

Solid State USB RF SPDT Switch

USB-1SP2T-183

Typical Performance Data

TEST CONDITIONS: @Temperature = 0°C, Pin = 8dBm

Frequency (MHz)	Insertion Loss (dB)		VSWR, Active Ports (:1)			VSWR, Internally Terminated Ports (:1)	
	COM-1	COM-2	J1	J2	COM	J1	J2
50	0.73	0.73	1.15	1.15	1.15	1.11	1.11
250	0.83	0.83	1.09	1.09	1.10	1.09	1.09
500	0.91	0.92	1.09	1.09	1.10	1.10	1.10
750	0.99	0.99	1.08	1.08	1.10	1.12	1.12
1000	1.06	1.07	1.07	1.07	1.09	1.12	1.12
1250	1.09	1.10	1.07	1.07	1.06	1.13	1.13
1500	1.12	1.13	1.08	1.09	1.05	1.13	1.13
1750	1.17	1.18	1.10	1.12	1.06	1.13	1.13
2000	1.20	1.22	1.12	1.14	1.06	1.11	1.11
2250	1.23	1.24	1.15	1.17	1.08	1.10	1.10
2500	1.26	1.28	1.15	1.17	1.08	1.09	1.08
2750	1.29	1.31	1.17	1.19	1.09	1.08	1.07
3000	1.32	1.34	1.17	1.18	1.08	1.07	1.05
3500	1.37	1.38	1.18	1.19	1.08	1.04	1.02
4000	1.41	1.42	1.20	1.19	1.09	1.02	1.01
4500	1.45	1.46	1.18	1.16	1.08	1.03	1.04
5000	1.49	1.50	1.12	1.11	1.11	1.07	1.08
5500	1.54	1.56	1.10	1.13	1.20	1.11	1.11
6000	1.62	1.64	1.16	1.20	1.27	1.13	1.13
6500	1.67	1.69	1.19	1.22	1.28	1.13	1.13
7000	1.71	1.72	1.17	1.18	1.21	1.10	1.10
7500	1.74	1.75	1.12	1.11	1.15	1.07	1.06
8000	1.77	1.78	1.07	1.05	1.13	1.04	1.02
8500	1.81	1.82	1.05	1.01	1.15	1.05	1.03
9000	1.85	1.86	1.05	1.05	1.17	1.06	1.05
9500	1.90	1.91	1.06	1.07	1.20	1.07	1.06
10000	1.94	1.95	1.08	1.08	1.20	1.09	1.08
10500	1.97	1.98	1.07	1.08	1.18	1.12	1.10
11000	2.00	2.02	1.02	1.04	1.14	1.14	1.12
11500	2.04	2.05	1.05	1.05	1.12	1.15	1.12
12000	2.08	2.10	1.12	1.10	1.12	1.13	1.11
12500	2.13	2.14	1.16	1.15	1.13	1.11	1.10
13000	2.17	2.19	1.17	1.16	1.14	1.09	1.09
13500	2.23	2.25	1.18	1.19	1.20	1.10	1.11
14000	2.29	2.33	1.22	1.25	1.26	1.13	1.13
14500	2.36	2.40	1.26	1.30	1.30	1.13	1.13
15000	2.40	2.44	1.29	1.31	1.29	1.13	1.12
15500	2.44	2.47	1.29	1.29	1.24	1.13	1.12
16000	2.46	2.48	1.25	1.23	1.16	1.13	1.12
16500	2.47	2.49	1.20	1.19	1.04	1.13	1.14
17000	2.50	2.54	1.19	1.21	1.10	1.15	1.18
17250	2.52	2.56	1.19	1.22	1.15	1.16	1.19
17500	2.54	2.59	1.20	1.23	1.19	1.17	1.20
17750	2.56	2.60	1.20	1.22	1.20	1.17	1.20
18000	2.57	2.61	1.17	1.19	1.20	1.17	1.18
18250	2.59	2.62	1.15	1.16	1.20	1.16	1.16
18500	2.60	2.64	1.13	1.14	1.19	1.14	1.13
18750	2.62	2.66	1.11	1.12	1.18	1.11	1.10
19000	2.65	2.69	1.11	1.13	1.20	1.09	1.07
19250	2.69	2.74	1.16	1.19	1.24	1.06	1.06
19500	2.73	2.79	1.22	1.28	1.30	1.09	1.11
19750	2.79	2.87	1.29	1.37	1.39	1.13	1.17
20000	2.85	2.94	1.36	1.45	1.48	1.19	1.24

Notes

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Typical Performance Data

TEST CONDITIONS: @Temperature = 0°C, Pin = 8dBm

Frequency (MHz)	Isolation @ Active states (dB)			Isolation @ Disconnected state (dB)		
	COM-1	COM-2	J1-J2	COM-1	COM-2	J1-J2
50	91.44	91.14	90.05	88.05	87.29	101.70
250	83.11	82.17	84.93	79.63	81.35	103.61
500	76.25	78.39	83.67	75.00	74.38	90.10
750	73.90	73.81	79.86	71.38	70.85	90.61
1000	71.50	71.26	75.41	68.34	68.38	85.05
1250	69.39	69.42	74.44	66.74	66.44	84.59
1500	68.41	67.87	72.88	65.34	65.13	84.96
1750	67.17	67.20	71.51	64.13	64.08	81.39
2000	66.15	66.15	70.61	63.52	63.28	80.07
2250	65.75	65.47	70.25	62.87	62.90	79.81
2500	65.03	64.90	69.50	62.44	62.27	77.84
2750	64.54	64.61	68.77	62.31	62.12	78.36
3000	64.47	64.08	68.34	61.85	61.65	77.33
3500	63.71	63.86	68.12	61.63	61.50	74.47
4000	63.68	63.70	67.94	61.71	61.57	74.04
4500	63.26	63.38	68.27	62.01	61.73	73.47
5000	63.00	63.24	67.85	62.44	62.12	73.54
5500	62.49	62.35	67.72	62.94	62.60	73.52
6000	62.28	62.20	67.06	63.10	62.89	74.32
6500	62.23	62.31	66.62	63.46	62.95	74.45
7000	62.61	62.40	66.69	64.15	63.27	75.13
7500	62.92	62.68	66.58	64.43	63.79	77.15
8000	63.37	63.26	67.34	64.79	64.09	78.82
8500	64.06	64.00	68.55	65.15	64.63	81.89
9000	64.50	64.89	69.18	65.20	65.11	87.03
9500	64.43	65.78	70.00	65.14	65.58	99.06
10000	64.34	66.17	71.20	64.89	65.86	94.92
10500	64.26	66.03	71.18	64.95	66.17	102.56
11000	64.54	66.41	71.26	64.73	66.74	90.60
11500	64.90	67.12	72.67	64.75	67.88	88.12
12000	65.60	67.90	73.05	65.13	68.44	90.25
12500	66.30	68.51	71.52	65.58	71.02	85.09
13000	67.82	70.31	71.57	67.00	73.90	87.70
13500	69.23	71.03	71.48	68.50	78.80	82.48
14000	70.69	71.86	70.66	71.36	82.51	81.91
14500	71.49	70.19	69.89	74.47	74.13	81.03
15000	70.06	68.98	69.41	79.53	69.69	80.57
15500	68.36	67.32	68.73	74.04	66.41	79.83
16000	66.26	65.55	68.55	69.52	64.10	77.00
16500	64.75	63.80	67.79	66.01	62.14	76.53
17000	63.20	62.12	67.43	63.69	60.61	75.75
17250	62.33	61.37	66.78	62.76	59.96	75.43
17500	61.88	60.72	66.40	61.69	59.27	75.52
17750	61.00	60.30	66.53	61.01	58.75	75.32
18000	60.48	59.75	66.55	60.10	58.07	74.88
18250	60.08	59.48	66.25	59.53	57.55	73.86
18500	59.72	59.08	66.47	58.81	57.09	73.96
18750	59.18	58.56	66.36	58.27	56.63	73.48
19000	58.86	58.11	66.33	57.66	56.30	71.85
19250	58.27	57.67	66.40	57.31	55.83	72.13
19500	57.97	57.26	67.12	56.94	55.45	71.70
19750	57.58	56.98	67.29	56.51	55.35	71.06
20000	57.30	56.75	68.07	56.13	55.00	70.09

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Typical Performance Data

TEST CONDITIONS: @Temperature = +25°C, Pin = 8dBm

Frequency (MHz)	Insertion Loss (dB)		VSWR, Active Ports (:1)			VSWR, Internally Terminated Ports (:1)	
	COM-1	COM-2	J1	J2	COM	J1	J2
50	0.76	0.77	1.15	1.15	1.15	1.10	1.10
250	0.87	0.88	1.10	1.10	1.11	1.08	1.08
500	0.97	0.97	1.10	1.10	1.11	1.09	1.09
750	1.05	1.05	1.09	1.09	1.10	1.11	1.11
1000	1.12	1.13	1.08	1.08	1.09	1.12	1.12
1250	1.15	1.16	1.07	1.08	1.07	1.13	1.13
1500	1.19	1.21	1.08	1.09	1.06	1.13	1.13
1750	1.24	1.26	1.11	1.12	1.06	1.13	1.12
2000	1.27	1.29	1.13	1.15	1.07	1.11	1.11
2250	1.31	1.33	1.15	1.17	1.07	1.10	1.10
2500	1.34	1.36	1.16	1.19	1.08	1.09	1.08
2750	1.37	1.40	1.17	1.20	1.08	1.07	1.06
3000	1.40	1.43	1.18	1.20	1.08	1.06	1.05
3500	1.45	1.48	1.19	1.20	1.08	1.04	1.02
4000	1.50	1.52	1.20	1.20	1.08	1.01	1.01
4500	1.54	1.56	1.17	1.16	1.07	1.03	1.04
5000	1.59	1.61	1.12	1.11	1.11	1.07	1.08
5500	1.65	1.68	1.10	1.13	1.21	1.11	1.12
6000	1.73	1.77	1.17	1.20	1.29	1.13	1.13
6500	1.79	1.83	1.20	1.23	1.29	1.13	1.13
7000	1.83	1.87	1.17	1.19	1.22	1.10	1.11
7500	1.87	1.89	1.11	1.12	1.15	1.06	1.07
8000	1.90	1.93	1.06	1.05	1.13	1.03	1.03
8500	1.94	1.97	1.03	1.02	1.15	1.03	1.03
9000	1.99	2.02	1.04	1.05	1.18	1.05	1.05
9500	2.04	2.07	1.06	1.07	1.20	1.06	1.06
10000	2.09	2.12	1.08	1.08	1.21	1.08	1.08
10500	2.12	2.16	1.07	1.07	1.18	1.12	1.10
11000	2.16	2.20	1.01	1.03	1.14	1.15	1.12
11500	2.20	2.24	1.07	1.07	1.12	1.15	1.12
12000	2.26	2.29	1.14	1.13	1.13	1.13	1.10
12500	2.31	2.34	1.18	1.16	1.13	1.10	1.08
13000	2.35	2.39	1.17	1.16	1.13	1.07	1.07
13500	2.42	2.46	1.18	1.18	1.18	1.08	1.09
14000	2.49	2.55	1.21	1.24	1.25	1.11	1.12
14500	2.56	2.63	1.25	1.28	1.28	1.12	1.12
15000	2.62	2.68	1.28	1.30	1.27	1.12	1.12
15500	2.66	2.71	1.29	1.29	1.23	1.14	1.13
16000	2.69	2.73	1.26	1.25	1.14	1.15	1.15
16500	2.72	2.77	1.22	1.22	1.03	1.16	1.17
17000	2.77	2.83	1.22	1.24	1.11	1.18	1.21
17250	2.79	2.86	1.22	1.25	1.16	1.18	1.21
17500	2.82	2.89	1.23	1.26	1.19	1.19	1.22
17750	2.84	2.91	1.22	1.25	1.21	1.19	1.21
18000	2.86	2.93	1.20	1.21	1.21	1.18	1.20
18250	2.88	2.94	1.16	1.18	1.20	1.16	1.17
18500	2.90	2.96	1.13	1.14	1.18	1.14	1.13
18750	2.93	3.00	1.11	1.12	1.18	1.10	1.09
19000	2.97	3.04	1.12	1.14	1.19	1.07	1.05
19250	3.03	3.11	1.18	1.21	1.24	1.06	1.06
19500	3.09	3.18	1.25	1.30	1.30	1.09	1.11
19750	3.16	3.27	1.31	1.38	1.38	1.14	1.17
20000	3.21	3.35	1.36	1.45	1.46	1.19	1.23

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Solid State USB RF SPDT Switch

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Typical Performance Data

TEST CONDITIONS: @Temperature = +25°C, Pin = 8dBm

Frequency (MHz)	Isolation @ Active states (dB)			Isolation @ Disconnected state (dB)		
	COM-1	COM-2	J1-J2	COM-1	COM-2	J1-J2
50	91.77	87.33	88.77	84.33	85.74	106.29
250	84.03	83.50	86.54	79.42	80.17	95.30
500	77.02	78.72	82.49	74.64	75.38	92.91
750	73.64	74.00	79.61	70.56	70.87	87.86
1000	71.06	71.21	75.24	67.96	68.17	84.28
1250	69.20	68.97	73.64	66.08	65.84	86.28
1500	67.58	67.23	72.22	64.63	64.31	82.30
1750	66.62	66.65	71.00	63.62	63.34	81.79
2000	65.89	65.86	69.85	62.73	62.93	80.84
2250	65.18	65.22	69.66	62.25	62.03	80.40
2500	64.87	64.74	68.74	61.65	61.60	80.10
2750	64.41	64.38	68.39	61.30	61.25	78.01
3000	63.75	63.69	67.70	61.17	60.84	76.83
3500	63.53	63.27	67.57	60.87	60.75	75.98
4000	63.21	63.22	67.65	60.97	60.69	74.01
4500	62.88	62.90	67.87	61.34	61.02	73.61
5000	62.48	62.53	67.72	61.57	61.18	73.73
5500	62.27	61.93	67.20	61.85	61.45	74.72
6000	61.82	61.97	66.46	62.41	61.61	74.86
6500	62.14	61.89	66.19	62.51	61.92	75.71
7000	62.28	62.22	66.56	63.03	62.28	76.46
7500	62.59	62.38	67.00	63.44	62.65	78.53
8000	62.83	62.94	67.33	63.94	63.12	82.86
8500	63.58	63.49	68.56	64.43	63.44	84.26
9000	63.87	64.30	69.18	64.51	64.10	87.22
9500	63.84	65.08	70.02	64.67	64.64	88.02
10000	63.84	65.42	70.82	64.70	65.01	89.43
10500	63.90	65.34	71.50	64.71	65.53	88.67
11000	64.26	66.02	72.35	64.68	66.05	86.63
11500	64.62	66.72	71.33	65.05	66.70	84.59
12000	65.45	67.43	72.17	65.34	67.84	85.26
12500	66.52	68.88	71.59	66.16	69.61	86.84
13000	68.04	70.15	70.54	67.20	72.23	83.39
13500	69.53	71.91	70.90	69.13	76.33	83.85
14000	71.56	73.00	70.53	72.12	85.15	82.28
14500	72.39	72.26	69.28	77.89	77.91	83.23
15000	71.25	70.12	68.91	101.84	71.65	80.71
15500	69.09	68.88	68.36	76.83	67.71	78.71
16000	68.06	66.89	68.35	70.50	65.17	78.25
16500	66.38	65.09	67.54	67.14	63.07	77.43
17000	64.47	63.32	67.27	64.45	61.42	77.43
17250	63.54	62.54	67.00	63.48	60.79	77.79
17500	62.99	61.91	66.93	62.20	59.86	76.75
17750	62.16	61.36	66.65	61.57	59.43	76.66
18000	61.66	60.86	66.48	60.88	58.88	75.76
18250	61.12	60.24	66.71	60.21	58.43	75.36
18500	60.67	59.91	66.69	59.54	57.78	75.07
18750	60.21	59.48	66.57	59.05	57.36	74.74
19000	59.68	58.99	67.13	58.47	56.94	73.73
19250	59.35	58.59	66.97	57.98	56.59	73.26
19500	58.91	58.13	67.68	57.70	56.29	72.49
19750	58.49	57.87	67.96	57.26	55.92	71.84
20000	58.18	57.48	68.57	56.83	55.82	71.12

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Typical Performance Data

TEST CONDITIONS: @Temperature = +50°C, Pin = 8dBm

Frequency (MHz)	Insertion Loss (dB)		VSWR, Active Ports (:1)			VSWR, Internally Terminated Ports (:1)	
	COM-1	COM-2	J1	J2	COM	J1	J2
50	0.80	0.80	1.16	1.16	1.16	1.10	1.10
250	0.91	0.91	1.11	1.11	1.11	1.08	1.08
500	1.00	1.01	1.10	1.11	1.11	1.09	1.09
750	1.08	1.09	1.09	1.09	1.11	1.11	1.11
1000	1.16	1.17	1.08	1.08	1.10	1.12	1.12
1250	1.19	1.20	1.08	1.08	1.08	1.12	1.13
1500	1.24	1.25	1.09	1.09	1.06	1.12	1.12
1750	1.28	1.30	1.11	1.13	1.06	1.12	1.12
2000	1.32	1.34	1.13	1.15	1.06	1.11	1.11
2250	1.35	1.37	1.16	1.18	1.07	1.10	1.10
2500	1.39	1.41	1.17	1.19	1.08	1.09	1.08
2750	1.42	1.44	1.19	1.21	1.08	1.07	1.07
3000	1.45	1.47	1.19	1.21	1.08	1.06	1.05
3500	1.50	1.52	1.20	1.21	1.08	1.04	1.02
4000	1.55	1.57	1.21	1.20	1.07	1.01	1.01
4500	1.59	1.61	1.18	1.17	1.07	1.03	1.05
5000	1.64	1.66	1.12	1.11	1.12	1.07	1.08
5500	1.71	1.74	1.11	1.13	1.22	1.11	1.12
6000	1.79	1.82	1.17	1.21	1.29	1.13	1.13
6500	1.85	1.89	1.20	1.23	1.29	1.12	1.13
7000	1.89	1.92	1.17	1.19	1.22	1.10	1.11
7500	1.93	1.95	1.11	1.12	1.15	1.06	1.07
8000	1.96	1.99	1.05	1.05	1.14	1.02	1.03
8500	2.01	2.03	1.03	1.02	1.16	1.03	1.04
9000	2.05	2.08	1.04	1.05	1.19	1.05	1.05
9500	2.11	2.13	1.05	1.07	1.21	1.06	1.06
10000	2.15	2.18	1.07	1.07	1.21	1.08	1.08
10500	2.19	2.21	1.06	1.05	1.18	1.12	1.10
11000	2.23	2.26	1.00	1.03	1.14	1.14	1.11
11500	2.27	2.30	1.08	1.08	1.12	1.14	1.11
12000	2.32	2.35	1.14	1.13	1.12	1.12	1.09
12500	2.37	2.39	1.17	1.15	1.12	1.09	1.07
13000	2.42	2.45	1.17	1.15	1.12	1.07	1.07
13500	2.48	2.52	1.18	1.18	1.18	1.08	1.10
14000	2.56	2.61	1.22	1.24	1.25	1.11	1.12
14500	2.63	2.69	1.25	1.29	1.28	1.11	1.12
15000	2.68	2.74	1.28	1.31	1.27	1.13	1.13
15500	2.73	2.77	1.30	1.30	1.22	1.14	1.14
16000	2.76	2.80	1.27	1.26	1.12	1.16	1.16
16500	2.78	2.83	1.23	1.23	1.03	1.16	1.18
17000	2.82	2.88	1.21	1.24	1.12	1.17	1.20
17250	2.84	2.91	1.21	1.24	1.16	1.17	1.21
17500	2.87	2.93	1.21	1.24	1.20	1.18	1.21
17750	2.88	2.95	1.20	1.23	1.22	1.18	1.20
18000	2.90	2.96	1.18	1.19	1.22	1.16	1.18
18250	2.92	2.98	1.15	1.16	1.21	1.15	1.16
18500	2.93	3.00	1.12	1.13	1.20	1.13	1.13
18750	2.96	3.03	1.10	1.11	1.20	1.09	1.08
19000	3.00	3.07	1.12	1.14	1.22	1.07	1.05
19250	3.04	3.12	1.17	1.20	1.26	1.06	1.06
19500	3.09	3.19	1.23	1.28	1.33	1.09	1.11
19750	3.15	3.26	1.29	1.36	1.40	1.13	1.16
20000	3.21	3.32	1.34	1.42	1.48	1.18	1.22

Notes

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- B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuits' applicable established test performance criteria and measurement instructions.
- C. The parts covered by this specification document are subject to Mini-Circuits' standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp



Solid State USB RF SPDT Switch

USB-1SP2T-183

Typical Performance Data

TEST CONDITIONS: @Temperature = +50°C, Pin = 8dBm

Frequency (MHz)	Isolation @ Active states (dB)			Isolation @ Disconnected state (dB)		
	COM-1	COM-2	J1-J2	COM-1	COM-2	J1-J2
50	91.16	87.79	88.79	83.65	84.54	95.46
250	81.73	83.34	86.01	78.89	79.63	97.32
500	76.45	76.29	82.49	74.54	74.08	89.98
750	73.53	73.26	78.24	70.44	70.23	87.06
1000	70.76	70.62	76.16	67.42	67.42	88.96
1250	68.53	68.76	73.23	65.57	65.58	84.17
1500	67.16	67.32	71.89	64.26	64.18	83.52
1750	66.31	66.34	70.68	62.99	62.88	80.62
2000	65.34	65.61	69.59	62.30	62.00	82.26
2250	64.94	64.78	69.08	61.51	61.57	79.57
2500	64.14	64.28	68.08	61.14	61.01	78.87
2750	63.83	63.93	68.44	60.71	60.55	78.21
3000	63.27	63.49	68.36	60.36	60.29	75.96
3500	62.93	62.97	67.59	60.26	59.90	75.51
4000	62.49	62.75	67.33	60.04	59.95	74.93
4500	62.38	62.26	67.48	60.31	60.08	74.36
5000	61.81	62.18	67.17	60.44	60.36	73.82
5500	61.74	61.69	66.68	60.75	60.44	74.94
6000	61.70	61.43	66.35	61.08	60.68	75.72
6500	61.71	61.60	65.82	61.38	60.93	76.56
7000	61.91	62.01	66.04	61.75	61.20	77.91
7500	62.01	61.99	66.71	62.34	61.53	79.77
8000	62.19	62.53	67.42	62.71	62.17	81.63
8500	62.91	63.01	68.42	63.14	62.50	82.86
9000	63.06	63.71	69.62	63.40	63.05	85.80
9500	63.38	64.32	69.70	63.83	63.55	86.62
10000	63.40	64.68	70.07	64.03	63.91	87.76
10500	63.49	64.74	70.55	63.98	64.30	86.33
11000	64.09	65.39	70.64	64.27	64.89	82.74
11500	64.49	65.99	71.35	64.52	65.50	83.78
12000	64.96	67.35	70.66	64.79	66.51	85.33
12500	66.58	68.48	70.59	65.59	67.93	83.31
13000	67.76	69.97	70.04	66.84	69.25	84.79
13500	69.80	71.43	69.94	68.30	72.30	81.00
14000	71.71	73.43	68.94	70.59	74.67	81.73
14500	73.21	73.31	68.95	74.36	76.40	83.94
15000	73.36	72.12	68.25	77.00	71.37	80.95
15500	72.03	70.22	68.29	75.41	68.64	79.77
16000	70.52	68.60	67.80	70.22	65.77	80.16
16500	68.28	66.58	67.48	67.44	64.02	79.15
17000	66.19	64.31	66.83	64.90	62.22	79.05
17250	65.26	63.60	66.78	63.81	61.40	77.57
17500	64.23	62.80	66.65	62.69	60.62	77.63
17750	63.33	62.17	66.41	62.09	59.89	76.92
18000	62.71	61.54	66.31	61.19	59.25	77.04
18250	62.23	61.20	66.50	60.37	58.79	76.10
18500	61.52	60.56	66.39	59.48	58.33	75.46
18750	61.14	60.30	66.36	59.13	57.80	75.14
19000	60.52	59.77	66.53	58.60	57.22	74.52
19250	60.04	59.26	66.85	58.18	57.00	74.00
19500	59.75	58.76	67.92	57.70	56.46	73.22
19750	59.22	58.39	67.87	57.30	56.26	72.20
20000	58.76	58.01	68.25	56.85	55.87	71.32

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