

15-JAN-2001 10:32

FROM WELTRONICS

TO 23435799

P.04/09

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Jan.12,2001

[DATA FOR REFERENCE]

204CT-4

TEMPERATURE VS RESISTANCE CHARACTERISTICS [ITS-90]

Resistance 200k Ω at 25°CResistance Tolerance $\pm 3\%$

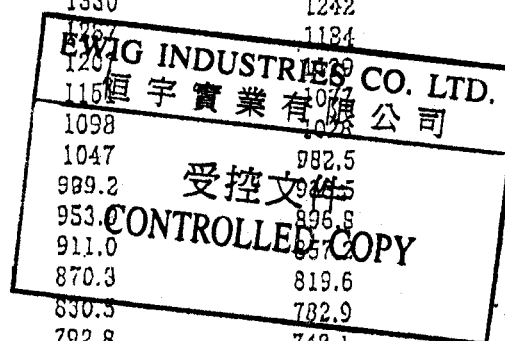
B Value 3500K at 25/85 °C

B Value Tolerance $\pm 2\%$

SEMITEC

p4/9

Temp. (°C)	Rmax. (k Ω)	Rst. (k Ω)	Rmin. (k Ω)	Tolerance (°C)	
-50	7519	6803	6149	-1.8	+1.8
-40	7091	6423	5812	-1.8	+1.8
-38	6690	6067	5496	-1.8	+1.8
-47	6315	5733	5200	-1.8	+1.8
-46	5964	5421	4922	-1.8	+1.8
-45	5638	5128	4661	-1.7	+1.8
-44	5328	4853	4416	-1.7	+1.8
-43	5040	4596	4186	-1.7	+1.8
-42	4769	4354	3970	-1.7	+1.8
-41	4515	4126	3767	-1.7	+1.8
-40	4277	3913	3576	-1.7	+1.7
-39	4044	3704	3388	-1.6	+1.7
-38	3826	3506	3212	-1.6	+1.7
-37	3621	3323	3047	-1.6	+1.7
-36	3429	3150	2891	-1.6	+1.7
-35	3248	2987	2745	-1.6	+1.7
-34	3078	2834	2607	-1.6	+1.7
-33	2919	2690	2477	-1.6	+1.6
-32	2769	2554	2354	-1.6	+1.6
-31	2627	2427	2239	-1.6	+1.6
-30	2495	2306	2130	-1.5	+1.6
-29	2366	2189	2024	-1.5	+1.6
-28	2245	2079	1924	-1.5	+1.6
-27	2130	1976	1830	-1.5	+1.6
-26	2023	1878	1741	-1.5	+1.5
-25	1922	1786	1658	-1.5	+1.5
-24	1826	1699	1578	-1.5	+1.5
-23	1736	1617	1504	-1.5	+1.5
-22	1652	1539	1433	-1.5	+1.5
-21	1571	1466	1366	-1.5	+1.5
-20	1496	1397	1303	-1.4	+1.5
-19	1423	1330	1242	-1.4	+1.5
-18	1354	1267	1184	-1.4	+1.4
-17	1289	1201	1120	-1.4	+1.4
-16	1228	1151	1072	-1.4	+1.4
-15	1170	1098	1023	-1.4	+1.4
-14	1115	1047	982.5	-1.4	+1.4
-13	1063	989.2	944.5	-1.4	+1.4
-12	1014	953.0	896.8	-1.4	+1.4
-11	967.2	911.0	857.7	-1.3	+1.4
-10	923.1	870.3	819.6	-1.3	+1.3
-9	880.1	830.3	782.9	-1.3	+1.3
-8	839.4	792.8	748.1	-1.3	+1.3
-7	800.9	757.1	715.1	-1.3	+1.3
-6	764.4	723.3	683.7	-1.3	+1.3
-5	729.8	691.2	654.0	-1.2	+1.3
-4	697.0	660.6	626.7	-1.2	+1.3
-3	666.0	631.9	598.9	-1.2	+1.3
-2	636.5	604.4	573.4	-1.2	+1.2
-1	608.5	578.4	549.2	-1.2	+1.2
0	582.0	553.6	526.1	-1.2	+1.2



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創意電子有限公司
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P5/9

TEMPERATURE VS RESISTANCE CHARACTERISTICS [ITS-90]

SAATCHI

E Value 3500K at 25/85 °C

B Value Tolerance $\pm 2\%$

Temp. (°C)	Rmax. (kΩ)	Rst. (kΩ)	Rmin. (kΩ)	Tolerance (°C)
0	582.0	559.6	526.1	-1.2 +1.2
1	556.5	529.9	504.1	-1.2 +1.2
2	532.5	507.4	483.1	-1.2 +1.2
3	509.5	486.0	463.1	-1.1 +1.2
4	487.8	465.6	444.0	-1.1 +1.2
5	467.1	446.3	425.9	-1.1 +1.2
6	447.4	427.8	408.7	-1.1 +1.1
7	428.7	410.3	392.2	-1.1 +1.1
8	410.9	393.5	376.6	-1.1 +1.1
9	393.9	377.6	361.6	-1.1 +1.1
10	377.8	362.5	347.4	-1.0 +1.1
11	362.1	347.7	333.5	-1.0 +1.1
12	347.3	333.7	320.3	-1.0 +1.0
13	333.1	320.3	307.8	-1.0 +1.0
14	319.6	307.6	295.8	-1.0 +1.0
15	306.7	295.4	284.3	-1.0 +1.0
16	294.4	283.8	273.4	-1.0 +1.0
17	282.7	272.8	262.9	-0.9 +1.0
18	271.6	262.2	252.9	-0.9 +1.0
19	260.9	252.1	243.4	-0.9 +1.0
20	250.7	242.5	234.3	-0.9 +0.9
21	241.0	233.2	225.5	-0.9 +0.9
22	231.6	224.3	217.1	-0.9 +0.9
23	222.7	215.9	209.0	-0.9 +0.9
24	214.1	207.8	201.3	-0.8 +0.9
25	206.0	200.0	194.0	-0.8 +0.8
26	198.4	192.5	186.5	-0.8 +0.9
27	191.2	185.3	179.5	-0.9 +0.9
28	184.3	178.5	172.7	-0.9 +0.9
29	177.6	171.9	166.2	-0.9 +1.0
30	171.3	165.7	160.0	-0.9 +1.0
31	165.1	159.6	154.1	-1.0 +1.0
32	159.2	153.8	148.4	-1.0 +1.0
33	153.6	148.2	142.9	-1.0 +1.0
34	148.2	142.9	137.7	-1.0 +1.1
35	143.0	137.8	132.7	-1.1 +1.1
36	138.1	132.9	127.9	-1.1 +1.1
37	133.3	128.3	123.3	-1.1 +1.2
38	128.7	123.8	118.9	-1.2 +1.2
39	124.3	119.5	114.7	-1.2 +1.2
40	120.1	115.4	110.6	-1.2 +1.2
41	116.0	111.4	106.7	-1.2 +1.3
42	112.1	107.5	103.0	-1.3 +1.3
43	108.4	103.9	99.42	-1.3 +1.3
44	104.8	100.3	95.98	-1.3 +1.4
45	101.3	96.94	92.67	-1.4 +1.4
46	97.97	93.69	89.50	-1.4 +1.4
47	94.77	90.56	86.46	-1.4 +1.5
48	91.69	87.56	83.54	-1.4 +1.5
49	88.73	84.68	80.73	-1.4 +1.5
50	85.88	81.91	78.04	-1.5 +1.5

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WILL TRONICS COMPONENT LTD
電子有限公司
TEL: 2710 0210
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Jan. 12, 2001

[DATA FOR REFERENCE]

204CT-4

TEMPERATURE VS RESISTANCE CHARACTERISTICS [ITS-90]

Resistance 200k Ω at 25°C

Resistance Tolerance $\pm 3\%$

B Value 3500K at 25/85 °C

B Value Tolerance $\pm 2\%$

SEMI

98/9

Temp. (°C)	Rmax. (k Ω)	Rst. (k Ω)	Rmin. (k Ω)	Tolerance (°C)	
50	85.88	81.91	78.04	-1.5	+1.5
51	83.11	79.21	75.42	-1.5	+1.5
52	80.45	76.62	72.90	-1.5	+1.6
53	77.88	74.13	70.49	-1.5	+1.6
54	75.41	71.73	68.16	-1.6	+1.6
55	73.04	69.43	65.93	-1.6	+1.6
56	70.75	67.21	63.76	-1.6	+1.7
57	68.55	65.08	61.72	-1.7	+1.7
58	66.43	63.02	59.73	-1.7	+1.7
59	64.39	61.05	57.82	-1.7	+1.8
60	62.42	59.14	55.98	-1.7	+1.8
61	60.50	57.29	54.19	-1.8	+1.8
62	58.65	55.60	52.47	-1.8	+1.8
63	56.87	53.78	50.81	-1.8	+1.9
64	55.15	52.12	49.21	-1.8	+1.9
65	53.49	50.52	47.67	-1.9	+1.9
66	51.89	48.98	46.19	-1.9	+2.0
67	50.35	47.50	44.76	-1.9	+2.0
68	48.87	46.07	43.39	-2.0	+2.0
69	47.43	44.69	42.06	-2.0	+2.1
70	46.05	43.36	40.79	-2.0	+2.1
71	44.70	42.07	39.55	-2.0	+2.1
72	43.40	40.82	38.35	-2.1	+2.1
73	42.15	39.61	37.20	-2.1	+2.2
74	40.93	38.45	36.08	-2.1	+2.2
75	39.76	37.33	35.01	-2.2	+2.2
76	38.63	36.25	33.98	-2.2	+2.3
77	37.54	35.20	32.98	-2.2	+2.3
78	36.49	34.19	32.01	-2.3	+2.3
79	35.47	33.22	31.08	-2.3	+2.4
80	34.48	32.28	30.18	-2.3	+2.4
81	33.52	31.36	29.30	-2.3	+2.4
82	32.58	30.47	28.46	-2.4	+2.4
83	31.68	29.61	27.64	-2.4	+2.5
84	30.81	28.77	26.84	-2.4	+2.5
85	29.97	27.97	26.08	-2.5	+2.5
86	29.15	27.10	25.34	-2.5	+2.5
87	28.36	26.44	24.62	-2.6	+2.5
88	27.59	25.71	23.93	-2.6	+2.7
89	26.85	25.01	23.27	-2.6	+2.7
90	26.14	24.33	22.62	-2.6	+2.7
91	25.44	23.66	21.99	-2.7	+2.8
92	24.76	23.02	21.38	-2.7	+2.8
93	24.11	22.40	20.79	-2.7	+2.8
94	23.47	21.80	20.22	-2.8	+2.8
95	22.86	21.22	19.67	-2.8	+2.9
96	22.26	20.65	19.14	-2.8	+2.9
97	21.68	20.11	18.62	-2.9	+2.9
98	21.12	19.58	18.12	-2.9	+3.0
99	20.58	19.07	17.64	-2.9	+3.0
100	20.06	18.57	17.17	-2.9	+3.0

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Jan. 12, 2001

[DATA FOR REFERENCE]

P7/9

204CT-4

TEMPERATURE VS RESISTANCE CHARACTERISTICS (ITS-90)

Resistance 200k Ω at 25°CResistance Tolerance $\pm 3\%$

B Value 3500K at 25/85 °C

B Value Tolerance $\pm 2\%$

SEMITEC

Temp. (°C)	Rmax. (k Ω)	Rst. (k Ω)	Rmin. (k Ω)	Tolerance (°C)	
100	20.06	18.57	17.17	-2.9	+3.0
101	19.55	18.09	16.72	-3.0	+3.1
102	19.05	17.62	16.28	-3.0	+3.1
103	18.57	17.17	15.85	-3.1	+3.1
104	18.11	16.73	15.44	-3.1	+3.2
105	17.66	16.30	15.04	-3.1	+3.2
106	17.22	15.89	14.65	-3.2	+3.3
107	16.79	15.49	14.27	-3.2	+3.3
108	16.38	15.10	13.91	-3.2	+3.3
109	15.98	14.73	13.55	-3.3	+3.4
110	15.59	14.36	13.21	-3.3	+3.4
111	15.22	14.01	12.88	-3.3	+3.4
112	14.85	13.66	12.56	-3.4	+3.5
113	14.49	13.33	12.24	-3.4	+3.5
114	14.15	13.00	11.94	-3.4	+3.5
115	13.81	12.69	11.64	-3.5	+3.6
116	13.48	12.36	11.35	-3.5	+3.6
117	13.17	12.08	11.08	-3.6	+3.7
118	12.86	11.80	10.81	-3.6	+3.7
119	12.56	11.52	10.54	-3.6	+3.7
120	12.27	11.24	10.29	-3.7	+3.8
121	11.98	10.98	10.04	-3.7	+3.8
122	11.71	10.72	9.806	-3.7	+3.8
123	11.44	10.47	9.572	-3.8	+3.9
124	11.18	10.23	9.345	-3.8	+3.9
125	10.92	9.988	9.124	-3.8	+4.0
126	10.68	9.758	8.910	-3.9	+4.0
127	10.44	9.534	8.702	-3.9	+4.0
128	10.20	9.317	8.499	-4.0	+4.1
129	9.976	9.105	8.302	-4.0	+4.1
130	9.755	8.900	8.111	-4.0	+4.1
131	9.538	8.697	7.923	-4.0	+4.2
132	9.327	8.501	7.741	-4.1	+4.2
133	9.121	8.310	7.583	-4.1	+4.2
134	8.921	8.124	7.390	-4.2	+4.3
135	8.726	7.943	7.222	-4.2	+4.3
136	8.536	7.766	7.059	-4.2	+4.4
137	8.352	7.595	6.900	-4.3	+4.4
138	8.172	7.428	6.746	-4.4	+4.5
139	7.997	7.266	6.595	-4.4	+4.5
140	7.827	7.108	6.449	-4.4	+4.6
141	7.660	6.953	6.306	-4.5	+4.6
142	7.497	6.803	6.167	-4.5	+4.7
143	7.339	6.656	6.031	-4.6	+4.7
144	7.185	6.514	5.900	-4.6	+4.8
145	7.035	6.375	5.771	-4.7	+4.8
146	6.888	6.239	5.646	-4.7	+4.9
147	6.745	6.108	5.525	-4.7	+4.9
148	6.606	5.979	5.406	-4.7	+4.9
149	6.471	5.854	5.291	-4.8	+4.9
150	6.339	5.732	5.178	-4.8	+4.9

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Jan.12,2001

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204CT-4

TEMPERATURE VS RESISTANCE CHARACTERISTICS [ITS-90]

Resistance 200k Ω at 25 $^{\circ}$ C

Resistance Tolerance $\pm 3\%$

B Value 3500K at 25/85 $^{\circ}$ C

B Value Tolerance $\pm 2\%$

SEMI-TEC

10/11
18/9

Temp. ($^{\circ}$ C)	Rmax. (k Ω)	Rat. (k Ω)	Rmin. (k Ω)	Tolerance ($^{\circ}$ C)	
150	6.339	5.732	5.178	-4.8	+4.9
151	6.210	5.613	5.068	-4.8	+5.0
152	6.084	5.497	4.962	-4.9	+5.0
153	5.961	5.384	4.867	-4.9	+5.1
154	5.841	5.273	4.755	-4.9	+5.1
155	5.724	5.166	4.657	-5.0	+5.1
156	5.610	5.061	4.560	-5.0	+5.2
157	5.499	4.958	4.466	-5.1	+5.2
158	5.391	4.859	4.375	-5.1	+5.3
159	5.285	4.761	4.285	-5.2	+5.3
160	5.182	4.666	4.198	-5.2	+5.3
161	5.080	4.573	4.113	-5.2	+5.4
162	4.981	4.482	4.029	-5.3	+5.4
163	4.884	4.393	3.946	-5.3	+5.5
164	4.790	4.307	3.868	-5.3	+5.5
165	4.698	4.222	3.791	-5.4	+5.6
166	4.608	4.140	3.715	-5.4	+5.6
167	4.520	4.059	3.642	-5.5	+5.7
168	4.434	3.981	3.570	-5.5	+5.7
169	4.350	3.904	3.500	-5.6	+5.7
170	4.269	3.829	3.431	-5.6	+5.8
171	4.189	3.756	3.364	-5.6	+5.8
172	4.110	3.684	3.299	-5.7	+5.9
173	4.034	3.614	3.235	-5.7	+5.9
174	3.969	3.546	3.173	-5.8	+6.0
175	3.886	3.479	3.112	-5.8	+6.0
176	3.815	3.414	3.052	-5.9	+6.1
177	3.745	3.350	2.994	-5.9	+6.1
178	3.677	3.288	2.937	-5.9	+6.2
179	3.610	3.227	2.882	-6.0	+6.2
180	3.545	3.168	2.828	-6.0	+6.2
181	3.481	3.110	2.775	-6.1	+6.3
182	3.419	3.053	2.723	-6.1	+6.3
183	3.358	2.997	2.673	-6.2	+6.4
184	3.298	2.943	2.623	-6.2	+6.4
185	3.240	2.890	2.575	-6.3	+6.5
186	3.182	2.838	2.527	-6.3	+6.5
187	3.127	2.787	2.481	-6.4	+6.6
188	3.072	2.737	2.436	-6.4	+6.6
189	3.018	2.689	2.392	-6.4	+6.7
190	2.966	2.641	2.349	-6.5	+6.7
191	2.915	2.594	2.308	-6.5	+6.8
192	2.864	2.548	2.265	-6.5	+6.8
193	2.815	2.504	2.224	-6.6	+6.9
194	2.767	2.460	2.185	-6.7	+6.9
195	2.719	2.417	2.146	-6.7	+7.0
196	2.673	2.375	2.108	-6.8	+7.0
197	2.628	2.334	2.071	-6.8	+7.1
198	2.583	2.294	2.034	-6.9	+7.1
199	2.540	2.254	1.999	-6.9	+7.1
200	2.498	2.216	1.964	-6.9	+7.1

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15-JAN-2001 10:34

FROM WELTRONICS

TO 23435799

P. 09/03
0010

+ 852 2425 5348

Jan. 12, 2001

[DATA FOR REFERENCE]

204CT-4

TEMPERATURE VS RESISTANCE CHARACTERISTICS (ITS-90)

Resistance 200k Ω at 25°CResistance Tolerance $\pm 3\%$

B Value 3500K at 25/85 °C

B Value Tolerance $\pm 2\%$

SUMMIT

Temp. (°C)	Rmax. (k Ω)	Rat. (k Ω)	Rmin. (k Ω)	Tolerance (°C)	
200	2.498	2.216	1.964	-6.9	+7.1
201	2.458	2.178	1.930	-6.9	+7.2
202	2.415	2.141	1.896	-7.0	+7.2
203	2.375	2.105	1.863	-7.0	+7.3
204	2.335	2.069	1.831	-7.1	+7.3
205	2.297	2.034	1.800	-7.1	+7.4
206	2.259	2.000	1.769	-7.2	+7.4
207	2.222	1.967	1.739	-7.2	+7.5
208	2.185	1.934	1.710	-7.3	+7.5
209	2.151	1.902	1.681	-7.3	+7.6
210	2.116	1.871	1.653	-7.4	+7.6
211	2.082	1.840	1.625	-7.4	+7.7
212	2.049	1.810	1.598	-7.5	+7.7
213	2.016	1.781	1.571	-7.5	+7.8
214	1.984	1.752	1.545	-7.6	+7.8
215	1.952	1.724	1.520	-7.6	+7.9
216	1.922	1.696	1.495	-7.7	+8.0
217	1.892	1.669	1.470	-7.7	+8.0
218	1.862	1.642	1.447	-7.8	+8.1
219	1.833	1.615	1.423	-7.8	+8.1
220	1.805	1.591	1.400	-7.8	+8.1
221	1.777	1.565	1.377	-7.9	+8.2
222	1.749	1.541	1.355	-7.9	+8.2
223	1.722	1.516	1.334	-8.0	+8.3
224	1.696	1.493	1.312	-8.0	+8.3
225	1.670	1.469	1.291	-8.1	+8.4
226	1.644	1.447	1.271	-8.1	+8.5
227	1.620	1.424	1.251	-8.2	+8.5
228	1.595	1.402	1.231	-8.2	+8.6
229	1.571	1.381	1.212	-8.3	+8.6
230	1.548	1.360	1.193	-8.3	+8.6
231	1.524	1.339	1.173	-8.3	+8.7
232	1.502	1.319	1.156	-8.4	+8.7
233	1.479	1.299	1.138	-8.4	+8.8
234	1.457	1.279	1.121	-8.5	+8.8
235	1.436	1.260	1.104	-8.5	+8.9
236	1.415	1.241	1.087	-8.5	+9.0
237	1.394	1.222	1.070	-8.5	+9.0
238	1.374	1.204	1.054	-8.6	+9.1
239	1.354	1.186	1.038	-8.6	+9.1
240	1.334	1.169	1.022	-8.6	+9.2
241	1.313	1.151	1.007	-8.6	+9.2
242	1.296	1.135	0.9923	-8.6	+9.3
243	1.277	1.119	0.9775	-8.6	+9.3
244	1.259	1.102	0.9630	-8.6	+9.4
245	1.241	1.086	0.9488	-8.6	+9.4
246	1.224	1.070	0.9348	-8.6	+9.5
247	1.206	1.055	0.9211	-8.6	+9.5
248	1.189	1.040	0.9076	-8.6	+9.6
249	1.173	1.025	0.8944	-8.6	+9.7
250	1.158	1.010	0.8814	-8.6	+9.8

EWIG INDUSTRIES CO. LTD.
恒宇實業有限公司受控文件
CONTROLLED COPYWELTRONICS COMPONENT LTD.
恒宇實業有限公司
100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000, 1050, 1100, 1150, 1200, 1250, 1300, 1350, 1400, 1450, 1500, 1550, 1600, 1650, 1700, 1750, 1800, 1850, 1900, 1950, 2000, 2050, 2100, 2150, 2200, 2250, 2300, 2350, 2400, 2450, 2500, 2550, 2600, 2650, 2700, 2750, 2800, 2850, 2900, 2950, 3000, 3050, 3100, 3150, 3200, 3250, 3300, 3350, 3400, 3450, 3500, 3550, 3600, 3650, 3700, 3750, 3800, 3850, 3900, 3950, 4000, 4050, 4100, 4150, 4200, 4250, 4300, 4350, 4400, 4450, 4500, 4550, 4600, 4650, 4700, 4750, 4800, 4850, 4900, 4950, 5000, 5050, 5100, 5150, 5200, 5250, 5300, 5350, 5400, 5450, 5500, 5550, 5600, 5650, 5700, 5750, 5800, 5850, 5900, 5950, 6000, 6050, 6100, 6150, 6200, 6250, 6300, 6350, 6400, 6450, 6500, 6550, 6600, 6650, 6700, 6750, 6800, 6850, 6900, 6950, 7000, 7050, 7100, 7150, 7200, 7250, 7300, 7350, 7400, 7450, 7500, 7550, 7600, 7650, 7700, 7750, 7800, 7850, 7900, 7950, 8000, 8050, 8100, 8150, 8200, 8250, 8300, 8350, 8400, 8450, 8500, 8550, 8600, 8650, 8700, 8750, 8800, 8850, 8900, 8950, 9000, 9050, 9100, 9150, 9200, 9250, 9300, 9350, 9400, 9450, 9500, 9550, 9600, 9650, 9700, 9750, 9800, 9850, 9900, 9950, 10000, 10050, 10100, 10150, 10200, 10250, 10300, 10350, 10400, 10450, 10500, 10550, 10600, 10650, 10700, 10750, 10800, 10850, 10900, 10950, 11000, 11050, 11100, 11150, 11200, 11250, 11300, 11350, 11400, 11450, 11500, 11550, 11600, 11650, 11700, 11750, 11800, 11850, 11900, 11950, 12000, 12050, 12100, 12150, 12200, 12250, 12300, 12350, 12400, 12450, 12500, 12550, 12600, 12650, 12700, 12750, 12800, 12850, 12900, 12950, 13000, 13050, 13100, 13150, 13200, 13250, 13300, 13350, 13400, 13450, 13500, 13550, 13600, 13650, 13700, 13750, 13800, 13850, 13900, 13950, 14000, 14050, 14100, 14150, 14200, 14250, 14300, 14350, 14400, 14450, 14500, 14550, 14600, 14650, 14700, 14750, 14800, 14850, 14900, 14950, 15000, 15050, 15100, 15150, 15200, 15250, 15300, 15350, 15400, 15450, 15500, 15550, 15600, 15650, 15700, 15750, 15800, 15850, 15900, 15950, 16000, 16050, 16100, 16150, 16200, 16250, 16300, 16350, 16400, 16450, 16500, 16550, 16600, 16650, 16700, 16750, 16800, 16850, 16900, 16950, 17000, 17050, 17100, 17150, 17200, 17250, 17300, 17350, 17400, 17450, 17500, 17550, 17600, 17650, 17700, 17750, 17800, 17850, 17900, 17950, 18000, 18050, 18100, 18150, 18200, 18250, 18300, 18350, 18400, 18450, 18500, 18550, 18600, 18650, 18700, 18750, 18800, 18850, 18900, 18950, 19000, 19050, 19100, 19150, 19200, 19250, 19300, 19350, 19400, 19450, 19500, 19550, 19600, 19650, 19700, 19750, 19800, 19850, 19900, 19950, 20000, 20050, 20100, 20150, 20200, 20250, 20300, 20350, 20400, 20450, 20500, 20550, 20600, 20650, 20700, 20750, 20800, 20850, 20900, 20950, 21000, 21050, 21100, 21150, 21200, 21250, 21300, 21350, 21400, 21450, 21500, 21550, 21600, 21650, 21700, 21750, 21800, 21850, 21900, 21950, 22000, 22050, 22100, 22150, 22200, 22250, 22300, 22350, 22400, 22450, 22500, 22550, 22600, 22650, 22700, 22750, 22800, 22850, 22900, 22950, 23000, 23050, 23100, 23150, 23200, 23250, 23300, 23350, 23400, 23450, 23500, 23550, 23600, 23650, 23700, 23750, 23800, 23850, 23900, 23950, 24000, 24050, 24100, 24150, 24200, 24250, 24300, 24350, 24400, 24450, 24500, 24550, 24600, 24650, 24700, 24750, 24800, 24850, 24900, 24950, 25000, 25050, 25100, 25150, 25200, 25250, 25300, 25350, 25400, 25450, 25500, 25550, 25600, 25650, 25700, 25750, 25800, 25850, 25900, 25950, 26000, 26050, 26100, 26150, 26200, 26250, 26300, 26350, 26400, 26450, 26500, 26550, 26600, 26650, 26700, 26750, 26800, 26850, 26900, 26950, 27000, 27050, 27100, 27150, 27200, 27250, 27300, 27350, 27400, 27450, 27500, 27550, 27600, 27650, 27700, 27750, 27800, 27850, 27900, 27950, 28000, 28050, 28100, 28150, 28200, 28250, 28300, 28350, 28400, 28450, 28500, 28550, 28600, 28650, 28700, 28750, 28800, 28850, 28900, 28950, 29000, 29050, 29100, 29150, 29200, 29250, 29300, 29350, 29400, 29450, 29500, 29550, 29600, 29650, 29700, 29750, 29800, 29850, 29900, 29950, 30000, 30050, 30100, 30150, 30200, 30250, 30300, 30350, 30400, 30450, 30500, 30550, 30600, 30650, 30700, 30750, 30800, 30850, 30900, 30950, 31000, 31050, 31100, 31150, 31200, 31250, 31300, 31350, 31400, 31450, 31500, 31550, 31600, 31650, 31700, 31750, 31800, 31850, 31900, 31950, 32000, 32050, 32100, 32150, 32200, 32250, 32300, 32350, 32400, 32450, 32500, 32550, 32600, 32650, 32700, 32750, 32800, 32850, 32900, 32950, 33000, 33050, 33100, 33150, 33200, 33250, 33300, 33350, 33400, 33450, 33500, 33550, 33600, 33650, 33700, 33750, 33800, 33850, 33900, 33950, 34000, 34050, 34100, 34150, 34200, 34250, 34300, 34350, 34400, 34450, 34500, 34550, 34600, 34650, 34700, 34750, 34800, 34850, 34900, 34950, 35000, 35050, 35100, 35150, 35200, 35250, 35300, 35350, 35400, 35450, 35500, 35550, 35600, 35650, 35700, 35750, 35800, 35850, 35900, 35950, 36000, 36050, 36100, 36150, 36200, 36250, 36300, 36350, 36400, 36450, 36500, 36550, 36600, 36650, 36700, 36750, 36800, 36850, 36900, 36950, 37000, 37050, 37100, 37150, 37200, 37250, 37300, 37350, 37400, 37450, 37500, 37550, 37600, 37650, 37700, 37750, 37800, 37850, 37900, 37950, 38000, 38050, 38100, 38150, 38200, 38250, 38300, 38350, 38400, 38450, 38500, 38550, 38600, 38650, 38700, 38750, 38800, 38850, 38900, 38950, 39000, 39050, 39100, 39150, 39200, 39250, 39300, 39350, 39400, 39450, 39500, 39550, 39600, 39650, 39700, 39750, 39800, 39850, 39900, 39950, 40000, 40050, 40100, 40150, 40200, 40250, 40300, 40350, 40400, 40450, 40500, 40550, 40600, 40650, 40700, 40750, 40800, 40850, 40900, 40950, 41000, 41050, 41100, 41150, 41200, 41250, 41300, 41350, 41400, 41450, 41500, 41550, 41600, 41650, 41700, 41750, 41800, 41850, 41900, 41950, 42000, 42050, 42100, 42150, 42200, 42250, 42300, 42350, 42400, 42450, 42500, 42550, 42600, 42650, 42700, 42750, 42800, 42850, 42900, 42950, 43000, 43050, 43100, 43150, 43200, 43250, 43300, 43350, 43400, 43450, 43500, 43550, 43600, 43650, 43700, 43750, 43800, 43850, 43900, 43950, 44000, 44050, 44100, 44150, 44200, 44250, 44300, 44350, 44400, 44450, 44500, 44550, 44600, 44650, 44700, 44750, 44800, 44850, 44900, 44950, 45000, 45050, 45100, 45150, 45200, 45250, 45300, 45350, 45400, 45450, 45500, 45550, 45600, 45650, 45700, 45750, 45800, 45850, 45900, 45950, 46000, 46050, 46100, 46150, 46200, 46250, 46300, 46350, 46400, 46450, 46500, 46550, 46600, 46650, 46700, 46750, 46800, 46850, 46900, 46950, 47000, 47050, 47100, 47150, 47200, 47250, 47300, 47350, 47400, 47450, 47500, 47550, 47600, 47650, 47700, 47750, 47800, 47850, 47900, 47950, 48000, 48050, 48100, 48150, 48200, 48250, 48300, 48350, 48400, 48450, 48500, 48550, 48600, 48650, 48700, 48750, 48800, 48850, 48900, 48950, 49000, 49050, 49100, 49150, 49200, 49250, 49300, 49350, 49400, 49450, 49500, 49550, 49600, 49650, 49700, 49750, 49800, 49850, 49900, 49950, 50000, 50050, 50100, 50150, 50200, 50250, 50300, 50350, 50400, 50450, 50500, 50550, 50600, 50650, 50700, 50750, 50800, 50850, 50900, 50950, 51000, 51050, 51100, 51150, 51200, 51250, 51300, 51350, 51400, 51450, 51500, 51550, 51600, 51650, 51700, 51750, 51800, 51850, 51900, 51950, 52000, 52050, 52100, 52150, 52200, 52250, 52300, 52350, 52400, 52450, 52500, 52550, 52600, 52650, 52700, 52750, 52800, 52850, 52900, 52950, 53000, 53050, 53100, 53150, 53200, 53250, 53300, 53350, 53400, 53450, 53500, 53550, 53600, 53650, 53700, 53750, 53800, 53850, 53900, 53950, 54000, 54050, 54100, 54150, 54200, 54250, 54300, 54350, 54400, 54450, 54500, 54550, 54600, 54650, 54700, 54750, 54800, 54850, 54900, 54950, 55000, 55050, 55100, 55150, 55200, 55250, 55300, 55350, 55400, 55450, 55500, 55550, 55600, 55650, 55700, 55750, 55800, 55850, 55900, 55950, 56000, 56050, 56100, 56150, 56200, 56250, 56300, 56350, 56400, 56450, 56500, 56550, 56600, 56650, 56700, 56750, 56800, 56850, 56900, 56950, 57000, 57050, 57100, 57150, 57200, 57250, 57300, 57350, 57400, 57450, 57500, 57550, 57600, 57650, 57700, 57750, 57800, 57850, 57900, 57950, 58000, 58050, 58100, 58150, 58200, 58250, 58300, 58350, 58400, 58450, 58500, 58550, 58600, 58650, 58700, 58750, 58800, 58850, 58900, 58950, 59000, 59050, 59100, 59150, 59200, 59250, 59300, 59350, 59400, 59450, 59500, 59550, 59600, 59650, 59700, 59750, 59800, 59850, 59900, 59950, 60000, 60050, 60100, 60150, 60200, 60250, 60300, 60350, 60400, 60450, 60500, 60550, 60600, 60650, 60700, 60750, 60800, 60850, 60900, 60950, 61000, 61050, 61100, 61150, 61200, 61250, 61300, 61350, 61400, 61450, 61500, 61550, 61600, 61650, 61700, 61750, 61800, 61850, 61900, 61950, 62000, 62050, 62100, 62150, 62200, 62250, 62300, 62350, 62400, 62450, 62500, 62550, 62600, 62650,