

ERTJ1VR683H R-T Characteristics

(for reference)

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

$$B_{25/50} = 4250 \text{ K} \quad \pm 2\%$$

| Temp. T(deg.C) | Resistance (kohm) | | | Temp. T(deg.C) | Resistance (kohm) | | | Temp. T(deg.C) | Resistance (kohm) | | |
|-------------------|-------------------|--------|--------|-------------------|-------------------|--------|--------|-------------------|-------------------|--------|--------|
| | R min. | R cen. | R max. | | R min. | R cen. | R max. | | R min. | R cen. | R max. |
| -40 | 2637 | 2931 | 3255 | 25 | 65.96 | 68.00 | 70.04 | 90 | 4.677 | 5.078 | 5.509 |
| -39 | 2461 | 2731 | 3029 | 26 | 62.86 | 64.87 | 66.88 | 91 | 4.517 | 4.908 | 5.328 |
| -38 | 2298 | 2547 | 2820 | 27 | 59.93 | 61.90 | 63.87 | 92 | 4.363 | 4.744 | 5.154 |
| -37 | 2146 | 2376 | 2627 | 28 | 57.14 | 59.08 | 61.02 | 93 | 4.215 | 4.586 | 4.986 |
| -36 | 2006 | 2217 | 2449 | 29 | 54.51 | 56.40 | 58.31 | 94 | 4.073 | 4.435 | 4.824 |
| -35 | 1876 | 2071 | 2283 | 30 | 52.00 | 53.86 | 55.74 | 95 | 3.937 | 4.289 | 4.669 |
| -34 | 1755 | 1934 | 2130 | 31 | 49.63 | 51.45 | 53.29 | 96 | 3.805 | 4.149 | 4.519 |
| -33 | 1642 | 1808 | 1988 | 32 | 47.38 | 49.16 | 50.96 | 97 | 3.679 | 4.014 | 4.375 |
| -32 | 1538 | 1690 | 1857 | 33 | 45.24 | 46.98 | 48.75 | 98 | 3.558 | 3.884 | 4.236 |
| -31 | 1440 | 1581 | 1735 | 34 | 43.20 | 44.91 | 46.64 | 99 | 3.442 | 3.760 | 4.103 |
| -30 | 1350 | 1480 | 1621 | 35 | 41.28 | 42.94 | 44.64 | 100 | 3.330 | 3.640 | 3.975 |
| -29 | 1265 | 1386 | 1516 | 36 | 39.44 | 41.07 | 42.73 | 101 | 3.223 | 3.525 | 3.852 |
| -28 | 1187 | 1298 | 1418 | 37 | 37.70 | 39.29 | 40.92 | 102 | 3.119 | 3.414 | 3.733 |
| -27 | 1114 | 1216 | 1327 | 38 | 36.04 | 37.60 | 39.19 | 103 | 3.020 | 3.308 | 3.619 |
| -26 | 1045 | 1140 | 1243 | 39 | 34.47 | 35.99 | 37.54 | 104 | 2.925 | 3.205 | 3.509 |
| -25 | 981.7 | 1069 | 1164 | 40 | 32.97 | 34.46 | 35.97 | 105 | 2.833 | 3.107 | 3.403 |
| -24 | 922.6 | 1004 | 1091 | 41 | 31.54 | 32.99 | 34.48 | 106 | 2.745 | 3.011 | 3.301 |
| -23 | 867.0 | 942.1 | 1023 | 42 | 30.19 | 31.60 | 33.05 | 107 | 2.659 | 2.920 | 3.203 |
| -22 | 815.1 | 884.6 | 959.1 | 43 | 28.90 | 30.28 | 31.69 | 108 | 2.577 | 2.831 | 3.108 |
| -21 | 766.6 | 830.9 | 899.8 | 44 | 27.67 | 29.01 | 30.40 | 109 | 2.498 | 2.746 | 3.016 |
| -20 | 721.3 | 780.8 | 844.5 | 45 | 26.50 | 27.81 | 29.16 | 110 | 2.422 | 2.664 | 2.928 |
| -19 | 679.0 | 734.1 | 793.0 | 46 | 25.38 | 26.66 | 27.98 | 111 | 2.349 | 2.585 | 2.842 |
| -18 | 639.4 | 690.4 | 744.9 | 47 | 24.32 | 25.57 | 26.85 | 112 | 2.278 | 2.508 | 2.760 |
| -17 | 602.3 | 649.6 | 700.0 | 48 | 23.30 | 24.52 | 25.78 | 113 | 2.209 | 2.435 | 2.680 |
| -16 | 567.6 | 611.4 | 658.0 | 49 | 22.34 | 23.52 | 24.75 | 114 | 2.143 | 2.363 | 2.603 |
| -15 | 535.1 | 575.7 | 618.8 | 50 | 21.42 | 22.57 | 23.77 | 115 | 2.080 | 2.294 | 2.529 |
| -14 | 504.6 | 542.2 | 582.2 | 51 | 20.54 | 21.66 | 22.83 | 116 | 2.018 | 2.228 | 2.457 |
| -13 | 476.0 | 510.9 | 547.9 | 52 | 19.70 | 20.80 | 21.93 | 117 | 1.959 | 2.163 | 2.387 |
| -12 | 449.2 | 481.6 | 515.9 | 53 | 18.90 | 19.97 | 21.08 | 118 | 1.901 | 2.101 | 2.320 |
| -11 | 424.1 | 454.1 | 485.9 | 54 | 18.14 | 19.18 | 20.26 | 119 | 1.846 | 2.041 | 2.255 |
| -10 | 400.5 | 428.4 | 457.8 | 55 | 17.41 | 18.42 | 19.48 | 120 | 1.792 | 1.983 | 2.192 |
| -9 | 378.4 | 404.2 | 431.5 | 56 | 16.71 | 17.70 | 18.73 | 121 | 1.740 | 1.926 | 2.131 |
| -8 | 357.6 | 381.6 | 406.8 | 57 | 16.05 | 17.01 | 18.01 | 122 | 1.690 | 1.872 | 2.072 |
| -7 | 338.0 | 360.3 | 383.7 | 58 | 15.41 | 16.35 | 17.32 | 123 | 1.641 | 1.819 | 2.014 |
| -6 | 319.7 | 340.4 | 362.0 | 59 | 14.80 | 15.72 | 16.67 | 124 | 1.594 | 1.768 | 1.959 |
| -5 | 302.4 | 321.6 | 341.7 | 60 | 14.22 | 15.11 | 16.04 | 125 | 1.548 | 1.718 | 1.905 |
| -4 | 286.2 | 304.0 | 322.7 | 61 | 13.67 | 14.53 | 15.44 | | | | |
| -3 | 270.9 | 287.5 | 304.8 | 62 | 13.14 | 13.98 | 14.86 | | | | |
| -2 | 256.6 | 271.9 | 288.0 | 63 | 12.63 | 13.45 | 14.31 | | | | |
| -1 | 243.0 | 257.3 | 272.2 | 64 | 12.15 | 12.94 | 13.78 | | | | |
| 0 | 230.3 | 243.5 | 257.3 | 65 | 11.68 | 12.46 | 13.28 | | | | |
| 1 | 218.3 | 230.6 | 243.4 | 66 | 11.24 | 11.99 | 12.79 | | | | |
| 2 | 207.0 | 218.4 | 230.3 | 67 | 10.81 | 11.55 | 12.32 | | | | |
| 3 | 196.3 | 206.9 | 217.9 | 68 | 10.41 | 11.12 | 11.88 | | | | |
| 4 | 186.2 | 196.1 | 206.3 | 69 | 10.02 | 10.71 | 11.45 | | | | |
| 5 | 176.7 | 185.9 | 195.4 | 70 | 9.642 | 10.32 | 11.04 | | | | |
| 6 | 167.8 | 176.3 | 185.1 | 71 | 9.285 | 9.947 | 10.65 | | | | |
| 7 | 159.3 | 167.2 | 175.4 | 72 | 8.942 | 9.587 | 10.27 | | | | |
| 8 | 151.3 | 158.7 | 166.2 | 73 | 8.614 | 9.242 | 9.907 | | | | |
| 9 | 143.8 | 150.6 | 157.6 | 74 | 8.300 | 8.912 | 9.560 | | | | |
| 10 | 136.6 | 143.0 | 149.5 | 75 | 7.999 | 8.595 | 9.226 | | | | |
| 11 | 129.9 | 135.8 | 141.8 | 76 | 7.710 | 8.290 | 8.906 | | | | |
| 12 | 123.5 | 129.0 | 134.6 | 77 | 7.433 | 7.998 | 8.598 | | | | |
| 13 | 117.5 | 122.6 | 127.7 | 78 | 7.167 | 7.717 | 8.302 | | | | |
| 14 | 111.8 | 116.5 | 121.3 | 79 | 6.911 | 7.447 | 8.018 | | | | |
| 15 | 106.4 | 110.8 | 115.2 | 80 | 6.666 | 7.188 | 7.744 | | | | |
| 16 | 101.3 | 105.3 | 109.5 | 81 | 6.431 | 6.939 | 7.481 | | | | |
| 17 | 96.47 | 100.2 | 104.0 | 82 | 6.204 | 6.700 | 7.228 | | | | |
| 18 | 91.90 | 95.38 | 98.91 | 83 | 5.987 | 6.469 | 6.984 | | | | |
| 19 | 87.57 | 90.80 | 94.07 | 84 | 5.777 | 6.247 | 6.749 | | | | |
| 20 | 83.47 | 86.46 | 89.49 | 85 | 5.576 | 6.034 | 6.523 | | | | |
| 21 | 79.58 | 82.36 | 85.15 | 86 | 5.382 | 5.828 | 6.305 | | | | |
| 22 | 75.90 | 78.47 | 81.06 | 87 | 5.196 | 5.630 | 6.095 | | | | |
| 23 | 72.41 | 74.79 | 77.18 | 88 | 5.016 | 5.439 | 5.893 | | | | |
| 24 | 69.10 | 71.30 | 73.51 | 89 | 4.843 | 5.255 | 5.697 | | | | |
| 25 | 65.96 | 68.00 | 70.04 | 90 | 4.677 | 5.078 | 5.509 | | | | |