# ERTJZEV104F R-T Characteristics (for reference)

**$R_{25}$ = 100 kohm +/-1%**

**$B_{25/50}$ = 4700 K +/-1%**

| Temp. | Resistance (kohm) | | | Temp. | Resistance (kohm) | | | Temp. | Resistance (kohm) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| T(deg.C) | R min. | R typ. | R max. | T(deg.C) | R min. | R typ. | R max. | T(deg.C) | R min. | R typ. | R max. |
| **-40** | **5679** | **5976** | **6288** | **25** | **99.00** | **100.0** | **101.0** | **90** | **5.446** | **5.662** | **5.885** |
| **-39** | 5268 | 5540 | 5824 | **26** | 93.94 | 94.94 | 95.94 | **91** | 5.246 | 5.456 | 5.673 |
| **-38** | 4890 | 5138 | 5397 | **27** | 89.16 | 90.16 | 91.15 | **92** | 5.054 | 5.258 | 5.469 |
| **-37** | 4541 | 4767 | 5004 | **28** | 84.65 | 85.64 | 86.63 | **93** | 4.870 | 5.068 | 5.274 |
| **-36** | 4218 | 4425 | 4642 | **29** | 80.40 | 81.38 | 82.36 | **94** | 4.694 | 4.886 | 5.086 |
| **-35** | **3921** | **4110** | **4309** | **30** | **76.37** | **77.34** | **78.32** | **95** | **4.524** | **4.712** | **4.906** |
| **-34** | 3646 | 3819 | 4001 | **31** | 72.57 | 73.53 | 74.49 | **96** | 4.362 | 4.544 | 4.734 |
| **-33** | 3392 | 3551 | 3717 | **32** | 68.98 | 69.92 | 70.88 | **97** | 4.206 | 4.383 | 4.568 |
| **-32** | 3157 | 3303 | 3454 | **33** | 65.58 | 66.51 | 67.45 | **98** | 4.057 | 4.229 | 4.409 |
| **-31** | 2940 | 3073 | 3212 | **34** | 62.36 | 63.28 | 64.21 | **99** | 3.913 | 4.081 | 4.256 |
| **-30** | **2739** | **2861** | **2988** | **35** | **59.32** | **60.23** | **61.14** | **100** | **3.775** | **3.939** | **4.109** |
| **-29** | 2553 | 2665 | 2781 | **36** | 56.45 | 57.33 | 58.23 | **101** | 3.643 | 3.802 | 3.968 |
| **-28** | 2381 | 2483 | 2590 | **37** | 53.72 | 54.59 | 55.47 | **102** | 3.516 | 3.671 | 3.833 |
| **-27** | 2221 | 2315 | 2413 | **38** | 51.14 | 52.00 | 52.86 | **103** | 3.395 | 3.545 | 3.703 |
| **-26** | 2073 | 2159 | 2249 | **39** | 48.70 | 49.54 | 50.39 | **104** | 3.278 | 3.425 | 3.577 |
| **-25** | **1935** | **2014** | **2097** | **40** | **46.38** | **47.21** | **48.04** | **105** | **3.165** | **3.308** | **3.457** |
| **-24** | 1807 | 1880 | 1955 | **41** | 44.19 | 44.99 | 45.81 | **106** | 3.058 | 3.197 | 3.342 |
| **-23** | 1689 | 1755 | 1825 | **42** | 42.11 | 42.90 | 43.69 | **107** | 2.954 | 3.089 | 3.231 |
| **-22** | 1579 | 1640 | 1704 | **43** | 40.14 | 40.91 | 41.69 | **108** | 2.854 | 2.986 | 3.124 |
| **-21** | 1477 | 1533 | 1591 | **44** | 38.27 | 39.02 | 39.78 | **109** | 2.758 | 2.887 | 3.021 |
| **-20** | **1382** | **1433** | **1487** | **45** | **36.49** | **37.23** | **37.97** | **110** | **2.666** | **2.791** | **2.922** |
| **-19** | 1293 | 1341 | 1390 | **46** | 34.81 | 35.53 | 36.26 | **111** | 2.577 | 2.699 | 2.826 |
| **-18** | 1211 | 1255 | 1300 | **47** | 33.21 | 33.91 | 34.62 | **112** | 2.492 | 2.610 | 2.734 |
| **-17** | 1135 | 1175 | 1216 | **48** | 31.70 | 32.38 | 33.07 | **113** | 2.409 | 2.525 | 2.646 |
| **-16** | 1063 | 1100 | 1138 | **49** | 30.26 | 30.92 | 31.60 | **114** | 2.330 | 2.443 | 2.561 |
| **-15** | **996.8** | **1031** | **1065** | **50** | **28.89** | **29.54** | **30.20** | **115** | **2.254** | **2.364** | **2.478** |
| **-14** | 934.8 | 965.9 | 998.0 | **51** | 27.59 | 28.22 | 28.86 | **116** | 2.181 | 2.287 | 2.399 |
| **-13** | 877.1 | 905.7 | 935.1 | **52** | 26.35 | 26.97 | 27.59 | **117** | 2.110 | 2.214 | 2.323 |
| **-12** | 823.2 | 849.5 | 876.5 | **53** | 25.17 | 25.77 | 26.39 | **118** | 2.042 | 2.143 | 2.249 |
| **-11** | 772.9 | 797.1 | 821.9 | **54** | 24.05 | 24.64 | 25.24 | **119** | 1.976 | 2.075 | 2.178 |
| **-10** | **725.9** | **748.2** | **771.0** | **55** | **22.99** | **23.56** | **24.14** | **120** | **1.913** | **2.009** | **2.110** |
| **-9** | 682.1 | 702.5 | 723.5 | **56** | 21.97 | 22.53 | 23.10 | **121** | 1.851 | 1.945 | 2.044 |
| **-8** | 641.1 | 659.9 | 679.2 | **57** | 21.01 | 21.55 | 22.10 | **122** | 1.792 | 1.884 | 1.980 |
| **-7** | 602.8 | 620.1 | 637.8 | **58** | 20.09 | 20.62 | 21.16 | **123** | 1.736 | 1.825 | 1.918 |
| **-6** | 567.0 | 582.9 | 599.2 | **59** | 19.22 | 19.73 | 20.26 | **124** | 1.681 | 1.768 | 1.859 |
| **-5** | **533.5** | **548.1** | **563.1** | **60** | **18.39** | **18.89** | **19.40** | **125** | **1.628** | **1.712** | **1.801** |
| **-4** | 502.1 | 515.6 | 529.3 | **61** | 17.60 | 18.08 | 18.58 | | | | |
| **-3** | 472.7 | 485.1 | 497.8 | **62** | 16.85 | 17.32 | 17.80 | | | | |
| **-2** | 445.2 | 456.6 | 468.2 | **63** | 16.13 | 16.59 | 17.06 | | | | |
| **-1** | 419.5 | 429.9 | 440.6 | **64** | 15.45 | 15.89 | 16.35 | | | | |
| **0** | **395.3** | **405.0** | **414.8** | **65** | **14.80** | **15.23** | **15.68** | | | | |
| **1** | 372.7 | 381.5 | 390.5 | **66** | 14.18 | 14.60 | 15.03 | | | | |
| **2** | 351.5 | 359.6 | 367.9 | **67** | 13.59 | 14.00 | 14.42 | | | | |
| **3** | 331.5 | 339.0 | 346.6 | **68** | 13.03 | 13.43 | 13.84 | | | | |
| **4** | 312.8 | 319.7 | 326.6 | **69** | 12.49 | 12.88 | 13.28 | | | | |
| **5** | **295.2** | **301.5** | **307.9** | **70** | **11.98** | **12.36** | **12.75** | | | | |
| **6** | 278.7 | 284.5 | 290.4 | **71** | 11.50 | 11.86 | 12.24 | | | | |
| **7** | 263.2 | 268.5 | 273.9 | **72** | 11.03 | 11.39 | 11.75 | | | | |
| **8** | 248.7 | 253.5 | 258.5 | **73** | 10.59 | 10.94 | 11.29 | | | | |
| **9** | 235.0 | 239.4 | 244.0 | **74** | 10.17 | 10.50 | 10.85 | | | | |
| **10** | **222.1** | **226.2** | **230.3** | **75** | **9.763** | **10.09** | **10.43** | | | | |
| **11** | 210.0 | 213.8 | 217.6 | **76** | 9.378 | 9.696 | 10.02 | | | | |
| **12** | 198.6 | 202.1 | 205.5 | **77** | 9.010 | 9.319 | 9.639 | | | | |
| **13** | 187.9 | 191.1 | 194.2 | **78** | 8.658 | 8.959 | 9.269 | | | | |
| **14** | 177.9 | 180.7 | 183.6 | **79** | 8.321 | 8.614 | 8.916 | | | | |
| **15** | **168.4** | **171.0** | **173.6** | **80** | **7.999** | **8.284** | **8.578** | | | | |
| **16** | 159.5 | 161.8 | 164.2 | **81** | 7.692 | 7.968 | 8.254 | | | | |
| **17** | 151.0 | 153.2 | 155.4 | **82** | 7.397 | 7.666 | 7.944 | | | | |
| **18** | 143.1 | 145.1 | 147.1 | **83** | 7.115 | 7.377 | 7.647 | | | | |
| **19** | 135.7 | 137.5 | 139.3 | **84** | 6.845 | 7.099 | 7.362 | | | | |
| **20** | **128.6** | **130.3** | **131.9** | **85** | **6.586** | **6.834** | **7.090** | | | | |
| **21** | 122.0 | 123.5 | 125.0 | **86** | 6.338 | 6.579 | 6.828 | | | | |
| **22** | 115.7 | 117.1 | 118.4 | **87** | 6.101 | 6.335 | 6.577 | | | | |
| **23** | 109.8 | 111.0 | 112.3 | **88** | 5.873 | 6.101 | 6.337 | | | | |
| **24** | 104.3 | 105.4 | 106.5 | **89** | 5.655 | 5.877 | 6.106 | | | | |
| **25** | **99.00** | **100.0** | **101.0** | **90** | **5.446** | **5.662** | **5.885** | | | | |