

Frequency Mixer

LAVI-ED12801/1

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)					@LO (dBm)
		+19	+22	+25		+19	+22	+25	+19	+22	+25			+22
0.3	30.3	8.49	8.34	8.24	30.3	62.0	61.7	61.4	46.5	46.3	46.0	40.0	0.3	32.6
0.9	30.9	8.45	8.30	8.20	30.9	61.9	61.5	61.3	46.4	46.1	45.9	41.0	0.9	32.8
1.5	31.5	8.41	8.27	8.16	31.5	61.7	61.4	61.1	46.3	46.0	45.8	42.0	1.5	32.5
2.0	32.0	8.44	8.29	8.19	32.0	61.6	61.3	61.0	46.1	45.9	45.7	44.0	2.0	32.2
4.0	34.0	8.43	8.29	8.18	34.0	61.1	60.8	60.5	45.7	45.5	45.3	46.5	4.0	31.6
6.0	36.0	8.65	8.52	8.41	36.0	60.7	60.5	60.1	45.4	45.1	44.9	49.0	6.0	31.3
8.0	38.0	8.63	8.50	8.39	38.0	60.3	60.1	59.7	45.0	44.8	44.6	51.5	8.0	31.3
10.0	40.0	8.67	8.54	8.42	40.0	60.0	59.8	59.4	44.7	44.5	44.3	54.0	10.0	31.1
20.0	50.0	8.72	8.59	8.48	50.0	58.7	58.4	58.0	43.6	43.4	43.2	68.0	20.0	31.3
30.0	60.0	8.42	8.25	8.56	60.0	57.9	57.6	57.1	43.0	42.9	42.6	82.0	30.0	32.0
40.0	70.0	8.68	8.54	8.45	70.0	57.4	57.1	56.7	42.8	42.6	42.5	96.0	40.0	32.8
50.0	80.0	8.68	8.54	8.46	80.0	57.2	56.8	56.7	42.8	42.5	42.7	110.0	50.0	33.3
60.0	90.0	8.71	8.58	8.49	90.0	56.9	56.6	56.6	42.7	42.5	42.8	124.0	60.0	33.3
77.0	107.0	8.81	8.67	8.59	107.0	56.3	56.0	55.8	42.6	42.3	42.5	144.0	77.0	32.9
94.0	124.0	8.79	8.65	8.53	124.0	55.6	55.1	54.2	42.4	42.1	41.9	164.0	94.0	33.2
111.0	141.0	8.79	8.65	8.53	141.0	55.2	54.7	53.8	42.6	42.3	42.1	184.0	111.0	33.0
128.0	158.0	8.92	8.78	8.70	158.0	55.6	55.0	54.2	43.0	42.8	42.8	204.0	128.0	32.4
145.0	175.0	8.97	8.82	8.74	175.0	56.4	55.7	55.8	43.5	43.2	43.7	224.0	145.0	33.1
162.0	192.0	8.93	8.77	8.68	192.0	56.9	56.1	56.2	43.6	43.4	43.7	244.0	162.0	32.7
179.0	209.0	8.97	8.82	8.70	209.0	56.7	55.6	54.8	43.3	43.0	42.9	264.0	179.0	31.9
196.0	226.0	9.11	8.96	8.84	226.0	56.8	55.5	54.5	42.9	42.6	42.4	284.0	196.0	32.4
213.0	243.0	9.09	8.93	8.82	243.0	57.6	56.2	55.0	42.7	42.4	42.1	304.0	213.0	32.9
230.0	260.0	9.18	9.02	8.93	260.0	59.3	57.8	57.7	42.7	42.4	42.3	324.0	230.0	33.6
247.0	277.0	9.31	9.15	9.05	277.0	60.4	58.7	59.1	42.6	42.2	42.4	344.0	247.0	33.3
264.0	294.0	9.38	9.21	9.08	294.0	60.8	58.8	58.3	42.1	41.7	41.7	364.0	264.0	32.8
281.0	311.0	9.32	9.15	9.01	311.0	59.9	58.0	56.5	41.2	40.8	40.5	384.0	281.0	32.2
298.0	328.0	9.47	9.30	9.17	328.0	59.0	57.4	56.0	40.6	40.2	39.8	404.0	298.0	32.3
315.0	345.0	9.61	9.43	9.34	345.0	58.6	57.3	56.5	40.3	39.9	39.7	424.0	315.0	33.1
332.0	362.0	9.60	9.41	9.31	362.0	58.3	57.3	58.0	40.4	39.9	40.3	444.0	332.0	33.5
349.0	379.0	9.75	9.57	9.44	379.0	57.1	56.4	56.8	40.0	39.6	39.9	464.0	349.0	33.0
366.0	396.0	9.93	9.75	9.59	396.0	55.4	54.7	54.2	39.3	38.9	38.5	484.0	366.0	32.6
383.0	413.0	9.95	9.77	9.61	413.0	53.6	53.0	52.6	38.6	38.2	37.9	504.0	383.0	33.3
400.0	430.0	9.92	9.75	9.62	430.0	52.7	52.2	51.8	38.4	38.0	37.8			
406.3	436.3	9.99	9.82	9.71	436.3	52.5	52.1	51.9	38.5	38.1	38.0			
412.5	442.5	10.06	9.88	9.77	442.5	52.4	52.1	52.2	38.7	38.3	38.5			
418.8	448.8	10.18	10.00	9.89	448.8	52.4	52.1	52.4	38.9	38.5	38.9			
425.0	455.0	10.25	10.06	9.93	455.0	52.2	51.9	52.4	39.0	38.7	39.0			
431.3	461.3	10.32	10.12	10.00	461.3	52.1	51.8	52.2	39.1	38.8	39.1			
437.5	467.5	10.32	10.12	9.98	467.5	51.8	51.6	51.9	39.2	38.9	39.1			
443.8	473.8	10.34	10.14	9.99	473.8	51.5	51.2	51.2	39.2	38.9	38.9			
450.0	480.0	10.33	10.14	9.97	480.0	51.0	50.8	50.5	39.2	38.8	38.6			

Frequency Mixer

LAVI-ED12801/1

Typical Performance Data

RF/LO (MHz)	RF VSWR (:1)			LO VSWR (:1)			IF (MHz)	IF VSWR (:1)		
	@LO (dBm)			@LO (dBm)				@LO (dBm)		
	+19	+22	+25	+19	+22	+25		+19	+22	+25
30.3	1.41	1.44	1.46	2.23	2.24	2.19	0.3	1.62	1.66	1.70
30.9	1.40	1.43	1.45	2.22	2.23	2.18	0.9	1.56	1.60	1.64
31.5	1.40	1.42	1.45	2.22	2.23	2.17	1.5	1.54	1.59	1.62
32.0	1.40	1.42	1.45	2.22	2.23	2.16	2.0	1.54	1.58	1.62
34.0	1.40	1.43	1.45	2.22	2.22	2.14	4.0	1.54	1.58	1.62
36.0	1.40	1.43	1.46	2.22	2.22	2.13	6.0	1.55	1.59	1.63
38.0	1.41	1.44	1.46	2.22	2.21	2.12	8.0	1.56	1.61	1.65
40.0	1.42	1.44	1.47	2.21	2.21	2.12	10.0	1.57	1.62	1.66
50.0	1.44	1.47	1.50	2.22	2.22	2.10	20.0	1.64	1.69	1.74
60.0	1.48	1.50	1.53	2.25	2.26	2.17	30.0	1.70	1.75	1.78
70.0	1.50	1.53	1.56	2.32	2.31	2.36	40.0	1.75	1.81	1.86
80.0	1.53	1.56	1.58	2.38	2.40	2.47	50.0	1.82	1.88	1.93
90.0	1.55	1.57	1.60	2.42	2.44	2.55	60.0	1.86	1.93	1.98
107.0	1.59	1.61	1.63	2.39	2.37	2.49	77.0	1.90	1.97	2.02
124.0	1.64	1.66	1.69	2.28	2.27	2.16	94.0	1.93	2.00	2.06
141.0	1.67	1.69	1.71	2.24	2.24	2.06	111.0	1.94	2.01	2.07
158.0	1.71	1.72	1.74	2.35	2.35	2.39	128.0	1.92	1.99	2.05
175.0	1.77	1.78	1.80	2.51	2.52	2.69	145.0	1.89	1.96	2.02
192.0	1.81	1.82	1.82	2.52	2.50	2.70	162.0	1.84	1.90	1.95
209.0	1.85	1.85	1.85	2.37	2.36	2.21	179.0	1.79	1.86	1.91
226.0	1.91	1.90	1.90	2.28	2.28	2.06	196.0	1.75	1.80	1.86
243.0	1.95	1.94	1.94	2.40	2.40	2.45	213.0	1.66	1.71	1.74
260.0	2.01	1.99	1.98	2.64	2.66	2.96	230.0	1.60	1.64	1.68
277.0	2.10	2.08	2.06	2.72	2.70	3.00	247.0	1.54	1.58	1.61
294.0	2.18	2.16	2.14	2.52	2.52	2.32	264.0	1.47	1.50	1.52
311.0	2.24	2.21	2.18	2.37	2.36	2.12	281.0	1.44	1.47	1.49
328.0	2.34	2.30	2.27	2.51	2.51	2.59	298.0	1.42	1.44	1.46
345.0	2.43	2.39	2.34	2.85	2.88	3.35	315.0	1.40	1.41	1.43
362.0	2.46	2.41	2.36	3.00	2.99	3.40	332.0	1.43	1.44	1.45
379.0	2.54	2.48	2.43	2.72	2.72	2.45	349.0	1.47	1.47	1.48
396.0	2.65	2.57	2.51	2.47	2.47	2.20	366.0	1.52	1.52	1.52
413.0	2.64	2.57	2.50	2.60	2.60	2.73	383.0	1.59	1.59	1.60
430.0	2.68	2.60	2.52	3.04	3.07	3.72	400.0	1.67	1.66	1.66
436.3	2.73	2.64	2.56	3.18	3.22	3.94	406.3	1.70	1.69	1.69
442.5	2.77	2.68	2.60	3.26	3.27	3.91	412.5	1.73	1.71	1.71
448.8	2.80	2.71	2.63	3.24	3.24	3.57	418.8	1.76	1.75	1.74
455.0	2.81	2.72	2.64	3.14	3.14	3.08	425.0	1.80	1.78	1.77
461.3	2.80	2.70	2.62	2.98	2.98	2.70	431.3	1.83	1.81	1.80
467.5	2.81	2.71	2.63	2.81	2.81	2.49	437.5	1.89	1.87	1.86
473.8	2.83	2.73	2.65	2.67	2.67	2.37	443.8	1.94	1.92	1.90
480.0	2.86	2.76	2.67	2.57	2.57	2.31	450.0	1.99	1.97	1.95