

ERTJ1VS104GA R-T Characteristics (for reference)

$R_{25} = 100 \text{ kohm} \pm 2\%$

$B_{25/85} = 4390 \text{ K} \pm 1\%$

| Temp. T(deg.C) | Resistance (kohm) | | | Temp. T(deg.C) | Resistance (kohm) | | | Temp. T(deg.C) | Resistance (kohm) | | |
|-------------------|-------------------|--------|--------|-------------------|-------------------|--------|--------|-------------------|-------------------|--------|--------|
| | R min. | R cen. | R max. | | R min. | R cen. | R max. | | R min. | R cen. | R max. |
| -40 | 4295 | 4553 | 4825 | 25 | 98.00 | 100.0 | 102.0 | 90 | 6.813 | 7.138 | 7.475 |
| -39 | 4001 | 4238 | 4488 | 26 | 93.37 | 95.32 | 97.27 | 91 | 6.582 | 6.898 | 7.227 |
| -38 | 3729 | 3947 | 4177 | 27 | 88.98 | 90.88 | 92.79 | 92 | 6.360 | 6.668 | 6.988 |
| -37 | 3477 | 3678 | 3890 | 28 | 84.82 | 86.67 | 88.53 | 93 | 6.147 | 6.447 | 6.758 |
| -36 | 3244 | 3429 | 3624 | 29 | 80.88 | 82.68 | 84.50 | 94 | 5.942 | 6.234 | 6.537 |
| -35 | 3028 | 3199 | 3378 | 30 | 77.14 | 78.90 | 80.67 | 95 | 5.744 | 6.028 | 6.324 |
| -34 | 2828 | 2985 | 3150 | 31 | 73.59 | 75.31 | 77.03 | 96 | 5.554 | 5.831 | 6.119 |
| -33 | 2642 | 2787 | 2939 | 32 | 70.22 | 71.89 | 73.58 | 97 | 5.371 | 5.641 | 5.922 |
| -32 | 2469 | 2603 | 2743 | 33 | 67.03 | 68.66 | 70.29 | 98 | 5.195 | 5.458 | 5.731 |
| -31 | 2309 | 2433 | 2562 | 34 | 64.00 | 65.58 | 67.17 | 99 | 5.026 | 5.282 | 5.548 |
| -30 | 2160 | 2274 | 2393 | 35 | 61.12 | 62.66 | 64.21 | 100 | 4.863 | 5.112 | 5.371 |
| -29 | 2022 | 2127 | 2237 | 36 | 58.38 | 59.88 | 61.39 | 101 | 4.706 | 4.948 | 5.201 |
| -28 | 1893 | 1991 | 2092 | 37 | 55.78 | 57.24 | 58.71 | 102 | 4.554 | 4.791 | 5.037 |
| -27 | 1774 | 1864 | 1957 | 38 | 53.31 | 54.73 | 56.16 | 103 | 4.409 | 4.639 | 4.879 |
| -26 | 1662 | 1745 | 1832 | 39 | 50.96 | 52.34 | 53.74 | 104 | 4.268 | 4.492 | 4.727 |
| -25 | 1559 | 1635 | 1715 | 40 | 48.73 | 50.07 | 51.43 | 105 | 4.133 | 4.351 | 4.580 |
| -24 | 1462 | 1533 | 1607 | 41 | 46.61 | 47.91 | 49.23 | 106 | 4.002 | 4.215 | 4.438 |
| -23 | 1372 | 1438 | 1506 | 42 | 44.59 | 45.85 | 47.14 | 107 | 3.877 | 4.084 | 4.301 |
| -22 | 1288 | 1349 | 1412 | 43 | 42.66 | 43.89 | 45.14 | 108 | 3.755 | 3.958 | 4.169 |
| -21 | 1210 | 1266 | 1324 | 44 | 40.83 | 42.03 | 43.24 | 109 | 3.638 | 3.836 | 4.042 |
| -20 | 1136 | 1189 | 1243 | 45 | 39.09 | 40.25 | 41.43 | 110 | 3.526 | 3.718 | 3.919 |
| -19 | 1068 | 1117 | 1167 | 46 | 37.43 | 38.56 | 39.71 | 111 | 3.417 | 3.604 | 3.801 |
| -18 | 1004 | 1049 | 1096 | 47 | 35.85 | 36.95 | 38.06 | 112 | 3.312 | 3.495 | 3.686 |
| -17 | 944.8 | 986.4 | 1029 | 48 | 34.34 | 35.41 | 36.49 | 113 | 3.211 | 3.389 | 3.576 |
| -16 | 889.0 | 927.6 | 967.5 | 49 | 32.91 | 33.94 | 35.00 | 114 | 3.113 | 3.287 | 3.469 |
| -15 | 836.9 | 872.7 | 909.7 | 50 | 31.54 | 32.54 | 33.57 | 115 | 3.018 | 3.188 | 3.366 |
| -14 | 788.2 | 821.4 | 855.6 | 51 | 30.23 | 31.21 | 32.21 | 116 | 2.927 | 3.093 | 3.266 |
| -13 | 742.5 | 773.3 | 805.1 | 52 | 28.98 | 29.93 | 30.90 | 117 | 2.839 | 3.000 | 3.170 |
| -12 | 699.8 | 728.4 | 757.9 | 53 | 27.80 | 28.72 | 29.66 | 118 | 2.754 | 2.912 | 3.077 |
| -11 | 659.8 | 686.3 | 713.6 | 54 | 26.66 | 27.56 | 28.47 | 119 | 2.672 | 2.826 | 2.987 |
| -10 | 622.2 | 646.9 | 672.3 | 55 | 25.58 | 26.45 | 27.34 | 120 | 2.593 | 2.742 | 2.900 |
| -9 | 587.1 | 610.0 | 633.5 | 56 | 24.54 | 25.39 | 26.26 | 121 | 2.516 | 2.662 | 2.816 |
| -8 | 554.1 | 575.3 | 597.2 | 57 | 23.56 | 24.38 | 25.22 | 122 | 2.442 | 2.584 | 2.734 |
| -7 | 523.1 | 542.9 | 563.2 | 58 | 22.61 | 23.41 | 24.23 | 123 | 2.370 | 2.509 | 2.656 |
| -6 | 494.1 | 512.4 | 531.3 | 59 | 21.71 | 22.49 | 23.28 | 124 | 2.301 | 2.437 | 2.580 |
| -5 | 466.8 | 483.9 | 501.4 | 60 | 20.85 | 21.61 | 22.38 | 125 | 2.234 | 2.367 | 2.506 |
| -4 | 441.1 | 457.0 | 473.3 | 61 | 20.03 | 20.76 | 21.52 | | | | |
| -3 | 417.1 | 431.8 | 447.0 | 62 | 19.25 | 19.96 | 20.69 | | | | |
| -2 | 394.4 | 408.2 | 422.2 | 63 | 18.50 | 19.19 | 19.90 | | | | |
| -1 | 373.1 | 385.9 | 399.0 | 64 | 17.78 | 18.45 | 19.14 | | | | |
| 0 | 353.1 | 365.0 | 377.2 | 65 | 17.09 | 17.74 | 18.42 | | | | |
| 1 | 334.3 | 345.4 | 356.7 | 66 | 16.44 | 17.07 | 17.72 | | | | |
| 2 | 316.5 | 326.8 | 337.4 | 67 | 15.81 | 16.42 | 17.06 | | | | |
| 3 | 299.8 | 309.4 | 319.2 | 68 | 15.21 | 15.81 | 16.42 | | | | |
| 4 | 284.1 | 293.0 | 302.1 | 69 | 14.63 | 15.21 | 15.81 | | | | |
| 5 | 269.2 | 277.6 | 286.0 | 70 | 14.08 | 14.65 | 15.23 | | | | |
| 6 | 255.3 | 263.0 | 270.9 | 71 | 13.56 | 14.11 | 14.67 | | | | |
| 7 | 242.1 | 249.3 | 256.6 | 72 | 13.05 | 13.59 | 14.14 | | | | |
| 8 | 229.6 | 236.3 | 243.2 | 73 | 12.57 | 13.09 | 13.63 | | | | |
| 9 | 217.9 | 224.1 | 230.5 | 74 | 12.11 | 12.61 | 13.13 | | | | |
| 10 | 206.8 | 212.6 | 218.5 | 75 | 11.66 | 12.15 | 12.66 | | | | |
| 11 | 196.4 | 201.8 | 207.3 | 76 | 11.24 | 11.72 | 12.21 | | | | |
| 12 | 186.5 | 191.6 | 196.7 | 77 | 10.83 | 11.30 | 11.78 | | | | |
| 13 | 177.2 | 181.9 | 186.6 | 78 | 10.44 | 10.89 | 11.36 | | | | |
| 14 | 168.4 | 172.8 | 177.2 | 79 | 10.07 | 10.51 | 10.96 | | | | |
| 15 | 160.1 | 164.1 | 168.3 | 80 | 9.706 | 10.13 | 10.58 | | | | |
| 16 | 152.2 | 156.0 | 159.8 | 81 | 9.361 | 9.777 | 10.21 | | | | |
| 17 | 144.8 | 148.3 | 151.9 | 82 | 9.030 | 9.434 | 9.853 | | | | |
| 18 | 137.7 | 141.0 | 144.3 | 83 | 8.712 | 9.106 | 9.513 | | | | |
| 19 | 131.1 | 134.1 | 137.2 | 84 | 8.407 | 8.790 | 9.186 | | | | |
| 20 | 124.8 | 127.6 | 130.5 | 85 | 8.114 | 8.486 | 8.872 | | | | |
| 21 | 118.8 | 121.5 | 124.2 | 86 | 7.833 | 8.195 | 8.571 | | | | |
| 22 | 113.2 | 115.7 | 118.2 | 87 | 7.562 | 7.915 | 8.280 | | | | |
| 23 | 107.9 | 110.2 | 112.5 | 88 | 7.302 | 7.646 | 8.002 | | | | |
| 24 | 102.8 | 104.9 | 107.1 | 89 | 7.053 | 7.387 | 7.733 | | | | |
| 25 | 98.00 | 100.0 | 102.0 | 90 | 6.813 | 7.138 | 7.475 | | | | |