

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF (OUT)=30MHz (dB)		
		@LO (dBm)		
		+12	+15	+18
1000.1	1030.1	15.10	14.00	13.63
1180.1	1210.1	13.91	13.55	13.33
1380.1	1410.1	14.80	14.27	13.89
1580.1	1610.1	16.90	15.09	13.86
1780.1	1810.1	15.04	12.91	11.99
1980.1	2010.1	13.00	11.45	10.87
2180.1	2210.1	11.38	10.33	9.98
2380.1	2410.1	9.53	8.94	8.83
2600.1	2630.1	8.35	8.08	8.05
2760.1	2790.1	7.78	7.60	7.59
2960.1	2990.1	7.33	7.17	7.17
3160.1	3190.1	7.27	7.06	7.06
3360.1	3390.1	7.33	7.10	7.09
3560.1	3590.1	7.41	7.11	7.11
3820.1	3850.1	7.79	7.25	7.10
3960.1	3990.1	7.81	7.35	7.26
4160.1	4190.1	7.94	7.31	7.27
4360.1	4390.1	8.71	7.73	7.55
4540.1	4570.1	9.44	8.14	7.88
4740.1	4770.1	9.90	8.37	8.12
4940.1	4970.1	10.05	8.48	8.25
5140.1	5170.1	10.00	8.58	8.35
5340.1	5370.1	10.18	8.74	8.47
5540.1	5570.1	11.13	9.21	8.74
5740.1	5770.1	11.18	9.41	8.97
5940.1	5970.1	10.72	9.21	8.92
6120.1	6150.1	11.22	9.37	8.93
6320.1	6350.1	11.71	9.76	9.23
6520.1	6550.1	11.17	9.56	9.07
6720.1	6750.1	10.25	9.17	8.88
6920.1	6950.1	9.95	8.88	8.71
7120.1	7150.1	9.24	8.64	8.57
7320.1	7350.1	9.30	8.61	8.50
7520.1	7550.1	9.33	8.66	8.51
7720.1	7750.1	9.62	8.88	8.66
7900.1	7930.1	9.98	9.32	9.07
8100.1	8130.1	10.85	10.12	9.75
8300.1	8330.1	11.72	10.82	10.30
8500.1	8530.1	12.58	11.43	10.68
8700.1	8730.1	13.25	11.80	10.84
8900.1	8930.1	14.32	12.14	11.06
9100.1	9130.1	16.61	12.51	11.25
9300.1	9330.1	22.49	13.46	11.55
9500.1	9530.1	27.68	14.25	11.71

RF (IN) (MHz)	LO (MHz)	IP-3 INPUT (dBm)		
		@LO (dBm)		
		+12	+15	+18
1000.1	1030.1	15.26	19.87	19.60
1180.1	1210.1	17.50	23.89	24.02
1380.1	1410.1	15.60	15.35	17.26
1580.1	1610.1	10.33	13.39	18.60
1780.1	1810.1	12.09	19.05	24.50
1980.1	2010.1	14.61	19.33	23.21
2180.1	2210.1	13.27	15.94	17.48
2380.1	2410.1	13.80	18.42	19.87
2600.1	2630.1	13.82	15.70	16.97
2760.1	2790.1	12.56	14.21	15.92
2960.1	2990.1	14.41	16.13	17.30
3160.1	3190.1	14.77	15.38	16.97
3360.1	3390.1	15.70	16.35	17.29
3560.1	3590.1	20.46	18.11	17.52
3820.1	3850.1	12.21	14.53	19.07
3960.1	3990.1	13.05	15.45	19.39
4160.1	4190.1	19.16	20.03	25.49
4360.1	4390.1	18.16	24.21	24.05
4540.1	4570.1	15.42	24.85	23.01
4740.1	4770.1	16.06	20.52	21.09
4940.1	4970.1	16.41	18.69	21.20
5140.1	5170.1	23.31	19.09	20.88
5340.1	5370.1	23.50	24.38	23.11
5540.1	5570.1	17.88	22.41	25.99
5740.1	5770.1	16.99	19.96	20.65
5940.1	5970.1	17.01	26.66	20.68
6120.1	6150.1	18.16	22.64	24.70
6320.1	6350.1	18.52	24.88	23.28
6520.1	6550.1	17.92	21.70	22.01
6720.1	6750.1	21.02	22.92	22.85
6920.1	6950.1	18.71	21.81	23.21
7120.1	7150.1	18.61	22.12	23.61
7320.1	7350.1	19.38	23.60	24.51
7520.1	7550.1	19.23	22.00	24.72
7720.1	7750.1	18.94	21.92	22.52
7900.1	7930.1	19.45	20.02	24.06
8100.1	8130.1	19.26	19.25	22.85
8300.1	8330.1	17.73	19.55	22.58
8500.1	8530.1	18.55	21.41	25.19
8700.1	8730.1	19.38	24.33	24.98
8900.1	8930.1	22.22	20.01	23.39
9100.1	9130.1	11.58	20.49	21.00
9300.1	9330.1	6.25	14.27	16.18
9500.1	9530.1	9.95	11.09	16.34

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+10dBm (dB)		
		@LO (dBm)		
		+12	+15	+18
1000.1	1030.1	0.50	0.00	-0.04
1180.1	1210.1	-0.01	-0.05	0.00
1380.1	1410.1	-0.35	-0.28	-0.20
1580.1	1610.1	-1.75	-0.99	-0.42
1780.1	1810.1	-1.25	-0.33	-0.04
1980.1	2010.1	-0.44	-0.05	0.03
2180.1	2210.1	0.40	0.41	0.28
2380.1	2410.1	1.34	0.95	0.58
2600.1	2630.1	1.76	1.25	0.79
2760.1	2790.1	1.97	1.44	0.88
2960.1	2990.1	2.00	1.54	0.99
3160.1	3190.1	1.84	1.39	0.89
3360.1	3390.1	1.55	1.16	0.74
3560.1	3590.1	1.21	0.87	0.59
3820.1	3850.1	0.81	0.51	0.36
3960.1	3990.1	0.71	0.37	0.25
4160.1	4190.1	0.81	0.39	0.22
4360.1	4390.1	0.61	0.35	0.20
4540.1	4570.1	0.46	0.33	0.18
4740.1	4770.1	0.36	0.23	0.13
4940.1	4970.1	0.41	0.24	0.15
5140.1	5170.1	0.38	0.25	0.15
5340.1	5370.1	0.40	0.26	0.18
5540.1	5570.1	0.19	0.14	0.11
5740.1	5770.1	0.25	0.15	0.11
5940.1	5970.1	0.33	0.20	0.14
6120.1	6150.1	0.10	0.17	0.14
6320.1	6350.1	-0.07	0.12	0.14
6520.1	6550.1	0.16	0.27	0.24
6720.1	6750.1	0.47	0.38	0.29
6920.1	6950.1	0.89	0.42	0.31
7120.1	7150.1	1.03	0.37	0.27
7320.1	7350.1	1.02	0.36	0.21
7520.1	7550.1	0.94	0.38	0.19
7720.1	7750.1	0.95	0.42	0.21
7900.1	7930.1	0.95	0.45	0.24
8100.1	8130.1	0.90	0.49	0.31
8300.1	8330.1	0.79	0.43	0.31
8500.1	8530.1	0.60	0.34	0.33
8700.1	8730.1	0.62	0.39	0.44
8900.1	8930.1	0.78	0.51	0.54
9100.1	9130.1	0.74	0.72	0.57
9300.1	9330.1	-0.08	1.30	0.79
9500.1	9530.1	-1.76	1.24	0.98



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IF/RF MICROWAVE COMPONENTS

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS vs. IF FREQUENCY @RF (IN)=3200.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS vs. IF FREQUENCY @RF (IN)=2600.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS vs. IF FREQUENCY @RF (IN)=3800.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+15			+15			+15
1850.0	1350.1	8.51	10.0	2610.1	7.98	2030.0	1770.1	9.79
1770.0	1430.1	8.49	40.0	2640.1	8.09	1990.0	1810.1	9.54
1680.0	1520.1	7.88	80.0	2680.1	8.22	1940.0	1860.1	9.27
1600.0	1600.1	7.90	120.0	2720.1	8.31	1890.0	1910.1	8.78
1510.0	1690.1	7.48	150.0	2750.1	8.33	1850.0	1950.1	8.63
1430.0	1770.1	7.64	190.0	2790.1	8.38	1800.0	2000.1	8.46
1340.0	1860.1	7.40	230.0	2830.1	8.41	1750.0	2050.1	8.42
1260.0	1940.1	7.28	260.0	2860.1	8.40	1710.0	2090.1	8.30
1170.0	2030.1	6.93	300.0	2900.1	8.37	1660.0	2140.1	8.09
1080.0	2120.1	6.66	340.0	2940.1	8.37	1610.0	2190.1	7.99
1000.0	2200.1	6.68	370.0	2970.1	8.34	1570.0	2230.1	7.89
910.0	2290.1	6.55	410.0	3010.1	8.33	1520.0	2280.1	7.78
830.0	2370.1	6.59	450.0	3050.1	8.32	1470.0	2330.1	7.70
740.0	2460.1	6.49	480.0	3080.1	8.31	1420.0	2380.1	7.69
660.0	2540.1	6.63	520.0	3120.1	8.33	1380.0	2420.1	7.67
570.0	2630.1	6.69	560.0	3160.1	8.33	1330.0	2470.1	7.62
490.0	2710.1	6.82	590.0	3190.1	8.36	1280.0	2520.1	7.54
400.0	2800.1	6.88	630.0	3230.1	8.45	1240.0	2560.1	7.46
310.0	2890.1	6.93	670.0	3270.1	8.53	1190.0	2610.1	7.46
230.0	2970.1	7.01	700.0	3300.1	8.62	1140.0	2660.1	7.40
140.0	3060.1	7.06	740.0	3340.1	8.73	1100.0	2700.1	7.39
60.0	3140.1	7.07	780.0	3380.1	8.80	1050.0	2750.1	7.40
10.0	3210.1	7.01	810.0	3410.1	8.90	1000.0	2800.1	7.40
50.0	3250.1	7.08	850.0	3450.1	8.97	950.0	2850.1	7.42
100.0	3300.1	7.13	890.0	3490.1	8.93	910.0	2890.1	7.41
140.0	3340.1	7.15	920.0	3520.1	8.97	860.0	2940.1	7.44
190.0	3390.1	7.20	960.0	3560.1	8.90	810.0	2990.1	7.49
240.0	3440.1	7.22	1000.0	3600.1	8.86	770.0	3030.1	7.51
280.0	3480.1	7.27	1030.0	3630.1	8.92	720.0	3080.1	7.54
330.0	3530.1	7.31	1070.0	3670.1	8.93	670.0	3130.1	7.54
380.0	3580.1	7.29	1110.0	3710.1	8.97	630.0	3170.1	7.51
420.0	3620.1	7.26	1140.0	3740.1	8.94	580.0	3220.1	7.47
470.0	3670.1	7.17	1180.0	3780.1	9.05	530.0	3270.1	7.44
520.0	3720.1	7.12	1220.0	3820.1	9.02	480.0	3320.1	7.37
560.0	3760.1	7.07	1250.0	3850.1	9.03	440.0	3360.1	7.33
610.0	3810.1	7.06	1290.0	3890.1	9.04	390.0	3410.1	7.26
660.0	3860.1	7.09	1330.0	3930.1	9.03	340.0	3460.1	7.21
700.0	3900.1	7.09	1360.0	3960.1	9.08	300.0	3500.1	7.16
750.0	3950.1	7.07	1400.0	4000.1	9.12	250.0	3550.1	7.15
800.0	4000.1	7.04	1440.0	4040.1	9.12	200.0	3600.1	7.17
840.0	4040.1	7.07	1470.0	4070.1	9.06	160.0	3640.1	7.20
890.0	4090.1	7.13	1510.0	4110.1	9.14	110.0	3690.1	7.19
940.0	4140.1	7.24	1550.0	4150.1	9.15	60.0	3740.1	7.19
980.0	4180.1	7.33	1590.0	4190.1	9.16	10.0	3790.1	7.15

Frequency Mixer Die

MDB-73H-D+

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)			RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)					@LO (dBm)		
	+12	+15	+18	+12	+15	+18			+12	+15	+18
1030.1	34.62	37.84	40.47	36.55	33.18	32.98	1000.1	1030.1	12.78	13.90	14.44
1210.1	36.99	39.81	41.93	31.43	31.55	31.78	1180.1	1210.1	12.04	13.19	14.19
1410.1	38.96	41.18	43.01	31.60	31.84	32.11	1380.1	1410.1	12.12	12.94	13.55
1610.1	40.03	41.26	41.97	32.93	32.62	32.45	1580.1	1610.1	10.48	11.04	11.43
1810.1	40.55	40.88	40.82	34.71	33.29	32.23	1780.1	1810.1	10.02	10.42	10.78
2010.1	42.87	40.98	39.69	34.85	32.70	31.88	1980.1	2010.1	9.58	9.91	10.07
2210.1	42.02	39.52	38.18	35.47	33.35	32.34	2180.1	2210.1	9.75	9.75	9.70
2410.1	39.88	38.00	37.07	37.19	34.61	33.57	2380.1	2410.1	9.76	9.61	9.51
2630.1	38.24	37.82	37.60	39.39	37.62	36.69	2600.1	2630.1	9.68	9.61	9.56
2790.1	36.36	36.21	36.31	40.75	39.83	39.16	2760.1	2790.1	11.34	11.29	11.21
2990.1	36.97	36.57	36.44	41.32	41.36	41.46	2960.1	2990.1	12.20	12.19	12.10
3190.1	35.62	36.64	36.69	42.19	43.04	43.74	3160.1	3190.1	13.42	13.50	13.48
3390.1	33.40	34.08	35.14	42.39	43.87	45.48	3360.1	3390.1	13.94	13.98	13.94
3590.1	33.37	33.37	33.69	42.95	43.97	45.29	3560.1	3590.1	14.37	14.14	13.97
3850.1	37.21	36.40	35.57	45.41	46.34	46.99	3820.1	3850.1	15.16	14.70	14.39
3990.1	36.43	35.78	35.36	45.84	46.74	47.58	3960.1	3990.1	15.59	15.13	14.88
4190.1	38.15	37.55	36.82	46.74	47.84	48.44	4160.1	4190.1	16.17	15.57	15.36
4390.1	37.54	37.10	37.00	47.84	48.75	49.54	4360.1	4390.1	16.99	16.38	16.17
4570.1	39.04	37.70	37.22	48.85	49.30	49.83	4540.1	4570.1	17.28	16.81	16.62
4770.1	41.73	40.12	38.65	50.51	51.01	51.23	4740.1	4770.1	17.19	16.80	16.66
4970.1	43.38	40.33	38.43	51.73	51.92	51.84	4940.1	4970.1	16.30	16.04	15.94
5170.1	42.41	39.79	37.58	53.31	52.47	51.36	5140.1	5170.1	16.13	15.90	15.81
5370.1	39.37	38.70	37.23	55.66	53.62	51.59	5340.1	5370.1	15.73	15.54	15.47
5570.1	37.97	36.80	36.32	54.62	51.55	49.86	5540.1	5570.1	14.94	14.87	14.85
5770.1	38.16	36.33	35.68	52.41	49.45	47.75	5740.1	5770.1	15.07	15.04	15.09
5970.1	37.57	35.55	34.37	51.40	48.03	45.60	5940.1	5970.1	13.90	13.85	13.88
6150.1	35.96	34.93	33.76	48.96	45.89	43.27	6120.1	6150.1	12.98	12.99	13.03
6350.1	37.09	36.14	35.14	48.97	47.28	44.83	6320.1	6350.1	13.15	13.20	13.27
6550.1	36.48	35.52	34.40	47.05	45.27	43.22	6520.1	6550.1	12.22	12.32	12.40
6750.1	34.42	33.39	32.32	44.35	42.13	40.18	6720.1	6750.1	12.06	12.18	12.29
6950.1	34.63	33.48	32.45	44.17	41.69	39.81	6920.1	6950.1	12.65	12.78	12.88
7150.1	35.03	33.69	32.56	42.21	39.93	38.27	7120.1	7150.1	12.95	13.13	13.27
7350.1	34.02	33.07	31.97	38.83	36.52	34.90	7320.1	7350.1	13.05	13.30	13.47
7550.1	33.30	33.16	32.41	36.36	34.29	32.88	7520.1	7550.1	12.89	13.19	13.44
7750.1	35.62	36.50	36.08	34.58	32.58	31.12	7720.1	7750.1	11.58	11.96	12.26
7930.1	37.99	39.78	40.27	33.17	31.65	30.30	7900.1	7930.1	12.59	12.93	13.23
8130.1	41.86	39.78	37.88	31.96	30.63	29.35	8100.1	8130.1	12.08	12.39	12.65
8330.1	35.46	32.11	29.99	31.40	30.51	29.35	8300.1	8330.1	11.33	11.69	12.02
8530.1	29.64	27.41	25.76	30.54	30.04	28.90	8500.1	8530.1	11.97	12.47	12.91
8730.1	26.97	25.59	24.17	30.79	31.00	30.11	8700.1	8730.1	12.88	13.52	14.07
8930.1	25.12	24.36	23.06	29.95	30.90	30.47	8900.1	8930.1	12.99	13.65	14.25
9130.1	23.76	24.45	23.87	29.33	31.04	31.70	9100.1	9130.1	14.21	14.78	15.32
9330.1	21.21	21.82	21.37	28.53	29.89	30.22	9300.1	9330.1	14.39	14.87	15.37
9530.1	20.34	21.13	20.70	27.68	29.20	29.22	9500.1	9530.1	15.59	15.91	16.23



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IF/RF MICROWAVE COMPONENTS

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Frequency Mixer Die

MDB-73H-D+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			LO (MHz)	IF VSWR @LO=3800.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+12	+15	+18		+12	+15	+18		+12	+15	+18
1000.1	1030.1	7.33	6.92	6.77	1030.1	6.54	5.24	5.17	10.1	2.23	1.92	1.77
1180.1	1210.1	6.56	6.58	6.61	1210.1	2.88	3.10	3.43	90.1	2.31	1.99	1.84
1380.1	1410.1	6.96	7.08	7.14	1410.1	1.68	2.12	2.40	180.1	2.24	1.94	1.79
1580.1	1610.1	7.30	7.26	7.18	1610.1	1.24	1.62	1.91	270.1	2.09	1.81	1.66
1780.1	1810.1	6.68	6.42	6.23	1810.1	1.16	1.34	1.58	360.1	2.06	1.79	1.65
1980.1	2010.1	5.79	5.52	5.36	2010.1	1.31	1.18	1.37	440.1	1.96	1.71	1.57
2180.1	2210.1	4.77	4.54	4.40	2210.1	1.45	1.14	1.24	530.1	1.82	1.59	1.46
2380.1	2410.1	3.56	3.44	3.39	2410.1	1.56	1.14	1.17	620.1	1.68	1.48	1.36
2600.1	2630.1	2.63	2.62	2.62	2630.1	1.60	1.19	1.17	710.1	1.54	1.35	1.25
2760.1	2790.1	2.06	2.06	2.08	2790.1	1.62	1.20	1.17	800.1	1.32	1.17	1.09
2960.1	2990.1	1.54	1.52	1.53	2990.1	1.73	1.27	1.19	880.1	1.23	1.12	1.09
3160.1	3190.1	1.25	1.27	1.28	3190.1	1.84	1.40	1.26	970.1	1.12	1.12	1.18
3360.1	3390.1	1.17	1.29	1.34	3390.1	1.98	1.51	1.32	1060.1	1.14	1.23	1.31
3560.1	3590.1	1.15	1.31	1.43	3590.1	2.15	1.60	1.36	1150.1	1.25	1.38	1.48
3820.1	3850.1	1.31	1.38	1.44	3850.1	2.42	1.73	1.40	1240.1	1.34	1.48	1.59
3960.1	3990.1	1.40	1.48	1.52	3990.1	2.64	1.83	1.41	1320.1	1.48	1.63	1.76
4160.1	4190.1	1.49	1.49	1.50	4190.1	3.19	2.10	1.54	1410.1	1.57	1.71	1.84
4360.1	4390.1	1.80	1.68	1.63	4390.1	3.40	2.29	1.65	1500.1	1.70	1.83	1.95
4540.1	4570.1	2.11	1.97	1.90	4570.1	3.67	2.43	1.76	1590.1	1.78	1.88	2.01
4740.1	4770.1	2.40	2.25	2.17	4770.1	4.10	2.67	1.87	1680.1	1.90	1.96	2.06
4940.1	4970.1	2.64	2.46	2.36	4970.1	4.30	2.82	2.00	1760.1	1.95	1.95	2.01
5140.1	5170.1	2.83	2.59	2.46	5170.1	4.54	2.96	2.11	1850.1	2.07	1.97	1.97
5340.1	5370.1	2.92	2.66	2.53	5370.1	4.47	2.98	2.21	1940.1	2.24	2.05	1.97
5540.1	5570.1	3.09	2.78	2.65	5570.1	4.61	3.11	2.34	2030.1	2.45	2.17	2.02
5740.1	5770.1	3.15	2.86	2.74	5770.1	4.48	3.09	2.45	2110.1	2.73	2.38	2.17
5940.1	5970.1	3.09	2.78	2.64	5970.1	4.58	3.22	2.59	2200.1	3.03	2.65	2.40
6120.1	6150.1	3.13	2.82	2.65	6150.1	4.31	3.21	2.69	2290.1	3.42	3.02	2.75
6320.1	6350.1	3.20	2.93	2.78	6350.1	4.15	3.22	2.83	2380.1	3.76	3.40	3.16
6520.1	6550.1	3.07	2.82	2.66	6550.1	4.06	3.32	3.03	2470.1	4.18	3.89	3.71
6720.1	6750.1	2.85	2.58	2.44	6750.1	3.99	3.42	3.16	2550.1	4.57	4.35	4.25
6920.1	6950.1	2.62	2.35	2.21	6950.1	3.75	3.36	3.27	2640.1	5.07	4.98	4.98
7120.1	7150.1	2.37	2.13	1.99	7150.1	3.40	3.22	3.21	2730.1	5.52	5.56	5.68
7320.1	7350.1	2.21	1.98	1.82	7350.1	3.10	3.08	3.25	2820.1	6.10	6.28	6.51
7520.1	7550.1	2.10	1.88	1.71	7550.1	2.82	2.99	3.30	2910.1	6.65	6.96	7.27
7720.1	7750.1	1.95	1.76	1.60	7750.1	2.63	2.85	3.17	2990.1	7.20	7.62	8.00
7900.1	7930.1	1.69	1.57	1.45	7930.1	2.57	2.84	3.25	3080.1	7.70	8.19	8.60
8100.1	8130.1	1.59	1.49	1.39	8130.1	2.53	2.82	3.22	3170.1	8.37	8.94	9.33
8300.1	8330.1	1.47	1.39	1.32	8330.1	2.50	2.78	3.11	3260.1	8.90	9.43	9.82
8500.1	8530.1	1.41	1.35	1.30	8530.1	2.43	2.72	3.09	3350.1	9.62	10.09	10.40
8700.1	8730.1	1.43	1.38	1.34	8730.1	2.42	2.65	2.98	3430.1	10.08	10.50	10.74
8900.1	8930.1	1.52	1.50	1.47	8930.1	2.38	2.58	2.87	3520.1	10.51	10.77	10.94
9100.1	9130.1	1.68	1.67	1.66	9130.1	2.29	2.44	2.67	3610.1	11.18	11.42	11.54
9300.1	9330.1	1.87	1.86	1.84	9330.1	2.18	2.26	2.46	3700.1	11.58	11.70	11.77
9500.1	9530.1	2.12	2.07	2.00	9530.1	1.99	2.05	2.17	3790.1	12.65	12.72	12.65



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