 | 117.5 | 79 | 7.680 | 8.259 | 8.873 | | | | |
| 15 | 103.5 | 107.7 | 112.0 | 80 | 7.420 | 7.984 | 8.583 | | | | |
| 16 | 98.86 | 102.8 | 106.7 | 81 | 7.169 | 7.719 | 8.305 | | | | |
| 17 | 94.42 | 98.05 | 101.7 | 82 | 6.928 | 7.465 | 8.036 | | | | |
| 18 | 90.20 | 93.59 | 97.01 | 83 | 6.696 | 7.220 | 7.778 | | | | |
| 19 | 86.19 | 89.34 | 92.53 | 84 | 6.473 | 6.984 | 7.529 | | | | |
| 20 | 82.38 | 85.32 | 88.28 | 85 | 6.259 | 6.757 | 7.289 | | | | |
| 21 | 78.76 | 81.49 | 84.24 | 86 | 6.052 | 6.539 | 7.058 | | | | |
| 22 | 75.32 | 77.86 | 80.41 | 87 | 5.854 | 6.328 | 6.835 | | | | |
| 23 | 72.04 | 74.40 | 76.77 | 88 | 5.662 | 6.125 | 6.620 | | | | |
| 24 | 68.93 | 71.12 | 73.32 | 89 | 5.478 | 5.929 | 6.413 | | | | |
| 25 | 65.96 | 68.00 | 70.04 | 90 | 5.300 | 5.741 | 6.213 | | | | |