

ERTJ0EA220J R-T Characteristics

(for reference)

$$R_{25} = 22 \text{ ohm} \quad \pm 5\%$$

$$B_{25/50} = 2750 \text{ K} \quad \pm 3\%$$

| 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 | 252.5 | 287.1 | 325.6 | 25 | 20.90 | 22.00 | 23.10 | 90 | 3.929 | 4.342 | 4.787 | | | | | | |
| -39 | 240.5 | 273.1 | 309.2 | 26 | 20.25 | 21.33 | 22.42 | 91 | 3.851 | 4.258 | 4.697 | | | | | | |
| -38 | 229.3 | 259.9 | 293.9 | 27 | 19.61 | 20.69 | 21.76 | 92 | 3.775 | 4.177 | 4.610 | | | | | | |
| -37 | 218.6 | 247.4 | 279.4 | 28 | 19.01 | 20.06 | 21.12 | 93 | 3.701 | 4.098 | 4.525 | | | | | | |
| -36 | 208.5 | 235.6 | 265.7 | 29 | 18.42 | 19.46 | 20.51 | 94 | 3.629 | 4.020 | 4.442 | | | | | | |
| -35 | 198.9 | 224.5 | 252.8 | 30 | 17.86 | 18.89 | 19.92 | 95 | 3.560 | 3.945 | 4.362 | | | | | | |
| -34 | 189.9 | 214.0 | 240.6 | 31 | 17.32 | 18.33 | 19.35 | 96 | 3.492 | 3.872 | 4.283 | | | | | | |
| -33 | 181.3 | 204.1 | 229.1 | 32 | 16.80 | 17.79 | 18.80 | 97 | 3.426 | 3.801 | 4.207 | | | | | | |
| -32 | 173.2 | 194.7 | 218.2 | 33 | 16.29 | 17.28 | 18.27 | 98 | 3.361 | 3.732 | 4.133 | | | | | | |
| -31 | 165.5 | 185.8 | 208.0 | 34 | 15.81 | 16.78 | 17.76 | 99 | 3.299 | 3.664 | 4.060 | | | | | | |
| -30 | 158.3 | 177.4 | 198.3 | 35 | 15.34 | 16.29 | 17.26 | 100 | 3.238 | 3.599 | 3.990 | | | | | | |
| -29 | 151.3 | 169.4 | 189.1 | 36 | 14.89 | 15.83 | 16.79 | 101 | 3.179 | 3.535 | 3.921 | | | | | | |
| -28 | 144.8 | 161.8 | 180.4 | 37 | 14.46 | 15.38 | 16.32 | 102 | 3.122 | 3.473 | 3.854 | | | | | | |
| -27 | 138.6 | 154.6 | 172.2 | 38 | 14.04 | 14.95 | 15.88 | 103 | 3.066 | 3.412 | 3.789 | | | | | | |
| -26 | 132.6 | 147.8 | 164.4 | 39 | 13.63 | 14.53 | 15.45 | 104 | 3.011 | 3.353 | 3.726 | | | | | | |
| -25 | 127.0 | 141.4 | 157.0 | 40 | 13.24 | 14.13 | 15.03 | 105 | 2.958 | 3.296 | 3.664 | | | | | | |
| -24 | 121.7 | 135.2 | 150.0 | 41 | 12.87 | 13.74 | 14.63 | 106 | 2.906 | 3.240 | 3.603 | | | | | | |
| -23 | 116.6 | 129.4 | 143.3 | 42 | 12.51 | 13.36 | 14.24 | 107 | 2.856 | 3.185 | 3.544 | | | | | | |
| -22 | 111.8 | 123.9 | 137.0 | 43 | 12.16 | 13.00 | 13.87 | 108 | 2.806 | 3.132 | 3.487 | | | | | | |
| -21 | 107.2 | 118.7 | 131.1 | 44 | 11.82 | 12.65 | 13.50 | 109 | 2.758 | 3.080 | 3.430 | | | | | | |
| -20 | 102.8 | 113.7 | 125.4 | 45 | 11.49 | 12.31 | 13.15 | 110 | 2.712 | 3.029 | 3.376 | | | | | | |
| -19 | 98.66 | 109.0 | 120.0 | 46 | 11.18 | 11.98 | 12.81 | 111 | 2.666 | 2.980 | 3.322 | | | | | | |
| -18 | 94.70 | 104.5 | 114.9 | 47 | 10.87 | 11.67 | 12.48 | 112 | 2.622 | 2.932 | 3.270 | | | | | | |
| -17 | 90.93 | 100.2 | 110.1 | 48 | 10.58 | 11.36 | 12.17 | 113 | 2.578 | 2.885 | 3.219 | | | | | | |
| -16 | 87.33 | 96.08 | 105.4 | 49 | 10.30 | 11.06 | 11.86 | 114 | 2.536 | 2.839 | 3.170 | | | | | | |
| -15 | 83.90 | 92.20 | 101.1 | 50 | 10.02 | 10.78 | 11.56 | 115 | 2.495 | 2.794 | 3.121 | | | | | | |
| -14 | 80.63 | 88.49 | 96.88 | 51 | 9.757 | 10.50 | 11.27 | 116 | 2.455 | 2.750 | 3.074 | | | | | | |
| -13 | 77.51 | 84.96 | 92.90 | 52 | 9.501 | 10.23 | 10.99 | 117 | 2.416 | 2.708 | 3.027 | | | | | | |
| -12 | 74.53 | 81.60 | 89.12 | 53 | 9.253 | 9.974 | 10.72 | 118 | 2.377 | 2.666 | 2.982 | | | | | | |
| -11 | 71.69 | 78.40 | 85.52 | 54 | 9.013 | 9.722 | 10.46 | 119 | 2.340 | 2.625 | 2.938 | | | | | | |
| -10 | 68.98 | 75.34 | 82.08 | 55 | 8.781 | 9.479 | 10.21 | 120 | 2.304 | 2.586 | 2.895 | | | | | | |
| -9 | 66.38 | 72.42 | 78.81 | 56 | 8.556 | 9.243 | 9.961 | 121 | 2.268 | 2.547 | 2.853 | | | | | | |
| -8 | 63.91 | 69.64 | 75.69 | 57 | 8.338 | 9.015 | 9.723 | 122 | 2.233 | 2.509 | 2.812 | | | | | | |
| -7 | 61.54 | 66.98 | 72.72 | 58 | 8.128 | 8.794 | 9.491 | 123 | 2.199 | 2.472 | 2.772 | | | | | | |
| -6 | 59.28 | 64.44 | 69.88 | 59 | 7.924 | 8.580 | 9.267 | 124 | 2.166 | 2.436 | 2.732 | | | | | | |
| -5 | 57.11 | 62.01 | 67.17 | 60 | 7.726 | 8.372 | 9.049 | 125 | 2.134 | 2.401 | 2.694 | | | | | | |
| -4 | 55.04 | 59.70 | 64.59 | 61 | 7.535 | 8.171 | 8.838 | | | | | | | | | | |
| -3 | 53.06 | 57.48 | 62.12 | 62 | 7.350 | 7.976 | 8.634 | | | | | | | | | | |
| -2 | 51.16 | 55.36 | 59.76 | 63 | 7.171 | 7.787 | 8.435 | | | | | | | | | | |
| -1 | 49.34 | 53.33 | 57.51 | 64 | 6.997 | 7.604 | 8.243 | | | | | | | | | | |
| 0 | 47.60 | 51.39 | 55.36 | 65 | 6.829 | 7.427 | 8.056 | | | | | | | | | | |
| 1 | 45.93 | 49.54 | 53.30 | 66 | 6.666 | 7.254 | 7.875 | | | | | | | | | | |
| 2 | 44.33 | 47.76 | 51.33 | 67 | 6.508 | 7.088 | 7.699 | | | | | | | | | | |
| 3 | 42.80 | 46.06 | 49.44 | 68 | 6.355 | 6.926 | 7.529 | | | | | | | | | | |
| 4 | 41.32 | 44.43 | 47.64 | 69 | 6.207 | 6.769 | 7.363 | | | | | | | | | | |
| 5 | 39.91 | 42.86 | 45.91 | 70 | 6.064 | 6.617 | 7.203 | | | | | | | | | | |
| 6 | 38.56 | 41.36 | 44.26 | 71 | 5.924 | 6.469 | 7.047 | | | | | | | | | | |
| 7 | 37.26 | 39.93 | 42.68 | 72 | 5.789 | 6.326 | 6.895 | | | | | | | | | | |
| 8 | 36.01 | 38.55 | 41.16 | 73 | 5.658 | 6.187 | 6.748 | | | | | | | | | | |
| 9 | 34.81 | 37.23 | 39.71 | 74 | 5.531 | 6.052 | 6.605 | | | | | | | | | | |
| 10 | 33.66 | 35.96 | 38.32 | 75 | 5.407 | 5.921 | 6.466 | | | | | | | | | | |
| 11 | 32.56 | 34.74 | 36.99 | 76 | 5.287 | 5.793 | 6.331 | | | | | | | | | | |
| 12 | 31.50 | 33.58 | 35.71 | 77 | 5.171 | 5.669 | 6.200 | | | | | | | | | | |
| 13 | 30.48 | 32.46 | 34.48 | 78 | 5.058 | 5.549 | 6.072 | | | | | | | | | | |
| 14 | 29.50 | 31.38 | 33.30 | 79 | 4.948 | 5.432 | 5.948 | | | | | | | | | | |
| 15 | 28.55 | 30.35 | 32.18 | 80 | 4.842 | 5.318 | 5.827 | | | | | | | | | | |
| 16 | 27.65 | 29.36 | 31.09 | 81 | 4.738 | 5.208 | 5.710 | | | | | | | | | | |
| 17 | 26.78 | 28.40 | 30.05 | 82 | 4.638 | 5.101 | 5.596 | | | | | | | | | | |
| 18 | 25.94 | 27.49 | 29.06 | 83 | 4.540 | 4.996 | 5.485 | | | | | | | | | | |
| 19 | 25.14 | 26.61 | 28.10 | 84 | 4.445 | 4.895 | 5.377 | | | | | | | | | | |
| 20 | 24.36 | 25.76 | 27.18 | 85 | 4.353 | 4.796 | 5.272 | | | | | | | | | | |
| 21 | 23.61 | 24.95 | 26.30 | 86 | 4.264 | 4.701 | 5.170 | | | | | | | | | | |
| 22 | 22.90 | 24.17 | 25.45 | 87 | 4.176 | 4.607 | 5.070 | | | | | | | | | | |
| 23 | 22.21 | 23.42 | 24.64 | 88 | 4.092 | 4.517 | 4.973 | | | | | | | | | | |
| 24 | 21.54 | 22.70 | 23.85 | 89 | 4.009 | 4.428 | 4.879 | | | | | | | | | | |
| 25 | 20.90 | 22.00 | 23.10 | 90 | 3.929 | 4.342 | 4.787 | | | | | | | | | | |