

# High Pass Filter

RHP-110+

## Typical Performance Data

TEST CONDITIONS: INPUT POWER =0 dBm @ Across Temperature

FREQ. (MHz)	INSERTION LOSS			GROUP DELAY (In-Out)			INPUT RETURN LOSS			OUTPUT RETURN LOSS		
	(dB)			(ns)			(dB)			(dB)		
	@ -40° C	@ +25° C	@ +85° C	@ -40° C	@ +25° C	@ +85° C	@ -40° C	@ +25° C	@ +85° C	@ -40° C	@ +25° C	@ +85° C
0.5	93.56	100.61	97.43	-23.50	-84.71	85.36	0.02	0.01	0.02	0.01	0.01	0.01
1	94.15	100.64	97.91	-20.61	-80.16	80.38	0.01	0.01	0.01	0.01	0.01	0.01
3	96.54	100.75	99.82	-9.07	-61.94	60.48	0.01	0.01	0.01	0.01	0.01	0.01
5	98.92	100.86	101.73	2.47	-43.73	40.57	0.00	0.00	0.00	0.00	0.00	0.00
7	99.43	100.35	100.80	11.24	-37.98	31.79	0.00	0.00	0.00	0.00	0.00	0.00
9	98.65	99.42	97.93	18.12	-40.76	30.61	0.00	0.00	0.00	0.00	0.00	0.01
10	98.26	98.96	96.49	21.56	-42.15	30.03	0.00	0.00	0.00	0.00	0.00	0.01
13	98.44	97.37	95.03	23.78	-44.07	29.39	0.00	0.00	0.00	0.00	0.00	0.01
15	99.11	96.24	95.20	22.03	-44.46	29.42	0.00	0.01	0.01	0.00	0.01	0.01
20	95.15	102.51	101.16	10.11	-37.91	18.60	0.01	0.01	0.01	0.01	0.01	0.02
25	89.75	100.03	101.00	4.72	-30.39	12.14	0.01	0.02	0.02	0.01	0.02	0.03
30	94.79	94.70	99.69	4.62	-25.01	10.84	0.02	0.03	0.03	0.01	0.03	0.04
35	93.72	91.12	92.06	4.67	-20.93	10.05	0.03	0.04	0.05	0.02	0.04	0.06
40	81.60	82.23	79.53	4.85	-17.68	9.59	0.04	0.06	0.07	0.03	0.06	0.08
45	71.26	70.59	70.62	5.19	-14.93	9.43	0.06	0.08	0.09	0.05	0.08	0.10
50	62.78	62.88	62.53	5.78	-12.39	9.64	0.08	0.10	0.11	0.07	0.10	0.14
55	55.77	55.91	55.56	6.61	-9.96	10.13	0.10	0.13	0.14	0.09	0.14	0.17
60	49.60	49.39	49.16	7.31	-7.94	10.51	0.13	0.16	0.18	0.12	0.17	0.21
61	48.41	48.23	48.00	7.38	-7.64	10.52	0.14	0.17	0.19	0.13	0.18	0.22
62	47.22	47.06	46.83	7.44	-7.35	10.53	0.14	0.18	0.20	0.14	0.19	0.23
63	46.03	45.89	45.67	7.50	-7.06	10.54	0.15	0.19	0.21	0.14	0.20	0.24
64	44.84	44.72	44.51	7.56	-6.76	10.54	0.16	0.19	0.22	0.15	0.20	0.25
65	43.73	43.60	43.40	7.76	-6.16	10.11	0.16	0.20	0.23	0.16	0.21	0.26
66	42.63	42.49	42.30	8.00	-5.46	9.53	0.17	0.21	0.24	0.17	0.22	0.27
67	41.53	41.39	41.21	8.24	-4.76	8.95	0.18	0.22	0.25	0.18	0.24	0.28
68	40.44	40.28	40.11	8.49	-4.05	8.38	0.19	0.23	0.27	0.19	0.25	0.29
69	39.34	39.17	39.02	8.73	-3.35	7.80	0.20	0.24	0.28	0.20	0.26	0.30
70	38.27	38.10	37.94	8.97	-2.65	7.22	0.21	0.26	0.29	0.21	0.27	0.32
75	33.02	32.90	32.72	10.05	0.68	4.44	0.27	0.32	0.37	0.28	0.35	0.40
80	27.98	27.87	27.70	7.73	-1.34	7.45	0.35	0.42	0.47	0.37	0.44	0.51
85	23.09	22.98	22.82	5.48	1.80	6.81	0.47	0.56	0.63	0.50	0.59	0.67
86	22.12	22.02	21.86	5.13	2.25	6.67	0.51	0.60	0.67	0.53	0.63	0.71
87	21.16	21.06	20.91	4.87	2.50	6.54	0.55	0.65	0.72	0.58	0.68	0.77
88	20.20	20.11	19.96	4.61	2.75	6.41	0.59	0.69	0.78	0.62	0.73	0.82
89	19.25	19.15	19.01	4.35	2.99	6.28	0.63	0.74	0.83	0.67	0.78	0.88
90	18.29	18.20	18.05	4.09	3.24	6.15	0.68	0.79	0.88	0.72	0.84	0.93
95	13.63	13.57	13.44	5.62	4.04	5.91	1.07	1.22	1.35	1.12	1.29	1.43
100	9.28	9.27	9.18	4.24	6.69	4.56	1.91	2.13	2.33	1.99	2.23	2.44
105	5.63	5.69	5.67	5.77	8.03	6.62	3.73	4.05	4.36	3.85	4.21	4.56
106	4.95	5.02	5.02	6.39	8.15	7.33	4.17	4.51	4.84	4.29	4.68	5.05
107	4.34	4.42	4.44	6.90	8.21	7.86	4.70	5.07	5.43	4.84	5.26	5.66
108	3.93	4.03	4.06	7.11	8.15	7.86	5.54	5.92	6.30	5.70	6.14	6.59
109	3.52	3.63	3.67	7.31	8.08	7.87	6.37	6.77	7.18	6.55	7.03	7.51
110	3.12	3.24	3.29	7.52	8.01	7.87	7.20	7.62	8.06	7.41	7.91	8.43
111	2.71	2.84	2.91	7.73	7.94	7.87	8.03	8.47	8.94	8.26	8.80	9.36
112	2.30	2.44	2.53	7.94	7.87	7.87	8.86	9.32	9.81	9.12	9.68	10.28
113	2.11	2.26	2.35	7.95	7.87	7.87	10.15	10.61	11.13	10.47	11.08	11.75
114	1.93	2.08	2.18	7.95	7.88	7.88	11.46	11.93	12.47	11.86	12.51	13.24
115	1.75	1.91	2.01	7.95	7.89	7.88	12.77	13.25	13.81	13.24	13.94	14.74



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FREQ. (MHz)	INSERTION LOSS			GROUP DELAY (In-Out)			INPUT RETURN LOSS			OUTPUT RETURN LOSS		
	(dB)			(ns)			(dB)			(dB)		
	@ -40° C	@ +25° C	@ +85° C	@ -40° C	@ +25° C	@ +85° C	@ -40° C	@ +25° C	@ +85° C	@ -40° C	@ +25° C	@ +85° C
116	1.57	1.73	1.84	7.95	7.90	7.88	14.08	14.57	15.15	14.63	15.37	16.24
117	1.40	1.56	1.67	7.95	7.91	7.89	15.39	15.89	16.49	16.01	16.80	17.73
118	1.29	1.45	1.56	7.95	7.92	7.89	17.12	17.59	18.17	18.06	18.96	20.06
119	1.22	1.38	1.49	7.96	7.92	7.89	19.09	19.51	20.04	20.50	21.54	22.86
120	1.15	1.31	1.42	7.96	7.92	7.90	21.06	21.43	21.91	22.94	24.12	25.67
122	1.02	1.17	1.28	7.96	7.92	7.91	25.01	25.27	25.66	27.81	29.29	31.29
124	0.94	1.08	1.19	7.95	7.91	7.90	27.50	27.51	27.62	29.80	30.81	32.21
126	0.88	1.02	1.12	7.94	7.90	7.88	29.23	28.91	28.66	30.29	30.45	30.71
128	0.82	0.95	1.06	7.93	7.89	7.86	30.96	30.31	29.70	30.78	30.08	29.22
130	0.78	0.92	1.01	7.91	7.86	7.84	29.96	29.53	29.15	29.34	28.85	28.23
132	0.75	0.88	0.97	7.88	7.84	7.82	28.97	28.76	28.61	27.89	27.62	27.23
134	0.72	0.84	0.93	7.85	7.81	7.80	28.46	28.41	28.44	27.00	26.88	26.69
136	0.69	0.81	0.90	7.81	7.78	7.76	28.86	28.85	28.98	27.16	27.09	26.98
138	0.66	0.78	0.87	7.78	7.74	7.72	29.25	29.29	29.53	27.31	27.30	27.28
140	0.64	0.75	0.84	7.74	7.70	7.68	30.49	30.52	30.84	27.96	27.98	28.01
142	0.62	0.73	0.81	7.69	7.66	7.64	32.12	32.10	32.50	28.83	28.88	28.93
144	0.59	0.71	0.78	7.65	7.61	7.59	33.85	33.76	34.21	29.72	29.77	29.86
146	0.58	0.68	0.76	7.59	7.55	7.53	38.64	37.35	37.09	30.80	30.83	30.84
148	0.56	0.66	0.74	7.53	7.49	7.47	43.43	40.94	39.98	31.88	31.89	31.82
150	0.54	0.64	0.72	7.47	7.43	7.41	45.19	42.31	40.89	32.54	32.53	32.35
160	0.48	0.57	0.64	7.04	7.00	6.97	31.15	30.94	30.24	29.84	29.69	29.17
170	0.43	0.52	0.58	6.30	6.25	6.21	26.27	26.06	25.65	26.02	25.81	25.41
175	0.41	0.50	0.56	5.78	5.73	5.69	25.08	24.81	24.43	24.93	24.65	24.27
180	0.39	0.48	0.54	5.22	5.17	5.14	24.33	23.99	23.61	24.23	23.89	23.50
185	0.38	0.46	0.53	4.70	4.67	4.64	23.87	23.45	23.05	23.81	23.39	22.99
190	0.37	0.45	0.51	4.28	4.25	4.23	23.62	23.12	22.70	23.55	23.06	22.63
195	0.35	0.43	0.49	3.93	3.91	3.89	23.51	22.96	22.51	23.46	22.90	22.43
200	0.34	0.42	0.48	3.65	3.63	3.61	23.53	22.92	22.44	23.52	22.89	22.39
225	0.29	0.36	0.42	2.70	2.69	2.68	24.74	24.08	23.52	24.81	24.09	23.45
250	0.24	0.31	0.36	2.15	2.13	2.13	27.24	26.68	26.18	27.29	26.75	26.13
275	0.21	0.28	0.33	1.78	1.77	1.77	31.27	30.52	30.06	31.16	30.77	30.32
300	0.19	0.26	0.31	1.52	1.51	1.51	36.76	35.34	34.61	37.11	36.62	36.52
310	0.18	0.25	0.30	1.44	1.43	1.42	38.79	37.21	36.17	40.22	39.52	39.63
320	0.18	0.25	0.30	1.36	1.35	1.35	39.83	38.23	36.95	42.86	41.57	41.59
325	0.17	0.25	0.30	1.33	1.32	1.32	39.78	38.21	36.85	43.37	41.63	41.31
330	0.17	0.24	0.29	1.30	1.29	1.28	39.49	37.90	36.51	43.32	41.17	40.52
340	0.16	0.24	0.29	1.23	1.22	1.22	38.52	36.76	35.38	41.27	38.95	37.84
350	0.16	0.23	0.28	1.18	1.17	1.17	37.26	35.36	33.98	39.00	36.78	35.50
360	0.16	0.23	0.28	1.13	1.12	1.12	36.03	34.08	32.66	37.07	35.02	33.62
370	0.15	0.23	0.28	1.08	1.07	1.07	34.85	32.93	31.45	35.54	33.63	32.15
380	0.15	0.23	0.28	1.04	1.03	1.03	33.80	31.95	30.42	34.27	32.49	30.94
390	0.15	0.22	0.27	1.00	0.99	0.99	32.86	31.10	29.52	33.22	31.55	29.94
400	0.14	0.22	0.28	0.97	0.96	0.96	32.10	30.42	28.78	32.36	30.74	29.10
425	0.13	0.22	0.27	0.89	0.89	0.88	30.56	28.90	27.20	30.77	29.11	27.43
450	0.13	0.21	0.27	0.83	0.82	0.82	29.75	27.84	26.11	29.88	27.95	26.26
475	0.13	0.21	0.27	0.78	0.77	0.77	29.16	27.04	25.28	29.18	27.11	25.38
500	0.13	0.21	0.28	0.73	0.72	0.72	28.62	26.42	24.60	28.58	26.46	24.66
550	0.12	0.21	0.28	0.66	0.65	0.65	27.87	25.48	23.48	27.75	25.42	23.46
600	0.12	0.21	0.29	0.61	0.60	0.60	27.44	24.75	22.68	27.24	24.64	22.62
650	0.12	0.22	0.30	0.57	0.56	0.56	27.18	24.25	22.06	26.87	24.07	21.93
700	0.11	0.22	0.30	0.54	0.53	0.53	26.79	23.76	21.46	26.48	23.60	21.36
750	0.12	0.23	0.32	0.51	0.50	0.50	26.31	23.33	21.02	25.96	23.15	20.93
800	0.12	0.24	0.33	0.49	0.48	0.48	26.14	22.97	20.59	25.70	22.73	20.44
850	0.12	0.24	0.34	0.47	0.46	0.46	25.75	22.56	20.15	25.33	22.36	20.05
900	0.12	0.25	0.35	0.46	0.45	0.45	25.45	22.16	19.78	25.07	21.98	19.70
950	0.12	0.26	0.37	0.45	0.44	0.44	25.16	21.79	19.45	24.80	21.63	19.38



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1000	0.12	0.27	0.38	0.44	0.43	0.43	24.80	21.44	19.14	24.55	21.36	19.14
1100	0.13	0.28	0.41	0.42	0.41	0.41	23.82	20.73	18.47	23.70	20.76	18.56
1200	0.14	0.30	0.43	0.41	0.40	0.40	22.97	20.16	18.08	22.81	20.18	18.16
1300	0.15	0.32	0.45	0.40	0.39	0.39	21.99	19.62	17.69	21.89	19.71	17.84
1400	0.15	0.33	0.48	0.39	0.38	0.38	21.43	19.17	17.38	21.36	19.26	17.52
1500	0.16	0.35	0.50	0.39	0.38	0.37	21.40	18.84	17.16	21.28	18.91	17.29
1600	0.17	0.37	0.52	0.38	0.37	0.37	20.29	18.57	17.11	20.18	18.69	17.28
1700	0.18	0.38	0.54	0.38	0.37	0.36	20.02	18.38	17.01	19.96	18.49	17.16
1800	0.19	0.40	0.56	0.37	0.36	0.36	19.79	18.28	17.18	19.85	18.45	17.39
1900	0.20	0.41	0.57	0.37	0.36	0.36	19.33	18.30	17.53	19.34	18.46	17.75
2000	0.20	0.42	0.59	0.37	0.36	0.36	19.56	18.47	17.69	19.56	18.67	17.92
2050	0.20	0.43	0.60	0.37	0.36	0.35	19.44	18.57	17.92	19.39	18.73	18.12
2100	0.20	0.43	0.61	0.37	0.36	0.35	19.80	18.80	18.14	19.74	18.93	18.29
2150	0.20	0.44	0.62	0.37	0.35	0.35	20.21	18.98	18.33	20.22	19.06	18.43
2200	0.20	0.44	0.63	0.37	0.35	0.35	20.62	19.19	18.57	20.66	19.30	18.65
2250	0.20	0.44	0.63	0.37	0.36	0.35	20.32	19.45	19.00	20.28	19.55	19.06
2300	0.21	0.45	0.64	0.36	0.35	0.35	20.18	19.74	19.56	19.98	19.76	19.54
2350	0.20	0.45	0.64	0.36	0.35	0.35	20.88	20.05	19.92	20.80	20.09	19.89
2400	0.21	0.46	0.65	0.36	0.35	0.35	21.16	20.38	20.40	21.06	20.41	20.34
2450	0.21	0.46	0.66	0.36	0.35	0.35	21.22	20.77	20.97	21.01	20.76	20.89
2500	0.21	0.47	0.67	0.36	0.35	0.35	22.32	21.22	21.26	22.14	21.15	20.99
2550	0.21	0.48	0.68	0.37	0.35	0.35	23.20	21.65	21.74	23.33	21.67	21.34
2600	0.21	0.48	0.69	0.36	0.35	0.35	22.38	22.15	22.80	22.18	21.99	22.19
2650	0.22	0.49	0.70	0.36	0.36	0.35	22.54	22.64	23.65	22.31	22.55	23.09
2700	0.23	0.50	0.72	0.37	0.36	0.36	23.74	23.21	24.21	23.83	23.18	23.56
2750	0.24	0.52	0.74	0.37	0.36	0.36	23.62	23.68	24.90	23.93	23.97	24.40
2775	0.26	0.54	0.76	0.37	0.36	0.36	23.68	23.88	25.24	24.21	24.52	25.15
2800	0.28	0.57	0.80	0.37	0.36	0.35	24.02	24.03	25.46	25.14	25.41	26.17
2825	0.32	0.62	0.86	0.35	0.34	0.33	24.09	23.81	25.03	26.69	26.49	27.19
2850	0.40	0.70	0.95	0.33	0.32	0.31	23.41	23.09	24.06	28.47	27.78	27.86
2875	0.50	0.80	1.03	0.32	0.31	0.31	21.96	21.92	22.90	27.97	27.09	26.26
2900	0.51	0.79	1.01	0.32	0.31	0.31	21.27	21.55	22.67	24.73	24.53	24.07
2925	0.42	0.71	0.93	0.33	0.32	0.32	21.63	22.07	23.33	23.04	23.31	23.14
2950	0.35	0.65	0.87	0.34	0.33	0.33	22.40	22.85	24.09	22.71	22.99	22.79
2975	0.30	0.61	0.84	0.36	0.35	0.35	23.22	23.57	24.76	22.90	23.02	22.73
3000	0.28	0.58	0.82	0.37	0.36	0.36	23.85	24.09	25.28	23.16	23.17	22.75
3050	0.26	0.57	0.81	0.37	0.36	0.36	24.91	25.06	26.38	23.64	23.36	22.92
3100	0.25	0.56	0.81	0.37	0.36	0.35	25.16	25.67	27.27	23.47	23.51	23.19
3150	0.25	0.57	0.82	0.36	0.35	0.35	25.17	25.94	27.82	23.25	23.57	23.44
3200	0.26	0.58	0.83	0.36	0.35	0.35	25.49	26.13	27.99	23.60	23.80	23.55
3250	0.26	0.58	0.84	0.36	0.35	0.35	25.57	26.45	28.12	23.29	23.70	23.50
3300	0.26	0.59	0.85	0.36	0.35	0.35	26.07	26.43	27.76	23.68	23.65	23.31
3350	0.26	0.60	0.87	0.36	0.35	0.35	26.39	26.31	27.27	23.93	23.65	23.05
3400	0.27	0.61	0.88	0.36	0.35	0.35	26.21	26.26	26.97	23.62	23.49	22.79
3450	0.27	0.62	0.90	0.36	0.35	0.35	26.84	26.10	26.58	24.21	23.43	22.76
3500	0.27	0.63	0.92	0.37	0.35	0.35	26.82	25.95	26.34	24.23	23.25	22.65
3550	0.28	0.64	0.93	0.36	0.35	0.35	25.78	25.73	26.11	23.43	23.18	22.66
3600	0.29	0.65	0.95	0.36	0.35	0.35	25.04	25.47	25.67	22.90	23.01	22.56
3650	0.30	0.66	0.97	0.37	0.36	0.35	24.55	25.04	25.28	22.49	22.83	22.45
3700	0.31	0.68	0.98	0.37	0.36	0.35	24.53	24.65	24.86	22.65	22.77	22.42
3750	0.33	0.70	1.01	0.37	0.36	0.35	24.26	24.42	24.52	22.51	22.73	22.52
3800	0.34	0.72	1.03	0.37	0.36	0.35	23.86	24.08	24.24	22.41	22.77	22.77
3850	0.35	0.74	1.05	0.37	0.36	0.36	23.18	23.71	24.43	22.13	22.63	22.96
3900	0.37	0.76	1.08	0.37	0.36	0.36	21.98	23.35	24.52	20.97	22.73	23.67
3950	0.39	0.78	1.11	0.37	0.36	0.36	21.74	22.92	23.59	21.11	22.63	23.33
4000	0.43	0.82	1.15	0.37	0.37	0.36	21.20	22.62	23.22	20.92	22.85	23.35



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# High Pass Filter

RHP-110+

## Typical Performance Data

TEST CONDITIONS: INPUT POWER =0 dBm @ Across Temperature

FREQ. (MHz)	INSERTION LOSS			GROUP DELAY (In-Out)			INPUT RETURN LOSS			OUTPUT RETURN LOSS		
	(dB)			(ns)			(dB)			(dB)		
	@ -40° C	@ +25° C	@ +85° C	@ -40° C	@ +25° C	@ +85° C	@ -40° C	@ +25° C	@ +85° C	@ -40° C	@ +25° C	@ +85° C
4050	0.45	0.84	1.18	0.38	0.37	0.36	20.84	22.11	22.95	20.65	22.50	23.73
4100	0.48	0.89	1.24	0.38	0.37	0.37	21.14	21.90	22.53	21.06	22.51	23.41
4150	0.52	0.94	1.30	0.39	0.38	0.38	20.63	21.42	21.98	21.03	22.75	23.96
4200	0.60	1.00	1.37	0.40	0.39	0.39	20.51	21.07	21.21	21.32	22.87	23.67
4250	0.68	1.12	1.50	0.40	0.39	0.39	19.85	20.39	20.43	21.49	23.04	24.05
4300	0.84	1.29	1.68	0.41	0.40	0.39	19.06	19.70	19.74	21.74	24.34	25.75
4350	1.07	1.55	1.99	0.40	0.39	0.38	18.22	18.57	18.47	23.31	25.95	27.31
4400	1.49	2.01	2.49	0.35	0.32	0.30	16.94	17.23	16.97	26.95	29.47	31.03
4450	2.16	2.67	3.20	0.21	0.18	0.15	15.77	15.92	15.69	31.59	50.87	41.03
4500	2.76	3.23	3.64	0.08	0.06	0.05	15.47	15.68	15.72	24.04	26.65	28.07
4600	2.03	2.42	2.71	0.23	0.23	0.26	19.25	19.45	19.75	20.79	23.31	25.33
4700	1.09	1.50	1.86	0.41	0.40	0.40	20.55	21.56	22.11	21.04	23.32	25.40
4800	0.76	1.20	1.59	0.40	0.39	0.39	21.00	21.89	21.95	21.43	23.51	24.36
4900	0.62	1.09	1.52	0.39	0.38	0.38	20.74	22.12	22.71	21.30	23.23	23.81
5000	0.58	1.09	1.51	0.38	0.37	0.37	21.41	22.97	23.19	22.56	22.91	23.59
5100	0.55	1.05	1.44	0.38	0.37	0.37	22.39	23.32	23.18	22.74	24.05	24.74
5200	0.58	1.06	1.53	0.38	0.36	0.36	24.77	24.71	24.79	22.90	24.01	23.91
5300	0.56	1.09	1.51	0.37	0.37	0.36	25.04	26.06	26.03	23.57	23.79	24.62
5400	0.58	1.15	1.54	0.38	0.37	0.36	26.93	28.43	26.56	25.21	24.14	25.66
5500	0.62	1.08	1.66	0.38	0.37	0.35	26.22	27.20	29.56	23.49	25.99	23.69
5600	0.59	1.18	1.63	0.39	0.38	0.37	28.08	29.18	28.63	25.68	25.37	27.10
5700	0.65	1.31	1.79	0.39	0.34	0.36	27.24	26.25	27.49	25.80	25.18	26.17
5800	0.84	1.35	1.88	0.36	0.35	0.35	23.49	24.69	25.89	24.75	24.77	24.23
5900	0.83	1.43	1.85	0.37	0.36	0.36	21.61	22.88	24.52	24.41	24.07	24.02
6000	0.82	1.36	1.87	0.38	0.38	0.38	20.66	22.17	21.85	22.61	21.88	20.83
6100	0.76	1.40	1.96	0.40	0.39	0.39	21.37	21.06	20.88	21.56	20.04	19.53
6200	0.91	1.53	2.07	0.39	0.39	0.39	20.81	19.96	19.75	21.64	18.83	18.57
6300	0.94	1.62	2.23	0.41	0.41	0.38	20.07	18.88	18.47	19.75	18.19	17.56
6400	1.11	1.95	2.56	0.41	0.36	0.36	19.25	18.08	17.61	18.69	16.59	15.75
6500	1.41	2.00	2.61	0.37	0.38	0.39	19.76	16.55	15.46	16.29	15.35	14.84
6600	1.31	2.01	2.70	0.44	0.42	0.42	16.68	15.19	14.47	15.01	14.39	13.95
6700	1.48	2.23	2.99	0.45	0.44	0.43	15.42	14.52	13.69	13.99	13.79	13.18
6800	1.83	2.69	3.41	0.47	0.45	0.46	14.37	13.52	13.12	12.73	12.73	12.78
6900	2.66	3.47	4.36	0.46	0.44	0.43	13.39	13.01	12.90	11.39	12.12	12.19
7000	4.27	5.14	6.15	0.30	0.26	0.22	12.91	12.96	13.09	10.41	11.18	11.59
7100	6.62	7.45	8.12	-0.15	-0.15	-0.17	12.79	12.90	12.86	9.44	10.66	11.20
7200	5.59	6.25	6.76	0.06	0.06	0.11	13.76	14.12	14.57	10.22	12.07	13.19
7300	3.52	4.24	4.77	0.43	0.43	0.46	19.26	18.12	18.21	13.72	15.96	17.82
7400	2.41	3.25	4.00	0.52	0.49	0.51	26.34	22.99	20.92	17.41	20.90	21.95
7500	2.07	2.85	3.74	0.49	0.52	0.51	21.19	21.19	19.61	17.38	20.12	19.55
7600	2.04	2.80	3.75	0.49	0.50	0.51	17.23	17.33	17.81	15.33	17.03	18.46
7700	2.18	3.12	4.29	0.50	0.46	0.49	14.75	16.16	15.94	14.03	16.07	16.60
7800	2.55	3.52	4.75	0.50	0.49	0.49	12.79	14.09	13.38	12.29	14.49	14.34
7900	2.91	4.31	5.54	0.53	0.49	0.46	11.85	12.52	12.99	11.80	13.43	14.34
8000	3.91	5.54	7.53	0.46	0.44	0.34	10.42	10.87	12.11	11.50	12.80	14.47
8100	5.59	7.78	10.02	0.39	0.24	0.04	9.60	10.69	12.77	10.36	12.40	14.50
8200	7.75	10.48	11.22	0.26	-0.16	-0.15	9.43	11.18	13.31	9.12	11.19	13.97
8300	10.86	10.55	9.39	-0.37	-0.27	0.19	9.24	11.70	14.84	9.22	12.14	15.45
8400	9.12	7.81	7.91	-0.05	0.43	0.42	8.98	14.03	16.14	11.68	16.65	17.60
8500	6.13	6.80	7.85	0.41	0.64	0.69	12.24	13.08	14.71	19.73	17.84	17.74



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