

## ERTJ1VA680J 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	<b>626.0</b>	<b>706.9</b>	<b>796.2</b>	30	<b>55.07</b>	<b>58.24</b>	<b>61.44</b>	95	<b>10.34</b>	<b>11.48</b>	<b>12.71</b>						
-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	<b>498.1</b>	<b>558.5</b>	<b>624.7</b>	35	<b>47.19</b>	<b>50.13</b>	<b>53.12</b>	100	<b>9.327</b>	<b>10.39</b>	<b>11.54</b>						
-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	<b>399.7</b>	<b>445.2</b>	<b>494.6</b>	40	<b>40.64</b>	<b>43.36</b>	<b>46.15</b>	105	<b>8.443</b>	<b>9.430</b>	<b>10.51</b>						
-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	<b>323.4</b>	<b>357.8</b>	<b>394.9</b>	45	<b>35.16</b>	<b>37.68</b>	<b>40.27</b>	110	<b>7.665</b>	<b>8.585</b>	<b>9.592</b>						
-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	<b>263.6</b>	<b>289.8</b>	<b>317.8</b>	50	<b>30.57</b>	<b>32.88</b>	<b>35.29</b>	115	<b>6.980</b>	<b>7.839</b>	<b>8.782</b>						
-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	<b>216.3</b>	<b>236.4</b>	<b>257.7</b>	55	<b>26.68</b>	<b>28.82</b>	<b>31.05</b>	120	<b>6.375</b>	<b>7.178</b>	<b>8.063</b>						
-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	<b>178.8</b>	<b>194.2</b>	<b>210.4</b>	60	<b>23.39</b>	<b>25.36</b>	<b>27.43</b>	125	<b>5.840</b>	<b>6.593</b>	<b>7.425</b>						
-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	<b>148.7</b>	<b>160.6</b>	<b>173.1</b>	65	<b>20.59</b>	<b>22.40</b>	<b>24.32</b>										
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	<b>124.5</b>	<b>133.7</b>	<b>143.3</b>	70	<b>18.19</b>	<b>19.87</b>	<b>21.65</b>										
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	<b>104.8</b>	<b>111.9</b>	<b>119.3</b>	75	<b>16.13</b>	<b>17.68</b>	<b>19.33</b>										
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	<b>88.67</b>	<b>94.25</b>	<b>99.94</b>	80	<b>14.36</b>	<b>15.79</b>	<b>17.32</b>										
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	<b>75.47</b>	<b>79.83</b>	<b>84.22</b>	85	<b>12.82</b>	<b>14.15</b>	<b>15.57</b>										
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	<b>64.60</b>	<b>68.00</b>	<b>71.40</b>	90	<b>11.49</b>	<b>12.72</b>	<b>14.05</b>										