

ERTJ0EA680J R-T Characteristics

(for reference)

$$R_{25} = 68 \text{ ohm } \pm 5\%$$

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

| Temp. | | | Resistance (ohm) | | | Temp. | | | Resistance (ohm) | | | Temp. | | | Resistance (ohm) | | |
|----------|--------------|--------------|------------------|----------|--------------|--------------|--------------|----------|------------------|--------------|--------------|----------|--------|--------|------------------|--|--|
| T(deg.C) | R min. | R cen. | R max. | T(deg.C) | R min. | R cen. | R max. | T(deg.C) | R min. | R cen. | R max. | T(deg.C) | R min. | R cen. | R max. | | |
| -40 | 793.8 | 903.0 | 1024.6 | 25 | 64.60 | 68.00 | 71.40 | 90 | 11.49 | 12.72 | 14.05 | | | | | | |
| -39 | 756.4 | 859.2 | 973.4 | 26 | 62.54 | 65.90 | 69.26 | 91 | 11.25 | 12.46 | 13.77 | | | | | | |
| -38 | 721.0 | 817.8 | 925.2 | 27 | 60.57 | 63.87 | 67.19 | 92 | 11.01 | 12.21 | 13.49 | | | | | | |
| -37 | 687.6 | 778.7 | 879.7 | 28 | 58.66 | 61.93 | 65.20 | 93 | 10.78 | 11.96 | 13.23 | | | | | | |
| -36 | 655.9 | 741.8 | 836.8 | 29 | 56.83 | 60.05 | 63.29 | 94 | 10.56 | 11.71 | 12.97 | | | | | | |
| -35 | 626.0 | 706.9 | 796.2 | 30 | 55.07 | 58.24 | 61.44 | 95 | 10.34 | 11.48 | 12.71 | | | | | | |
| -34 | 597.6 | 673.9 | 757.9 | 31 | 53.38 | 56.50 | 59.65 | 96 | 10.12 | 11.25 | 12.47 | | | | | | |
| -33 | 570.7 | 642.6 | 721.8 | 32 | 51.74 | 54.82 | 57.93 | 97 | 9.917 | 11.02 | 12.22 | | | | | | |
| -32 | 545.2 | 613.1 | 687.6 | 33 | 50.17 | 53.20 | 56.27 | 98 | 9.715 | 10.81 | 11.99 | | | | | | |
| -31 | 521.0 | 585.1 | 655.3 | 34 | 48.65 | 51.64 | 54.67 | 99 | 9.518 | 10.59 | 11.76 | | | | | | |
| -30 | 498.1 | 558.5 | 624.7 | 35 | 47.19 | 50.13 | 53.12 | 100 | 9.327 | 10.39 | 11.54 | | | | | | |
| -29 | 476.4 | 533.4 | 595.8 | 36 | 45.78 | 48.68 | 51.63 | 101 | 9.141 | 10.19 | 11.32 | | | | | | |
| -28 | 455.7 | 509.6 | 568.4 | 37 | 44.43 | 47.28 | 50.19 | 102 | 8.960 | 9.990 | 11.11 | | | | | | |
| -27 | 436.1 | 487.0 | 542.4 | 38 | 43.12 | 45.93 | 48.79 | 103 | 8.783 | 9.798 | 10.90 | | | | | | |
| -26 | 417.5 | 465.5 | 517.8 | 39 | 41.86 | 44.62 | 47.45 | 104 | 8.610 | 9.612 | 10.70 | | | | | | |
| -25 | 399.7 | 445.2 | 494.6 | 40 | 40.64 | 43.36 | 46.15 | 105 | 8.443 | 9.430 | 10.51 | | | | | | |
| -24 | 383.0 | 426.0 | 472.6 | 41 | 39.47 | 42.14 | 44.89 | 106 | 8.279 | 9.252 | 10.31 | | | | | | |
| -23 | 367.0 | 407.6 | 451.6 | 42 | 38.33 | 40.97 | 43.68 | 107 | 8.120 | 9.079 | 10.13 | | | | | | |
| -22 | 351.7 | 390.1 | 431.7 | 43 | 37.24 | 39.83 | 42.50 | 108 | 7.964 | 8.910 | 9.944 | | | | | | |
| -21 | 337.2 | 373.6 | 412.8 | 44 | 36.18 | 38.74 | 41.37 | 109 | 7.813 | 8.746 | 9.766 | | | | | | |
| -20 | 323.4 | 357.8 | 394.9 | 45 | 35.16 | 37.68 | 40.27 | 110 | 7.665 | 8.585 | 9.592 | | | | | | |
| -19 | 310.2 | 342.8 | 377.8 | 46 | 34.18 | 36.65 | 39.20 | 111 | 7.521 | 8.428 | 9.422 | | | | | | |
| -18 | 297.7 | 328.5 | 361.7 | 47 | 33.23 | 35.66 | 38.18 | 112 | 7.380 | 8.276 | 9.256 | | | | | | |
| -17 | 285.8 | 315.0 | 346.3 | 48 | 32.31 | 34.70 | 37.18 | 113 | 7.243 | 8.126 | 9.094 | | | | | | |
| -16 | 274.4 | 302.1 | 331.7 | 49 | 31.42 | 33.78 | 36.22 | 114 | 7.110 | 7.981 | 8.936 | | | | | | |
| -15 | 263.6 | 289.8 | 317.8 | 50 | 30.57 | 32.88 | 35.29 | 115 | 6.980 | 7.839 | 8.782 | | | | | | |
| -14 | 253.2 | 278.0 | 304.5 | 51 | 29.74 | 32.02 | 34.39 | 116 | 6.853 | 7.700 | 8.631 | | | | | | |
| -13 | 243.3 | 266.9 | 291.9 | 52 | 28.93 | 31.18 | 33.51 | 117 | 6.729 | 7.565 | 8.484 | | | | | | |
| -12 | 233.9 | 256.2 | 280.0 | 53 | 28.16 | 30.37 | 32.67 | 118 | 6.608 | 7.433 | 8.341 | | | | | | |
| -11 | 224.9 | 246.1 | 268.5 | 54 | 27.41 | 29.58 | 31.85 | 119 | 6.490 | 7.304 | 8.200 | | | | | | |
| -10 | 216.3 | 236.4 | 257.7 | 55 | 26.68 | 28.82 | 31.05 | 120 | 6.375 | 7.178 | 8.063 | | | | | | |
| -9 | 208.1 | 227.2 | 247.3 | 56 | 25.98 | 28.08 | 30.28 | 121 | 6.262 | 7.056 | 7.930 | | | | | | |
| -8 | 200.3 | 218.3 | 237.4 | 57 | 25.30 | 27.37 | 29.54 | 122 | 6.153 | 6.936 | 7.799 | | | | | | |
| -7 | 192.8 | 209.9 | 228.0 | 58 | 24.64 | 26.68 | 28.81 | 123 | 6.046 | 6.819 | 7.671 | | | | | | |
| -6 | 185.6 | 201.9 | 219.0 | 59 | 24.01 | 26.01 | 28.11 | 124 | 5.942 | 6.705 | 7.546 | | | | | | |
| -5 | 178.8 | 194.2 | 210.4 | 60 | 23.39 | 25.36 | 27.43 | 125 | 5.840 | 6.593 | 7.425 | | | | | | |
| -4 | 172.2 | 186.9 | 202.3 | 61 | 22.79 | 24.73 | 26.77 | | | | | | | | | | |
| -3 | 166.0 | 179.9 | 194.5 | 62 | 22.22 | 24.12 | 26.13 | | | | | | | | | | |
| -2 | 160.0 | 173.2 | 187.0 | 63 | 21.66 | 23.53 | 25.51 | | | | | | | | | | |
| -1 | 154.2 | 166.8 | 179.9 | 64 | 21.11 | 22.96 | 24.91 | | | | | | | | | | |
| 0 | 148.7 | 160.6 | 173.1 | 65 | 20.59 | 22.40 | 24.32 | | | | | | | | | | |
| 1 | 143.4 | 154.8 | 166.6 | 66 | 20.08 | 21.87 | 23.75 | | | | | | | | | | |
| 2 | 138.4 | 149.2 | 160.3 | 67 | 19.58 | 21.34 | 23.20 | | | | | | | | | | |
| 3 | 133.6 | 143.8 | 154.4 | 68 | 19.10 | 20.84 | 22.67 | | | | | | | | | | |
| 4 | 128.9 | 138.6 | 148.7 | 69 | 18.64 | 20.34 | 22.15 | | | | | | | | | | |
| 5 | 124.5 | 133.7 | 143.3 | 70 | 18.19 | 19.87 | 21.65 | | | | | | | | | | |
| 6 | 120.2 | 129.0 | 138.0 | 71 | 17.75 | 19.40 | 21.16 | | | | | | | | | | |
| 7 | 116.1 | 124.4 | 133.0 | 72 | 17.33 | 18.95 | 20.68 | | | | | | | | | | |
| 8 | 112.2 | 120.1 | 128.3 | 73 | 16.92 | 18.52 | 20.22 | | | | | | | | | | |
| 9 | 108.4 | 115.9 | 123.7 | 74 | 16.52 | 18.09 | 19.77 | | | | | | | | | | |
| 10 | 104.8 | 111.9 | 119.3 | 75 | 16.13 | 17.68 | 19.33 | | | | | | | | | | |
| 11 | 101.3 | 108.1 | 115.1 | 76 | 15.76 | 17.28 | 18.91 | | | | | | | | | | |
| 12 | 97.93 | 104.4 | 111.1 | 77 | 15.39 | 16.89 | 18.49 | | | | | | | | | | |
| 13 | 94.72 | 100.9 | 107.2 | 78 | 15.04 | 16.51 | 18.09 | | | | | | | | | | |
| 14 | 91.63 | 97.50 | 103.5 | 79 | 14.69 | 16.15 | 17.70 | | | | | | | | | | |
| 15 | 88.67 | 94.25 | 99.94 | 80 | 14.36 | 15.79 | 17.32 | | | | | | | | | | |
| 16 | 85.82 | 91.13 | 96.53 | 81 | 14.03 | 15.44 | 16.95 | | | | | | | | | | |
| 17 | 83.08 | 88.13 | 93.26 | 82 | 13.72 | 15.11 | 16.59 | | | | | | | | | | |
| 18 | 80.44 | 85.25 | 90.12 | 83 | 13.41 | 14.78 | 16.24 | | | | | | | | | | |
| 19 | 77.91 | 82.49 | 87.11 | 84 | 13.11 | 14.46 | 15.90 | | | | | | | | | | |
| 20 | 75.47 | 79.83 | 84.22 | 85 | 12.82 | 14.15 | 15.57 | | | | | | | | | | |
| 21 | 73.13 | 77.27 | 81.45 | 86 | 12.54 | 13.85 | 15.25 | | | | | | | | | | |
| 22 | 70.87 | 74.82 | 78.78 | 87 | 12.27 | 13.56 | 14.94 | | | | | | | | | | |
| 23 | 68.70 | 72.45 | 76.22 | 88 | 12.00 | 13.27 | 14.63 | | | | | | | | | | |
| 24 | 66.61 | 70.18 | 73.76 | 89 | 11.75 | 12.99 | 14.34 | | | | | | | | | | |
| 25 | 64.60 | 68.00 | 71.40 | 90 | 11.49 | 12.72 | 14.05 | | | | | | | | | | |