

Frequency Mixer

TFM-3MH+

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)		
		+10	+13	+16		+10	+13	+16	+10	+13	+16
0.1	30.1	5.47	5.15	4.95	0.1	70.00	73.00	76.00	59.41	60.91	63.34
1.0	31.0	4.85	4.57	4.42	1.0	70.00	73.00	76.00	59.03	60.66	63.06
5.0	35.0	4.92	4.68	4.54	5.0	70.00	73.00	76.00	58.89	60.53	62.89
10.0	40.0	4.99	4.73	4.56	10.0	70.00	73.00	71.81	58.55	60.07	62.11
20.0	50.0	5.09	4.80	4.61	20.0	65.25	65.05	64.42	57.10	58.37	59.62
33.4	63.4	4.93	4.67	4.53	33.4	59.88	59.52	59.13	54.59	55.39	56.16
50.0	80.0	4.91	4.68	4.57	50.0	55.23	55.49	53.26	51.75	52.20	51.48
58.4	88.4	4.84	4.65	4.57	58.4	53.68	53.27	50.86	50.45	50.21	49.34
66.7	96.7	4.87	4.68	4.55	66.7	52.40	50.90	49.02	49.03	48.39	47.78
83.4	53.4	4.90	4.66	4.55	83.4	48.74	46.98	45.89	45.72	45.26	44.91
100.1	70.1	4.74	4.54	4.48	100.1	45.35	44.09	43.84	43.05	42.57	42.68
116.7	86.7	4.80	4.62	4.56	116.7	42.52	41.59	41.71	40.83	40.51	40.95
133.4	103.4	4.86	4.69	4.63	133.4	40.42	40.36	40.85	38.94	38.94	39.71
150.0	120.0	4.90	4.74	4.69	150.0	38.88	38.78	39.39	37.73	37.88	38.66
166.7	136.7	4.95	4.82	4.76	166.7	36.88	37.43	38.44	36.06	36.81	38.02
183.4	153.4	5.03	4.90	4.83	183.4	36.07	36.56	37.14	35.07	35.51	36.27
200.0	170.0	5.04	4.89	4.80	200.0	35.72	36.59	37.11	34.90	35.86	36.73
216.7	186.7	5.03	4.88	4.78	216.7	34.55	35.77	36.72	33.92	35.35	36.86
233.3	203.3	4.98	4.84	4.77	233.3	32.96	33.97	35.32	32.41	33.58	35.36
250.0	220.0	5.08	4.93	4.84	250.0	32.36	33.05	34.27	32.08	32.71	33.84

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IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED RoHS compliant
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



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Typical Performance Data

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)		
	+10	+13	+16	+10	+13	+16		+10	+13	+16	+13		
5.0	1.51	1.33	1.21	1.05	1.72	2.63	5.0	1.69	1.54	1.45	0.10	-549.8	0.00
10.0	1.52	1.33	1.22	1.04	1.65	2.54	10.0	1.69	1.54	1.45	0.50	-571.9	0.01
20.0	1.51	1.33	1.21	1.06	1.74	2.61	20.0	1.68	1.54	1.44	2.00	-572.6	0.02
28.0	1.50	1.32	1.21	1.06	1.73	2.56	28.0	1.68	1.53	1.44	10.00	-572.0	0.03
35.6	1.50	1.32	1.21	1.04	1.68	2.49	35.6	1.69	1.54	1.45	25.95	-567.7	0.03
50.0	1.50	1.32	1.21	1.02	1.67	2.47	50.0	1.69	1.55	1.46	34.57	-565.3	0.03
58.6	1.49	1.32	1.21	1.03	1.64	2.43	58.6	1.69	1.55	1.46	50.00	-562.9	0.01
73.9	1.48	1.31	1.20	1.03	1.59	2.34	73.9	1.71	1.57	1.47	60.42	-567.6	-0.02
96.9	1.46	1.29	1.19	1.03	1.64	2.34	96.9	1.72	1.58	1.48	77.66	-573.0	-0.01
100.0	1.46	1.29	1.19	1.02	1.62	2.36	100.0	1.73	1.59	1.49	94.89	-579.4	-0.07
119.8	1.43	1.26	1.17	1.04	1.64	2.34	119.8	1.75	1.61	1.51	100.00	-581.3	-0.02
135.2	1.41	1.25	1.15	1.06	1.63	2.28	135.2	1.78	1.64	1.53	112.12	-583.1	-0.20
150.5	1.39	1.23	1.14	1.08	1.64	2.30	150.5	1.81	1.65	1.56	129.36	-580.5	-0.15
165.8	1.36	1.21	1.12	1.10	1.64	2.30	165.8	1.84	1.69	1.58	146.59	-575.9	-0.06
181.1	1.34	1.19	1.10	1.11	1.63	2.26	181.1	1.87	1.73	1.63	163.83	-576.5	0.00
200.0	1.31	1.16	1.07	1.12	1.64	2.26	200.0	1.93	1.78	1.67	181.06	-577.4	-0.09
211.7	1.29	1.14	1.05	1.15	1.65	2.27	211.7	1.94	1.80	1.70	200.00	-585.9	0.68
227.0	1.26	1.12	1.03	1.19	1.65	2.25	227.0	2.02	1.85	1.74	206.91	-586.9	0.89
242.4	1.23	1.09	1.01	1.19	1.67	2.26	242.4	2.08	1.89	1.79	224.15	-584.3	1.07
250.0	1.22	1.08	1.01	1.19	1.68	2.28	250.0	2.12	1.93	1.82	250.00	-570.1	0.49

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