

Frequency Mixer

TFM-12+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=70MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+1dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+4	+7	+10			+4	+7	+10			+4	+7	+10
80.1	10.1	5.99	5.75	5.64	80.1	10.1	16.64	17.70	18.36	80.1	10.1	1.36	1.07	0.92
140.6	70.6	6.00	5.84	5.73	140.6	70.6	10.26	9.63	9.67	140.6	70.6	1.60	1.27	1.03
201.0	131.0	6.63	6.28	6.03	201.0	131.0	7.20	8.19	10.32	201.0	131.0	1.43	1.20	0.97
261.5	191.5	6.95	6.50	6.16	261.5	191.5	6.95	9.23	12.38	261.5	191.5	1.57	1.35	1.21
322.0	252.0	7.48	6.89	6.47	322.0	252.0	6.95	9.88	12.91	322.0	252.0	1.30	1.23	1.10
382.4	312.4	7.72	7.00	6.56	382.4	312.4	8.12	10.73	12.04	382.4	312.4	1.43	1.32	1.18
442.9	372.9	7.68	7.02	6.62	442.9	372.9	7.75	9.41	10.75	442.9	372.9	1.45	1.36	1.17
503.4	433.4	7.91	7.21	6.79	503.4	433.4	7.24	8.76	10.02	503.4	433.4	1.38	1.27	1.11
563.8	493.8	7.82	7.18	6.81	563.8	493.8	7.47	9.17	10.53	563.8	493.8	1.39	1.23	1.08
624.3	554.3	7.85	7.27	6.92	624.3	554.3	7.09	8.94	10.46	624.3	554.3	1.29	1.14	0.97
684.8	614.8	8.02	7.47	7.15	684.8	614.8	6.51	8.31	9.97	684.8	614.8	1.17	1.00	0.85
745.2	675.2	7.83	7.40	7.14	745.2	675.2	6.21	7.68	9.07	745.2	675.2	1.21	1.01	0.84
805.7	735.7	7.67	7.28	7.04	805.7	735.7	6.46	8.01	9.32	805.7	735.7	1.20	0.99	0.82
866.1	796.1	7.57	7.19	6.98	866.1	796.1	6.70	8.04	9.24	866.1	796.1	1.11	0.92	0.76
926.6	856.6	7.43	7.08	6.89	926.6	856.6	6.93	8.02	9.16	926.6	856.6	1.04	0.85	0.70
987.1	917.1	7.29	6.95	6.78	987.1	917.1	7.84	8.59	9.55	987.1	917.1	0.92	0.74	0.62
1067.7	997.7	7.23	6.86	6.69	1067.7	997.7	8.90	9.59	10.35	1067.7	997.7	0.74	0.59	0.48
1128.2	1058.2	7.27	6.90	6.72	1128.2	1058.2	9.58	10.66	11.50	1128.2	1058.2	0.68	0.50	0.41
1208.8	1138.8	7.41	7.03	6.83	1208.8	1138.8	9.87	10.91	11.80	1208.8	1138.8	0.66	0.50	0.38
1269.2	1199.2	7.46	7.06	6.86	1269.2	1199.2	10.10	11.37	12.53	1269.2	1199.2	0.72	0.54	0.44
1349.9	1279.9	7.53	7.12	6.90	1349.9	1279.9	9.63	10.71	11.85	1349.9	1279.9	0.77	0.59	0.46
1410.3	1340.3	7.60	7.20	6.98	1410.3	1340.3	9.62	10.64	11.73	1410.3	1340.3	0.76	0.58	0.46
1491.0	1421.0	7.64	7.21	6.99	1491.0	1421.0	8.66	9.70	10.83	1491.0	1421.0	0.78	0.60	0.48
1551.4	1481.4	7.46	7.05	6.82	1551.4	1481.4	8.26	9.03	10.19	1551.4	1481.4	0.91	0.71	0.55
1632.0	1562.0	7.29	6.91	6.71	1632.0	1562.0	8.06	8.72	9.58	1632.0	1562.0	1.00	0.79	0.63
1692.5	1622.5	7.21	6.86	6.67	1692.5	1622.5	8.47	9.10	10.04	1692.5	1622.5	1.03	0.82	0.66
1773.1	1703.1	7.18	6.83	6.67	1773.1	1703.1	8.56	9.26	10.21	1773.1	1703.1	1.03	0.79	0.64
1833.6	1763.6	7.21	6.87	6.71	1833.6	1763.6	8.78	9.61	10.48	1833.6	1763.6	0.99	0.74	0.60
1914.2	1844.2	7.28	6.95	6.80	1914.2	1844.2	8.99	10.00	10.76	1914.2	1844.2	1.02	0.75	0.59
1974.7	1904.7	7.37	7.02	6.85	1974.7	1904.7	9.17	10.28	11.08	1974.7	1904.7	0.98	0.71	0.56
2055.3	1985.3	7.56	7.20	7.03	2055.3	1985.3	9.21	10.32	11.42	2055.3	1985.3	0.93	0.66	0.51
2115.8	2045.8	7.82	7.44	7.26	2115.8	2045.8	9.55	10.47	11.46	2115.8	2045.8	0.87	0.60	0.46
2196.4	2126.4	8.12	7.71	7.53	2196.4	2126.4	10.02	11.53	12.22	2196.4	2126.4	0.86	0.58	0.44
2256.8	2186.8	8.27	7.87	7.68	2256.8	2186.8	10.47	12.19	13.08	2256.8	2186.8	0.85	0.56	0.43
2337.5	2267.5	8.60	8.12	7.92	2337.5	2267.5	10.77	12.69	14.00	2337.5	2267.5	0.77	0.50	0.38
2397.9	2327.9	8.99	8.47	8.22	2397.9	2327.9	11.31	13.36	15.20	2397.9	2327.9	0.71	0.43	0.33
2478.5	2408.5	9.43	8.84	8.57	2478.5	2408.5	11.63	13.08	14.43	2478.5	2408.5	0.70	0.43	0.32
2539.0	2469.0	9.67	9.05	8.80	2539.0	2469.0	12.42	13.78	14.96	2539.0	2469.0	0.68	0.40	0.30
2619.6	2549.6	10.09	9.39	9.11	2619.6	2549.6	13.16	14.66	15.64	2619.6	2549.6	0.60	0.36	0.28
2680.1	2610.1	10.60	9.76	9.44	2680.1	2610.1	13.74	14.93	15.88	2680.1	2610.1	0.56	0.35	0.28

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1025MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=789.9MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1260.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
635.0	390.0	9.74	10.1	800.0	7.31	730.1	530.0	10.01
597.1	427.9	9.48	30.1	820.0	7.14	711.6	548.5	9.73
559.2	465.8	9.25	50.1	840.0	7.14	693.2	566.9	9.55
521.4	503.6	8.89	70.1	860.0	7.21	674.7	585.4	9.50
483.5	541.5	8.73	90.1	880.0	7.20	656.3	603.8	9.31
445.6	579.4	8.61	110.1	900.0	7.27	637.8	622.3	9.17
407.7	617.3	8.35	130.1	920.0	7.27	619.3	640.8	9.13
369.8	655.2	8.08	150.1	940.0	7.32	600.9	659.2	8.94
332.0	693.0	7.83	170.1	960.0	7.35	582.4	677.7	8.80
294.1	730.9	7.58	190.1	980.0	7.37	563.9	696.2	8.75
256.2	768.8	7.39	210.1	1000.0	7.41	545.5	714.6	8.62
218.3	806.7	7.31	230.1	1020.0	7.41	527.0	733.1	8.47
180.5	844.5	7.19	250.1	1040.0	7.47	508.6	751.5	8.36
142.6	882.4	7.07	270.1	1060.0	7.48	490.1	770.0	8.27
104.7	920.3	6.99	290.1	1080.0	7.56	471.6	788.5	8.14
66.8	958.2	6.88	310.1	1100.0	7.60	453.2	806.9	8.05
28.9	996.1	6.74	330.1	1120.0	7.66	434.7	825.4	7.96
10.0	1035.0	6.98	350.1	1140.0	7.75	416.3	843.8	7.86
52.1	1077.1	6.79	370.1	1160.0	7.82	397.8	862.3	7.82
73.2	1098.2	6.83	390.1	1180.0	7.93	379.3	880.8	7.79
115.3	1140.3	6.93	410.1	1200.0	8.00	360.9	899.2	7.71
136.4	1161.4	6.99	430.1	1220.0	8.06	342.4	917.7	7.66
178.5	1203.5	7.13	450.1	1240.0	8.21	323.9	936.2	7.61
199.5	1224.5	7.20	470.1	1260.0	8.28	305.5	954.6	7.57
241.7	1266.7	7.39	490.1	1280.0	8.42	287.0	973.1	7.51
262.7	1287.7	7.52	510.1	1300.0	8.48	268.6	991.5	7.47
304.8	1329.8	7.77	530.1	1320.0	8.64	250.1	1010.0	7.44
325.9	1350.9	7.87	550.1	1340.0	8.72	231.6	1028.5	7.39
368.0	1393.0	8.11	570.1	1360.0	8.82	213.2	1046.9	7.35
389.1	1414.1	8.26	590.1	1380.0	8.95	194.7	1065.4	7.34
431.2	1456.2	8.48	610.1	1400.0	9.02	176.3	1083.8	7.30
452.3	1477.3	8.60	630.1	1420.0	9.21	157.8	1102.3	7.24
494.4	1519.4	8.83	650.1	1440.0	9.28	139.3	1120.8	7.19
515.5	1540.5	9.00	670.1	1460.0	9.46	120.9	1139.2	7.14
557.6	1582.6	9.20	690.1	1480.0	9.56	102.4	1157.7	7.08
578.6	1603.6	9.26	710.1	1500.0	9.73	83.9	1176.2	7.06
620.8	1645.8	9.52	730.1	1520.0	9.95	65.5	1194.6	7.02
641.8	1666.8	9.65	750.1	1540.0	10.08	47.0	1213.1	6.91
683.9	1708.9	9.91	770.1	1560.0	10.27	28.6	1231.5	6.88
705.0	1730.0	10.08	790.1	1580.0	10.36	10.1	1250.0	7.08

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LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+4	+7	+10	+4	+7	+10
10.1	61.00	63.91	67.56	56.55	56.92	57.41
70.6	53.74	56.44	58.52	46.68	47.17	47.94
131.0	48.66	51.47	54.17	41.71	42.45	43.12
191.5	44.83	47.30	49.94	38.54	39.23	39.70
252.0	42.75	45.32	48.05	36.16	36.69	37.11
312.4	40.52	43.10	45.77	34.43	34.94	35.33
372.9	39.05	41.63	44.38	32.90	33.44	33.86
433.4	38.03	40.55	43.19	31.70	32.26	32.70
493.8	37.11	39.71	42.43	30.62	31.12	31.62
554.3	36.51	39.11	41.79	29.80	30.29	30.71
614.8	36.19	38.80	41.42	29.07	29.57	29.96
675.2	35.61	38.23	40.87	28.36	28.83	29.22
735.7	34.86	37.29	39.81	27.80	28.22	28.57
796.1	34.49	36.88	39.28	27.27	27.64	27.91
856.6	34.14	36.55	38.95	26.93	27.18	27.37
917.1	33.99	36.61	39.15	26.45	26.63	26.79
997.7	33.79	36.59	39.48	25.73	25.81	25.98
1058.2	33.46	36.19	38.97	25.28	25.33	25.36
1138.8	33.08	35.63	37.90	24.74	24.79	24.81
1199.2	32.76	35.09	37.12	24.31	24.32	24.41
1279.9	32.23	34.04	35.18	23.83	23.84	23.82
1340.3	31.39	32.66	33.13	23.44	23.61	23.61
1421.0	30.39	30.89	30.84	22.61	22.81	23.02
1481.4	28.15	29.49	30.27	24.42	24.82	24.98
1562.0	26.73	28.55	30.18	32.45	33.50	34.32
1622.5	27.07	29.24	31.26	32.21	33.48	34.47
1703.1	27.53	30.30	33.18	30.14	31.55	32.84
1763.6	27.58	30.64	34.00	29.31	31.04	32.68
1844.2	27.71	30.93	34.61	28.40	30.56	32.75
1904.7	27.75	31.12	35.00	27.55	29.84	32.22
1985.3	27.80	31.32	35.40	25.91	28.14	30.32
2045.8	27.76	31.40	35.58	24.47	26.50	28.37
2126.4	27.94	31.83	36.11	22.74	24.46	26.08
2186.8	28.31	32.40	36.87	21.75	23.38	24.86
2267.5	28.61	32.96	37.60	20.83	22.31	23.64
2327.9	28.48	32.77	37.15	20.17	21.62	22.88
2408.5	28.47	32.68	36.84	19.66	21.06	22.20
2469.0	28.59	32.84	36.90	19.49	20.77	21.82
2549.6	28.22	32.19	35.90	19.10	20.36	21.39
2610.1	27.62	31.19	34.58	18.72	19.91	20.85

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
80.1	10.1	22.95	23.14	23.15
140.6	70.6	22.47	22.85	23.52
201.0	131.0	23.56	23.57	23.48
261.5	191.5	23.65	23.90	24.05
322.0	252.0	24.14	24.34	24.74
382.4	312.4	24.99	25.36	25.65
442.9	372.9	26.08	26.37	26.48
503.4	433.4	27.16	27.45	27.54
563.8	493.8	28.15	28.41	28.40
624.3	554.3	28.77	28.79	28.66
684.8	614.8	30.07	29.88	29.76
745.2	675.2	31.35	31.23	31.15
805.7	735.7	31.86	31.57	31.49
866.1	796.1	31.25	30.99	30.71
926.6	856.6	30.41	29.87	29.52
987.1	917.1	28.92	28.31	27.90
1067.7	997.7	27.04	26.30	25.91
1128.2	1058.2	26.32	25.62	25.19
1208.8	1138.8	25.07	24.62	24.33
1269.2	1199.2	23.65	23.37	23.22
1349.9	1279.9	21.24	21.27	21.14
1410.3	1340.3	19.92	19.96	19.92
1491.0	1421.0	22.33	22.14	22.12
1551.4	1481.4	28.38	28.65	28.88
1632.0	1562.0	25.89	26.33	26.73
1692.5	1622.5	24.13	24.64	25.08
1773.1	1703.1	23.27	23.85	24.35
1833.6	1763.6	23.29	24.09	24.68
1914.2	1844.2	23.87	24.80	25.59
1974.7	1904.7	24.82	25.85	26.84
2055.3	1985.3	26.79	27.69	28.63
2115.8	2045.8	28.31	29.23	29.88
2196.4	2126.4	29.33	29.67	29.71
2256.8	2186.8	29.04	28.79	28.57
2337.5	2267.5	28.37	27.76	27.37
2397.9	2327.9	28.25	27.66	27.29
2478.5	2408.5	28.31	27.79	27.45
2539.0	2469.0	28.81	28.14	27.75
2619.6	2549.6	29.72	28.75	28.15
2680.1	2610.1	30.24	28.71	27.82



Frequency Mixer

TFM-12+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1250MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+4	+7	+10		+4	+7	+10		+4	+7	+10
80.1	10.1	1.21	1.11	1.05	10.1	1.62	2.36	3.33	10.0	1.27	1.46	1.61
140.6	70.6	1.28	1.20	1.14	70.6	1.71	2.46	3.42	30.4	1.30	1.50	1.66
201.0	131.0	1.48	1.40	1.34	131.0	1.77	2.54	3.54	50.9	1.29	1.48	1.63
261.5	191.5	1.75	1.66	1.59	191.5	1.69	2.35	3.21	71.3	1.28	1.46	1.60
322.0	252.0	2.14	2.02	1.92	252.0	1.71	2.36	3.22	91.7	1.34	1.53	1.68
382.4	312.4	2.57	2.39	2.26	312.4	1.70	2.30	3.11	112.1	1.37	1.56	1.71
442.9	372.9	2.96	2.75	2.61	372.9	1.65	2.18	2.92	132.6	1.36	1.53	1.67
503.4	433.4	3.31	3.06	2.89	433.4	1.65	2.15	2.87	153.0	1.41	1.58	1.71
563.8	493.8	3.54	3.27	3.09	493.8	1.65	2.08	2.75	173.4	1.48	1.66	1.81
624.3	554.3	3.78	3.53	3.35	554.3	1.62	1.99	2.59	193.8	1.48	1.66	1.80
684.8	614.8	3.90	3.68	3.52	614.8	1.62	1.94	2.51	214.3	1.50	1.67	1.80
745.2	675.2	3.81	3.64	3.53	675.2	1.61	1.85	2.37	234.7	1.58	1.76	1.90
805.7	735.7	3.64	3.48	3.38	735.7	1.60	1.78	2.25	255.1	1.64	1.83	1.97
866.1	796.1	3.42	3.27	3.18	796.1	1.58	1.72	2.16	275.5	1.65	1.83	1.97
926.6	856.6	3.20	3.05	2.96	856.6	1.56	1.64	2.04	296.0	1.70	1.88	2.01
987.1	917.1	2.95	2.78	2.69	917.1	1.50	1.55	1.94	316.4	1.77	1.96	2.10
1067.7	997.7	2.68	2.47	2.36	997.7	1.43	1.45	1.83	336.8	1.79	1.98	2.12
1128.2	1058.2	2.60	2.38	2.24	1058.2	1.38	1.38	1.76	357.2	1.83	2.01	2.15
1208.8	1138.8	2.55	2.33	2.18	1138.8	1.32	1.32	1.71	377.7	1.90	2.09	2.23
1269.2	1199.2	2.49	2.28	2.15	1199.2	1.27	1.30	1.70	398.1	1.94	2.13	2.28
1349.9	1279.9	2.38	2.19	2.06	1279.9	1.21	1.29	1.70	418.5	1.94	2.12	2.26
1410.3	1340.3	2.27	2.10	1.97	1340.3	1.16	1.31	1.73	438.9	2.01	2.20	2.34
1491.0	1421.0	2.23	2.05	1.94	1421.0	1.11	1.38	1.81	459.4	2.09	2.29	2.43
1551.4	1481.4	2.10	1.94	1.83	1481.4	1.09	1.45	1.91	479.8	2.10	2.29	2.44
1632.0	1562.0	1.85	1.71	1.61	1562.0	1.12	1.53	2.00	520.6	2.19	2.38	2.52
1692.5	1622.5	1.68	1.55	1.45	1622.5	1.16	1.58	2.06	541.1	2.25	2.46	2.60
1773.1	1703.1	1.48	1.36	1.29	1703.1	1.21	1.65	2.13	581.9	2.26	2.45	2.59
1833.6	1763.6	1.37	1.26	1.20	1763.6	1.26	1.69	2.17	602.3	2.35	2.55	2.70
1914.2	1844.2	1.28	1.20	1.16	1844.2	1.34	1.74	2.21	643.2	2.39	2.58	2.73
1974.7	1904.7	1.26	1.20	1.19	1904.7	1.40	1.79	2.25	663.6	2.43	2.63	2.78
2055.3	1985.3	1.27	1.26	1.28	1985.3	1.48	1.85	2.29	704.5	2.54	2.75	2.90
2115.8	2045.8	1.31	1.32	1.35	2045.8	1.51	1.87	2.29	724.9	2.56	2.76	2.91
2196.4	2126.4	1.38	1.40	1.44	2126.4	1.56	1.88	2.28	765.7	2.68	2.89	3.05
2256.8	2186.8	1.44	1.47	1.52	2186.8	1.60	1.91	2.28	786.2	2.69	2.89	3.05
2337.5	2267.5	1.51	1.56	1.61	2267.5	1.65	1.93	2.29	827.0	2.85	3.07	3.22
2397.9	2327.9	1.57	1.62	1.67	2327.9	1.67	1.92	2.26	847.4	2.87	3.08	3.24
2478.5	2408.5	1.64	1.69	1.75	2408.5	1.70	1.92	2.23	888.3	3.02	3.24	3.38
2539.0	2469.0	1.69	1.75	1.80	2469.0	1.74	1.95	2.25	908.7	3.11	3.31	3.47
2619.6	2549.6	1.74	1.80	1.86	2549.6	1.77	1.97	2.25	949.6	3.19	3.39	3.54
2680.1	2610.1	1.78	1.84	1.90	2610.1	1.79	1.97	2.25	970.0	3.32	3.51	3.66

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+2	37	17	24	22	36	45	44	46	49
1	-	18	+0	41	25	35	30	34	40	52	48	56
2	87	55	61	47	66	63	57	60	56	65	>69	68
3	>90	>69	61	>69	56	>69	>69	>69	67	68	69	>69
4	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
5	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
6	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
7	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
8	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
9	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
10	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1025 MHz; -14.00 dBm.
 LO IN: 955 MHz; +7.00 dBm
 IF OUT: 70 MHz; -21.22 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	8	46	27	36	35	50	59	65	66	67
1	-	18	+0	39	25	39	32	38	46	59	59	69
2	66	50	49	42	59	59	52	56	51	62	78	67
3	>90	50	42	59	38	60	59	55	52	53	57	70
4	>90	70	76	64	73	57	69	>79	69	69	65	71
5	>90	>79	74	74	62	77	55	71	74	73	65	68
6	>90	>79	>79	>79	>79	77	>79	68	>79	>79	>79	>79
7	>90	>79	>79	>79	>79	>79	78	>79	69	>79	>79	>79
8	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
9	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
10	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1025 MHz; -4.00 dBm.
 LO IN: 955 MHz; +7.00 dBm
 IF OUT: 70 MHz; -11.21 dBm

- Notes: 1. All Harmonics are in (dBc) relative to IF OUTPUT.
 2. + entry denotes harmonics are in (dBc) above IF OUTPUT.
 3. RF Cal represent the Harmonics level of the RF input signal to the mixer.