

ERTJ1VA400J R-T Characteristics

(for reference)

$$R_{25} = 40 \text{ ohm} \quad \pm 5\%$$

$$B_{25/50} = 2800 \text{ K} \quad \pm 3\%$$

| Temp. T(deg.C) | Resistance (ohm) | | | Temp. T(deg.C) | Resistance (ohm) | | | Temp. T(deg.C) | Resistance (ohm) | | |
|-------------------|------------------|--------------|--------------|-------------------|------------------|--------------|--------------|-------------------|------------------|--------------|--------------|
| | R min. | R cen. | R max. | | R min. | R cen. | R max. | | R min. | R cen. | R max. |
| -40 | 466.9 | 531.2 | 602.7 | 25 | 38.00 | 40.00 | 42.00 | 90 | 6.762 | 7.485 | 8.264 |
| -39 | 444.9 | 505.4 | 572.6 | 26 | 36.79 | 38.76 | 40.74 | 91 | 6.618 | 7.330 | 8.098 |
| -38 | 424.1 | 481.0 | 544.2 | 27 | 35.63 | 37.57 | 39.53 | 92 | 6.478 | 7.179 | 7.937 |
| -37 | 404.5 | 458.1 | 517.5 | 28 | 34.51 | 36.43 | 38.36 | 93 | 6.342 | 7.033 | 7.780 |
| -36 | 385.9 | 436.3 | 492.2 | 29 | 33.43 | 35.32 | 37.23 | 94 | 6.209 | 6.890 | 7.627 |
| -35 | 368.2 | 415.8 | 468.4 | 30 | 32.40 | 34.26 | 36.14 | 95 | 6.081 | 6.752 | 7.478 |
| -34 | 351.5 | 396.4 | 445.9 | 31 | 31.40 | 33.23 | 35.09 | 96 | 5.955 | 6.616 | 7.333 |
| -33 | 335.7 | 378.0 | 424.6 | 32 | 30.44 | 32.25 | 34.08 | 97 | 5.833 | 6.485 | 7.191 |
| -32 | 320.7 | 360.6 | 404.5 | 33 | 29.51 | 31.29 | 33.10 | 98 | 5.715 | 6.357 | 7.053 |
| -31 | 306.5 | 344.1 | 385.5 | 34 | 28.62 | 30.37 | 32.16 | 99 | 5.599 | 6.232 | 6.919 |
| -30 | 293.0 | 328.5 | 367.5 | 35 | 27.76 | 29.49 | 31.25 | 100 | 5.487 | 6.110 | 6.788 |
| -29 | 280.2 | 313.8 | 350.4 | 36 | 26.93 | 28.63 | 30.37 | 101 | 5.377 | 5.992 | 6.660 |
| -28 | 268.1 | 299.7 | 334.3 | 37 | 26.13 | 27.81 | 29.52 | 102 | 5.270 | 5.876 | 6.536 |
| -27 | 256.5 | 286.5 | 319.1 | 38 | 25.36 | 27.01 | 28.70 | 103 | 5.166 | 5.764 | 6.414 |
| -26 | 245.6 | 273.8 | 304.6 | 39 | 24.62 | 26.25 | 27.91 | 104 | 5.065 | 5.654 | 6.295 |
| -25 | 235.1 | 261.9 | 290.9 | 40 | 23.91 | 25.51 | 27.14 | 105 | 4.966 | 5.547 | 6.180 |
| -24 | 225.3 | 250.6 | 278.0 | 41 | 23.21 | 24.79 | 26.41 | 106 | 4.870 | 5.442 | 6.067 |
| -23 | 215.9 | 239.8 | 265.7 | 42 | 22.55 | 24.10 | 25.69 | 107 | 4.776 | 5.341 | 5.957 |
| -22 | 206.9 | 229.5 | 253.9 | 43 | 21.91 | 23.43 | 25.00 | 108 | 4.685 | 5.241 | 5.849 |
| -21 | 198.4 | 219.7 | 242.8 | 44 | 21.28 | 22.79 | 24.33 | 109 | 4.596 | 5.145 | 5.745 |
| -20 | 190.2 | 210.5 | 232.3 | 45 | 20.68 | 22.16 | 23.69 | 110 | 4.509 | 5.050 | 5.642 |
| -19 | 182.5 | 201.6 | 222.3 | 46 | 20.11 | 21.56 | 23.06 | 111 | 4.424 | 4.958 | 5.542 |
| -18 | 175.1 | 193.3 | 212.7 | 47 | 19.55 | 20.98 | 22.46 | 112 | 4.341 | 4.868 | 5.445 |
| -17 | 168.1 | 185.3 | 203.7 | 48 | 19.01 | 20.41 | 21.87 | 113 | 4.261 | 4.780 | 5.350 |
| -16 | 161.4 | 177.7 | 195.1 | 49 | 18.48 | 19.87 | 21.31 | 114 | 4.182 | 4.695 | 5.257 |
| -15 | 155.0 | 170.4 | 186.9 | 50 | 17.98 | 19.34 | 20.76 | 115 | 4.106 | 4.611 | 5.166 |
| -14 | 148.9 | 163.6 | 179.1 | 51 | 17.49 | 18.83 | 20.23 | 116 | 4.031 | 4.530 | 5.077 |
| -13 | 143.1 | 157.0 | 171.7 | 52 | 17.02 | 18.34 | 19.71 | 117 | 3.958 | 4.450 | 4.991 |
| -12 | 137.6 | 150.7 | 164.7 | 53 | 16.56 | 17.86 | 19.22 | 118 | 3.887 | 4.372 | 4.906 |
| -11 | 132.3 | 144.7 | 158.0 | 54 | 16.12 | 17.40 | 18.73 | 119 | 3.818 | 4.297 | 4.824 |
| -10 | 127.3 | 139.1 | 151.6 | 55 | 15.70 | 16.95 | 18.27 | 120 | 3.750 | 4.223 | 4.743 |
| -9 | 122.4 | 133.6 | 145.5 | 56 | 15.28 | 16.52 | 17.81 | 121 | 3.684 | 4.150 | 4.664 |
| -8 | 117.8 | 128.4 | 139.7 | 57 | 14.88 | 16.10 | 17.37 | 122 | 3.619 | 4.080 | 4.588 |
| -7 | 113.4 | 123.5 | 134.1 | 58 | 14.50 | 15.69 | 16.95 | 123 | 3.556 | 4.011 | 4.512 |
| -6 | 109.2 | 118.8 | 128.8 | 59 | 14.12 | 15.30 | 16.54 | 124 | 3.495 | 3.944 | 4.439 |
| -5 | 105.2 | 114.2 | 123.8 | 60 | 13.76 | 14.92 | 16.13 | 125 | 3.435 | 3.878 | 4.367 |
| -4 | 101.3 | 109.9 | 119.0 | 61 | 13.41 | 14.55 | 15.75 | | | | |
| -3 | 97.62 | 105.8 | 114.4 | 62 | 13.07 | 14.19 | 15.37 | | | | |
| -2 | 94.09 | 101.9 | 110.0 | 63 | 12.74 | 13.84 | 15.01 | | | | |
| -1 | 90.72 | 98.09 | 105.8 | 64 | 12.42 | 13.51 | 14.65 | | | | |
| 0 | 87.48 | 94.49 | 101.8 | 65 | 12.11 | 13.18 | 14.31 | | | | |
| 1 | 84.38 | 91.04 | 97.98 | 66 | 11.81 | 12.86 | 13.97 | | | | |
| 2 | 81.41 | 87.74 | 94.32 | 67 | 11.52 | 12.56 | 13.65 | | | | |
| 3 | 78.56 | 84.58 | 90.82 | 68 | 11.24 | 12.26 | 13.33 | | | | |
| 4 | 75.83 | 81.55 | 87.47 | 69 | 10.97 | 11.97 | 13.03 | | | | |
| 5 | 73.21 | 78.64 | 84.27 | 70 | 10.70 | 11.69 | 12.73 | | | | |
| 6 | 70.70 | 75.86 | 81.20 | 71 | 10.44 | 11.41 | 12.44 | | | | |
| 7 | 68.29 | 73.20 | 78.26 | 72 | 10.19 | 11.15 | 12.16 | | | | |
| 8 | 65.97 | 70.64 | 75.45 | 73 | 9.952 | 10.89 | 11.89 | | | | |
| 9 | 63.75 | 68.19 | 72.75 | 74 | 9.717 | 10.64 | 11.63 | | | | |
| 10 | 61.62 | 65.84 | 70.17 | 75 | 9.489 | 10.40 | 11.37 | | | | |
| 11 | 59.57 | 63.59 | 67.70 | 76 | 9.268 | 10.17 | 11.12 | | | | |
| 12 | 57.60 | 61.42 | 65.33 | 77 | 9.053 | 9.936 | 10.88 | | | | |
| 13 | 55.72 | 59.35 | 63.06 | 78 | 8.845 | 9.714 | 10.64 | | | | |
| 14 | 53.90 | 57.35 | 60.88 | 79 | 8.642 | 9.498 | 10.41 | | | | |
| 15 | 52.16 | 55.44 | 58.79 | 80 | 8.446 | 9.288 | 10.19 | | | | |
| 16 | 50.48 | 53.61 | 56.78 | 81 | 8.255 | 9.084 | 9.972 | | | | |
| 17 | 48.87 | 51.84 | 54.86 | 82 | 8.069 | 8.886 | 9.761 | | | | |
| 18 | 47.32 | 50.15 | 53.01 | 83 | 7.889 | 8.693 | 9.556 | | | | |
| 19 | 45.83 | 48.52 | 51.24 | 84 | 7.714 | 8.506 | 9.356 | | | | |
| 20 | 44.40 | 46.96 | 49.54 | 85 | 7.544 | 8.324 | 9.161 | | | | |
| 21 | 43.02 | 45.45 | 47.91 | 86 | 7.378 | 8.147 | 8.972 | | | | |
| 22 | 41.69 | 44.01 | 46.34 | 87 | 7.218 | 7.974 | 8.788 | | | | |
| 23 | 40.41 | 42.62 | 44.84 | 88 | 7.061 | 7.807 | 8.609 | | | | |
| 24 | 39.18 | 41.28 | 43.39 | 89 | 6.909 | 7.643 | 8.434 | | | | |
| 25 | 38.00 | 40.00 | 42.00 | 90 | 6.762 | 7.485 | 8.264 | | | | |