

Frequency Mixer (Upconverter)

LAVI-U252VH+

Typical Performance Data

IF INPUT (MHz)	LO INPUT (MHz)	RF OUTPUT (MHz)	CONVERSION LOSS (dB)			LO-IF ISOLATION (dB)			LO-RF ISOLATION (dB)			IP3 INPUT (dBm)		
			@LO (dBm)			@LO (dBm)			@LO (dBm)			@LO (dBm)		
			+18	+21	+24	+18	+21	+24	+18	+21	+24	+18	+21	+24
300.0	1600.0	1300.0	7.94	7.70	7.54	55.75	54.86	57.52	59.52	59.31	58.14	28.04	30.71	33.47
300.0	1650.0	1350.0	7.69	7.50	7.31	54.94	54.07	56.56	51.53	50.89	50.22	28.76	31.33	34.24
300.0	1700.0	1400.0	7.73	7.50	7.27	56.78	55.62	57.46	50.85	50.58	50.03	27.18	29.89	32.64
300.0	1750.0	1450.0	7.48	7.24	7.03	55.09	53.93	55.51	49.19	48.87	48.41	27.18	30.20	33.17
300.0	1800.0	1500.0	7.51	7.23	6.98	56.47	55.10	56.83	50.17	49.97	49.55	26.12	29.03	32.25
300.0	1850.0	1550.0	7.33	7.05	6.84	55.12	53.96	55.60	49.24	48.85	48.37	26.92	30.35	33.75
300.0	1900.0	1600.0	7.41	7.10	6.88	56.56	55.08	56.96	50.25	50.06	49.50	26.08	29.42	32.90
300.0	1950.0	1650.0	7.34	7.05	6.86	55.58	54.08	55.47	49.45	49.09	48.44	27.23	30.71	34.44
300.0	2000.0	1700.0	7.46	7.19	6.97	57.67	55.85	57.17	50.17	49.95	49.53	26.53	30.00	33.63
300.0	2050.0	1750.0	7.38	7.13	6.93	57.75	55.63	56.59	48.43	48.31	48.01	27.48	30.90	34.76
300.0	2100.0	1800.0	7.38	7.14	6.93	58.78	57.37	58.14	47.73	47.58	47.53	26.53	29.99	33.81
300.0	2150.0	1850.0	7.31	7.07	6.88	59.86	56.86	57.02	45.41	45.18	45.07	27.00	30.44	34.31
300.0	2200.0	1900.0	7.33	7.06	6.88	59.50	57.94	56.57	44.46	44.09	43.96	26.50	29.92	33.60
300.0	2250.0	1950.0	7.32	7.09	6.87	58.77	57.13	55.69	42.78	42.31	42.15	26.87	30.34	34.40
300.0	2300.0	2000.0	7.35	7.14	6.94	59.12	57.28	55.93	41.59	41.15	40.92	27.07	30.36	34.30
300.0	2350.0	2050.0	7.44	7.23	7.04	59.16	57.17	56.20	40.53	40.01	39.75	27.30	30.77	34.65
300.0	2400.0	2100.0	7.51	7.33	7.16	56.89	55.34	54.78	39.31	38.74	38.38	27.88	31.47	35.28
300.0	2450.0	2150.0	7.65	7.44	7.29	54.04	53.11	52.76	38.88	38.21	37.84	27.68	31.32	35.03
300.0	2500.0	2200.0	7.79	7.62	7.47	50.33	49.33	48.99	37.64	36.92	36.46	28.60	31.99	35.74
300.0	2550.0	2250.0	8.02	7.80	7.66	48.28	47.43	47.10	38.08	37.23	36.74	28.22	31.81	35.53
300.0	2600.0	2300.0	8.11	7.95	7.81	45.48	44.55	44.17	37.53	36.63	35.98	29.12	32.82	37.02
300.0	2650.0	2350.0	8.33	8.09	7.98	44.87	43.91	43.67	38.99	38.00	37.03	28.89	32.48	36.73
300.0	2700.0	2400.0	8.27	8.14	8.04	43.31	42.26	42.00	38.86	38.18	36.60	29.77	33.63	38.09
300.0	2750.0	2450.0	8.29	8.08	7.96	43.84	42.86	42.74	40.76	40.66	38.65	28.67	32.28	36.49
300.0	2800.0	2500.0	8.21	7.96	7.83	42.38	41.67	41.56	41.00	40.72	39.55	28.98	32.62	36.74
300.0	2850.0	2550.0	8.17	7.98	7.80	42.87	42.74	42.69	44.22	42.54	41.83	27.46	31.08	35.03
300.0	2900.0	2600.0	8.05	7.85	7.68	41.55	41.92	41.81	42.70	40.97	40.32	27.68	31.39	35.60
300.0	2950.0	2650.0	8.06	7.87	7.74	43.22	43.48	43.41	42.60	41.35	40.68	25.95	29.58	33.61
300.0	3000.0	2700.0	8.06	7.87	7.74	43.44	43.47	43.46	40.38	39.48	38.80	26.08	29.85	34.42



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Typical Performance Data

IF INPUT (MHz)	LO INPUT (MHz)	IF VSWR (:1)			LO INPUT (MHz)	LO VSWR (:1)			RF OUTPUT (MHz)	RF VSWR (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+18	+21	+24		+18	+21	+24		+18	+21	+24
1.0	1600.0	1.73	1.83	1.93	1600.0	4.27	4.35	4.55	1300.0	1.63	1.56	1.51
3.0	1650.0	1.69	1.79	1.89	1650.0	2.68	2.68	2.65	1350.0	1.87	1.79	1.74
5.0	1700.0	1.70	1.79	1.89	1700.0	3.59	3.62	3.71	1400.0	2.01	1.93	1.87
8.0	1750.0	1.69	1.79	1.89	1750.0	2.92	2.93	2.95	1450.0	2.07	2.01	1.94
10.0	1800.0	1.70	1.80	1.89	1800.0	3.18	3.15	3.17	1500.0	2.08	2.01	1.93
20.0	1850.0	1.70	1.80	1.89	1850.0	3.54	3.51	3.60	1550.0	2.03	1.95	1.87
50.0	1900.0	1.68	1.77	1.86	1900.0	3.06	3.04	3.02	1600.0	1.91	1.84	1.77
100.0	1950.0	1.65	1.74	1.83	1950.0	3.95	3.95	4.10	1650.0	1.79	1.72	1.66
200.0	2000.0	1.58	1.65	1.72	2000.0	3.26	3.24	3.30	1700.0	1.68	1.62	1.56
300.0	2050.0	1.59	1.64	1.68	2050.0	4.11	4.07	4.19	1750.0	1.55	1.49	1.45
400.0	2100.0	1.67	1.68	1.69	2100.0	3.71	3.72	3.80	1800.0	1.43	1.38	1.34
500.0	2150.0	1.80	1.77	1.76	2150.0	4.18	4.13	4.21	1850.0	1.32	1.27	1.23
600.0	2200.0	1.92	1.87	1.82	2200.0	4.18	4.12	4.17	1900.0	1.24	1.19	1.15
700.0	2250.0	2.01	1.93	1.86	2250.0	4.31	4.26	4.31	1950.0	1.16	1.11	1.08
800.0	2300.0	2.11	2.03	1.93	2300.0	4.41	4.37	4.41	2000.0	1.13	1.09	1.08
850.0	2350.0	2.09	2.00	1.92	2350.0	4.33	4.28	4.38	2050.0	1.13	1.14	1.16
900.0	2400.0	2.15	2.04	1.95	2400.0	4.96	4.92	5.09	2100.0	1.19	1.21	1.24
950.0	2450.0	2.08	1.98	1.90	2450.0	4.24	4.21	4.42	2150.0	1.28	1.31	1.35
1000.0	2500.0	2.07	1.96	1.88	2500.0	5.75	5.85	5.97	2200.0	1.35	1.40	1.44
1050.0	2550.0	1.95	1.87	1.79	2550.0	4.41	4.37	4.31	2250.0	1.46	1.50	1.56
1100.0	2600.0	1.92	1.84	1.77	2600.0	5.52	5.54	5.52	2300.0	1.51	1.57	1.62
1150.0	2650.0	1.85	1.78	1.71	2650.0	4.72	4.63	4.55	2350.0	1.58	1.64	1.69
1200.0	2700.0	1.83	1.77	1.71	2700.0	4.52	4.41	4.43	2400.0	1.56	1.62	1.68
1250.0	2750.0	1.76	1.70	1.65	2750.0	5.47	5.42	5.46	2450.0	1.54	1.60	1.65
1300.0	2800.0	1.69	1.65	1.62	2800.0	3.77	3.70	3.71	2500.0	1.46	1.52	1.57
1350.0	2850.0	1.63	1.61	1.61	2850.0	6.19	6.21	6.32	2550.0	1.43	1.49	1.54
1400.0	2900.0	1.58	1.59	1.60	2900.0	4.03	3.96	3.94	2600.0	1.39	1.45	1.51
1450.0	2950.0	1.58	1.62	1.66	2950.0	5.63	5.61	5.74	2650.0	1.41	1.48	1.54
1500.0	3000.0	1.61	1.67	1.73	3000.0	4.39	4.36	4.35	2700.0	1.43	1.49	1.57



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