

Frequency Mixer

TFM-3H+

Typical Performance Data

RF (MHz)	LO (MHz)	CONVERSION LOSS (dB)			LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
		@LO (dBm)				@LO (dBm)			@LO (dBm)		
		+14	+17	+20		+14	+17	+20	+14	+17	+20
0.1	30.1	5.71	5.43	5.26	0.1	64.78	66.42	66.35	68.59	66.28	63.03
5.0	35.0	5.24	4.99	4.92	5.0	60.18	61.64	63.09	64.99	64.07	62.71
10.0	40.0	5.17	4.91	4.78	10.0	59.08	60.33	61.40	61.56	61.62	60.74
20.0	50.0	5.21	4.94	4.81	20.0	60.69	61.22	61.67	60.52	60.51	59.92
34.6	64.6	5.16	4.92	4.80	34.6	56.53	57.23	57.15	55.92	56.07	55.64
50.0	80.0	5.17	4.92	4.80	50.0	53.58	53.98	54.04	52.40	52.73	52.09
60.4	90.4	5.16	4.92	4.80	60.4	51.84	52.33	52.03	50.56	50.92	49.90
69.0	99.0	5.11	4.87	4.77	69.0	50.53	51.05	50.49	49.22	49.22	48.53
86.3	56.3	5.03	4.80	4.72	86.3	48.43	48.52	47.80	46.65	46.16	46.07
100.0	70.0	5.00	4.79	4.68	100.0	46.90	46.72	46.00	44.62	44.44	44.60
103.5	73.5	5.18	4.84	4.72	103.5	46.59	46.41	45.79	44.11	44.07	44.42
129.4	99.4	5.17	4.89	4.79	129.4	43.56	43.29	43.30	40.81	41.27	42.21
146.6	116.6	5.18	4.91	4.82	146.6	41.98	41.82	41.73	39.42	40.17	40.89
155.2	125.2	5.13	4.90	4.83	155.2	41.30	41.17	41.39	38.71	39.68	40.93
172.4	142.4	5.21	5.00	4.93	172.4	40.29	39.95	39.91	37.82	38.86	39.95
189.7	159.7	5.27	5.08	5.03	189.7	39.44	39.60	39.03	36.95	38.24	39.21
224.2	194.2	5.40	5.21	5.10	224.2	36.93	37.56	37.61	35.74	36.93	38.22
232.8	202.8	5.45	5.26	5.14	232.8	36.40	36.71	36.55	35.59	36.82	37.49
241.4	211.4	5.44	5.24	5.13	241.4	36.06	35.87	35.81	35.28	36.43	37.36
250.0	220.0	5.45	5.23	5.11	250.0	35.77	35.46	35.46	34.98	36.00	37.11

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RF/LO (MHz)	RF VSWR (:1)			LO VSWR (:1)			IF (MHz)	IF VSWR (:1)			LO/RF (MHz)	max. DC output (mV)	DC Offset (mV)
	@LO (dBm)			@LO (dBm)				@LO (dBm)			@LO (dBm)		
	+14	+17	+20	+14	+17	+20		+14	+17	+20	+17		
5.0	1.66	1.40	1.24	1.32	1.51	2.55	5.0	1.78	1.56	1.47	0.10	-950.4	0.18
26.6	1.66	1.40	1.25	1.21	1.46	2.33	26.6	1.77	1.55	1.46	25.95	-979.2	0.49
33.8	1.64	1.38	1.24	1.14	1.52	2.43	33.8	1.75	1.55	1.46	34.57	-971.3	0.48
41.0	1.64	1.39	1.24	1.12	1.51	2.39	41.0	1.75	1.54	1.46	43.19	-970.4	0.47
50.0	1.64	1.39	1.24	1.15	1.52	2.41	50.0	1.77	1.55	1.46	51.80	-975.4	0.49
69.9	1.66	1.39	1.23	1.21	1.48	2.46	69.9	1.81	1.59	1.50	69.04	-988.0	0.42
77.1	1.65	1.38	1.23	1.24	1.45	2.43	77.1	1.82	1.60	1.50	77.66	-992.8	0.37
84.3	1.65	1.38	1.22	1.24	1.47	2.38	84.3	1.83	1.61	1.51	86.27	-1001.9	0.26
98.7	1.60	1.35	1.20	1.22	1.43	2.21	98.7	1.81	1.60	1.50	94.89	-1013.6	0.26
100.0	1.60	1.35	1.20	1.23	1.41	2.22	100.0	1.82	1.60	1.50	100.00	-1026.6	0.14
113.1	1.58	1.33	1.19	1.22	1.44	2.24	113.1	1.83	1.61	1.51	112.12	-991.1	0.10
127.5	1.56	1.31	1.17	1.23	1.45	2.29	127.5	1.84	1.63	1.53	129.36	-996.8	-0.04
149.1	1.56	1.30	1.16	1.23	1.50	2.37	149.1	1.93	1.70	1.59	146.59	-981.4	0.19
163.5	1.53	1.29	1.15	1.23	1.46	2.27	163.5	1.95	1.72	1.62	163.83	-994.9	0.45
185.2	1.46	1.24	1.11	1.23	1.46	2.15	185.2	1.97	1.74	1.64	181.06	-993.7	0.36
199.6	1.44	1.22	1.10	1.25	1.45	2.18	199.6	2.01	1.77	1.68	198.30	-1000.7	0.65
206.8	1.43	1.21	1.09	1.28	1.47	2.24	206.8	2.04	1.80	1.69	206.91	-1008.6	0.66
228.4	1.40	1.18	1.06	1.29	1.52	2.28	228.4	2.16	1.91	1.79	224.15	-1013.1	1.34
242.8	1.37	1.16	1.04	1.28	1.53	2.19	242.8	2.22	1.94	1.82	241.38	-996.1	2.09
250.0	1.34	1.14	1.03	1.27	1.52	2.22	250.0	2.22	1.95	1.83	250.00	-979.2	2.54

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