

Frequency Mixer

LRMS-3+

Typical Performance Data

RF (MHz)	LO (MHz)	CONVERSION LOSS (dB)			LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)			LO (MHz)	RF (MHz)	IP3 Input (dBm)
		@LO (dBm)				@LO (dBm)			@LO (dBm)					
		+4	+7	+10		+4	+7	+10	+4	+7	+10			+7
0.1	30.0	6.26	5.80	5.82	30.0	61.70	61.84	62.06	50.52	49.36	49.28	40.0	10.0	15.46
6.4	36.4	4.93	4.73	4.64	36.4	60.04	60.37	60.66	48.75	47.64	47.80	54.8	24.8	18.14
10.0	40.0	5.00	3.99	4.24	40.0	59.87	60.79	62.09	50.27	49.08	50.22	69.5	39.5	18.34
24.8	54.8	4.92	4.74	4.71	54.8	59.32	58.16	61.20	47.37	46.49	47.68	84.3	54.3	18.07
39.5	69.5	5.36	4.93	4.65	69.5	56.59	56.70	58.93	44.84	44.18	45.39	99.0	69.0	17.40
54.3	84.3	5.04	4.96	4.74	84.3	55.23	56.26	58.40	43.64	43.31	44.60	113.8	83.8	16.87
69.0	99.0	5.33	4.74	4.86	99.0	53.71	54.92	56.56	42.28	42.12	43.24	128.5	98.5	15.17
83.8	113.8	5.10	4.79	4.70	113.8	52.99	55.35	56.85	41.41	41.17	42.29	143.3	113.3	13.11
98.5	128.5	5.06	5.02	4.79	128.5	50.92	52.59	53.74	41.33	40.66	41.72	158.0	128.0	12.52
113.3	143.3	5.20	4.94	4.81	143.3	49.83	51.39	52.76	40.31	39.67	40.65	172.8	142.8	11.89
128.0	158.0	5.40	5.04	4.87	158.0	51.09	52.20	53.91	40.55	39.42	40.14	187.5	157.5	10.36
142.8	172.8	5.38	5.05	5.02	172.8	52.07	54.14	55.94	39.65	38.44	39.14	202.3	172.3	11.46
157.5	187.5	5.48	5.06	5.06	187.5	51.27	53.50	56.26	38.95	38.02	38.86	217.0	187.0	13.69
172.3	202.3	5.38	5.12	4.86	202.3	48.79	50.84	53.73	37.81	36.81	37.69	231.8	201.8	14.86
187.0	217.0	5.49	5.18	4.98	217.0	45.53	48.06	50.19	36.86	34.86	35.64	246.5	216.5	12.24
201.8	231.8	5.58	5.21	5.04	231.8	43.70	46.21	48.34	35.08	32.93	33.62	261.3	231.3	9.29
216.5	246.5	5.67	5.27	5.13	246.5	42.02	43.95	45.46	35.54	33.17	33.14	276.0	246.0	7.86
231.3	261.3	5.71	5.39	5.20	261.3	41.24	42.65	43.75	34.91	32.64	32.61	290.8	260.8	7.32
246.0	276.0	5.74	5.42	5.22	276.0	40.63	41.82	42.54	34.11	31.72	31.64	305.5	275.5	7.85
260.8	290.8	5.72	5.40	5.27	290.8	40.35	41.07	41.19	33.20	30.56	30.20	320.3	290.3	9.10
275.5	305.5	5.73	5.36	5.09	305.5	40.54	41.23	41.38	32.18	28.72	28.40	335.0	305.0	10.71
290.3	320.3	5.84	5.37	5.18	320.3	40.77	40.65	40.60	30.37	27.05	26.99	349.8	319.8	13.08
305.0	335.0	6.09	5.46	5.25	335.0	40.57	39.89	39.36	30.07	26.36	26.10	364.5	334.5	16.24
319.8	349.8	6.26	5.47	5.17	349.8	40.09	39.29	39.03	28.73	25.06	25.08	379.3	349.3	11.96
334.5	364.5	6.39	5.52	5.22	364.5	39.46	38.94	38.88	28.05	24.25	24.28	394.0	364.0	9.04
349.3	379.3	6.74	5.74	5.30	379.3	38.97	38.99	39.04	28.13	24.31	23.79	408.8	378.8	8.32
364.0	394.0	6.95	5.85	5.33	394.0	38.76	39.38	40.20	27.42	23.78	22.99	423.5	393.5	8.08
378.8	408.8	7.11	6.03	5.52	408.8	38.93	40.42	41.99	26.33	23.05	22.48	438.3	408.3	7.85
393.5	423.5	7.41	6.42	5.85	423.5	39.05	40.89	42.60	25.84	23.17	22.25	453.0	423.0	8.65
408.3	438.3	7.52	6.58	5.96	438.3	39.53	42.48	44.62	25.00	22.44	21.46	467.8	437.8	8.96
423.0	453.0	7.33	6.60	6.11	453.0	40.88	45.24	44.15	24.14	21.41	20.51	482.5	452.5	11.37
437.8	467.8	7.43	6.96	6.59	467.8	41.79	47.69	43.71	23.47	21.12	20.38	497.3	467.3	14.83
452.5	482.5	7.69	7.21	6.86	482.5	44.49	47.00	39.58	22.54	19.86	19.01	512.0	482.0	18.37
467.3	497.3	7.54	7.20	6.93	497.3	53.93	38.95	34.68	21.33	18.44	17.62	526.8	496.8	16.81
482.0	512.0	7.60	7.33	7.12	512.0	48.10	35.30	32.14	20.19	17.09	16.16	541.5	511.5	14.00
496.8	526.8	7.64	7.35	7.10	526.8	41.22	32.60	30.13	19.10	16.33	15.25	556.3	526.3	12.90
526.3	556.3	7.86	7.73	7.61	556.3	33.23	28.14	26.26	17.22	14.67	13.97	571.0	541.0	11.83
541.0	571.0	8.08	7.91	7.77	571.0	30.49	26.30	24.78	16.33	13.98	13.32	585.8	555.8	11.97
555.8	585.8	8.24	8.14	8.06	585.8	27.95	24.51	23.13	15.51	13.48	12.79	600.5	570.5	12.57
570.5	600.5	8.60	8.51	8.48	600.5	26.18	23.41	22.21	14.74	12.89	12.43	615.3	585.3	11.17
600.0	630.0	9.18	9.11	9.10	630.0	22.91	20.90	20.62	13.43	11.90	10.63	630.0	600.0	9.94

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Frequency Mixer

LRMS-3+

Typical Performance Data

RF/LO (MHz)	RF VSWR (:1)			LO VSWR (:1)			IF (MHz)	IF VSWR (:1)		
	@LO (dBm)			@LO (dBm)				@LO (dBm)		
	+4	+7	+10	+4	+7	+10		+4	+7	+10
0.1	2.70	2.50	2.39	1.68	2.47	3.41	10.0	1.11	1.04	1.19
6.4	1.38	1.28	1.21	1.67	2.46	3.40	24.8	1.11	1.09	1.20
10.0	1.34	1.23	1.15	1.48	2.02	2.63	39.5	1.14	1.13	1.24
24.8	1.34	1.23	1.16	1.48	2.02	2.61	54.3	1.17	1.19	1.28
39.5	1.33	1.23	1.16	1.48	2.01	2.60	69.0	1.18	1.22	1.31
54.3	1.32	1.22	1.16	1.47	2.01	2.60	83.8	1.23	1.28	1.36
69.0	1.31	1.22	1.15	1.49	2.01	2.59	98.5	1.27	1.35	1.43
83.8	1.30	1.21	1.15	1.50	2.04	2.62	113.3	1.26	1.38	1.48
98.5	1.29	1.21	1.15	1.51	2.07	2.65	128.0	1.28	1.41	1.52
113.3	1.28	1.20	1.15	1.53	2.09	2.68	142.8	1.31	1.46	1.58
128.0	1.27	1.20	1.15	1.55	2.11	2.70	157.5	1.31	1.49	1.62
142.8	1.28	1.19	1.15	1.56	2.12	2.70	172.3	1.33	1.51	1.65
157.5	1.27	1.20	1.15	1.60	2.14	2.74	187.0	1.38	1.58	1.72
172.3	1.24	1.17	1.14	1.62	2.19	2.80	201.8	1.38	1.61	1.76
187.0	1.21	1.15	1.12	1.64	2.22	2.85	216.5	1.35	1.58	1.74
201.8	1.19	1.13	1.12	1.69	2.27	2.89	231.3	1.35	1.59	1.76
216.5	1.19	1.13	1.13	1.73	2.32	2.92	246.0	1.37	1.61	1.80
233.0	1.18	1.14	1.13	1.74	2.33	2.93	260.8	1.36	1.61	1.81
246.0	1.17	1.15	1.15	1.77	2.35	2.96	275.5	1.37	1.63	1.82
260.8	1.17	1.15	1.15	1.80	2.39	3.02	290.3	1.38	1.66	1.86
275.5	1.17	1.14	1.14	1.83	2.44	3.10	305.0	1.35	1.62	1.83
290.3	1.17	1.13	1.12	1.86	2.48	3.15	319.8	1.31	1.57	1.78
305.0	1.18	1.12	1.09	1.91	2.51	3.14	334.5	1.33	1.59	1.81
319.8	1.19	1.10	1.05	1.95	2.53	3.14	349.3	1.33	1.60	1.82
334.5	1.20	1.09	1.02	2.00	2.57	3.17	364.0	1.30	1.56	1.77
349.3	1.26	1.12	1.07	2.06	2.65	3.25	378.8	1.33	1.59	1.80
364.0	1.33	1.19	1.14	2.11	2.72	3.34	393.5	1.33	1.60	1.81
378.8	1.39	1.26	1.20	2.15	2.78	3.39	408.3	1.26	1.51	1.71
393.5	1.47	1.34	1.28	2.14	2.76	3.35	423.0	1.27	1.51	1.70
408.3	1.57	1.46	1.41	2.13	2.73	3.31	437.8	1.29	1.55	1.74
423.0	1.64	1.56	1.53	2.14	2.73	3.28	452.5	1.25	1.49	1.67
437.8	1.70	1.65	1.63	2.17	2.76	3.31	467.3	1.24	1.46	1.64
452.5	1.82	1.79	1.78	2.20	2.80	3.34	482.0	1.27	1.50	1.68
467.3	1.93	1.91	1.92	2.21	2.80	3.32	496.8	1.26	1.46	1.62
482.0	2.01	2.01	2.02	2.17	2.73	3.21	511.5	1.25	1.42	1.56
496.8	2.14	2.12	2.14	2.13	2.65	3.10	526.3	1.25	1.43	1.56
526.3	2.25	2.23	2.24	2.17	2.66	3.14	541.0	1.27	1.42	1.54
541.0	2.33	2.30	2.31	2.19	2.69	3.18	555.8	1.23	1.41	1.50
555.8	2.43	2.39	2.40	2.21	2.69	3.19	570.5	1.27	1.41	1.49
570.5	2.50	2.46	2.47	2.21	2.64	3.10	585.3	1.33	1.43	1.50
600.0	2.56	2.50	2.50	2.26	2.64	3.08	600.0	1.37	1.44	1.50

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