

Frequency Mixer

TFM-4+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	5.70	5.35	5.36
70.4	100.4	5.98	5.72	5.59
130.7	160.7	6.01	5.72	5.58
191.0	221.0	6.02	5.79	5.66
231.2	261.2	5.99	5.74	5.61
291.5	321.5	6.05	5.82	5.70
331.7	361.7	6.10	5.85	5.71
392.0	422.0	6.05	5.81	5.70
432.2	462.2	6.12	5.86	5.72
492.5	522.5	6.20	5.93	5.78
532.7	562.7	6.18	5.92	5.77
593.0	623.0	6.32	6.02	5.84
633.2	663.2	6.38	6.10	5.92
693.5	723.5	6.51	6.22	6.03
733.7	763.7	6.54	6.24	6.06
794.0	824.0	6.65	6.32	6.13
834.2	864.2	6.77	6.39	6.19
894.5	924.5	7.12	6.62	6.36
934.7	964.7	7.31	6.67	6.34
995.0	1025.0	7.59	6.81	6.36
1035.3	1065.3	7.86	7.03	6.48
1095.6	1125.6	8.06	7.22	6.67
1135.8	1165.8	8.09	7.29	6.71
1196.1	1226.1	8.07	7.32	6.80
1236.3	1266.3	7.94	7.23	6.81
1296.6	1326.6	8.01	7.40	7.04
1336.8	1366.8	7.98	7.46	7.14
1397.1	1427.1	8.24	7.85	7.60
1437.3	1467.3	8.32	8.01	7.80
1497.6	1527.6	8.49	8.24	8.07
1537.8	1567.8	8.46	8.26	8.11
1598.1	1628.1	8.66	8.45	8.33
1638.3	1668.3	8.84	8.65	8.54
1698.6	1728.6	8.99	8.79	8.71
1738.8	1768.8	9.23	9.02	8.94
1799.1	1829.1	9.49	9.27	9.18
1839.3	1869.3	10.06	9.76	9.65
1899.6	1929.6	10.24	9.88	9.77
1939.8	1969.8	10.57	10.24	10.12
2000.1	2030.1	10.84	10.47	10.33

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	18.14	19.53	20.51
70.4	100.4	19.17	18.50	21.21
130.7	160.7	15.39	20.34	21.21
191.0	221.0	20.22	18.94	19.43
231.2	261.2	21.00	17.39	19.28
291.5	321.5	15.12	16.11	18.55
331.7	361.7	13.71	15.54	20.23
392.0	422.0	14.38	18.70	21.15
432.2	462.2	11.33	12.90	18.32
492.5	522.5	14.23	17.20	21.11
532.7	562.7	15.04	21.04	18.81
593.0	623.0	11.32	15.66	21.08
633.2	663.2	11.08	13.39	17.65
693.5	723.5	11.64	13.91	17.43
733.7	763.7	11.80	15.15	19.44
794.0	824.0	12.48	18.95	20.01
834.2	864.2	11.58	18.45	20.61
894.5	924.5	10.78	16.81	18.26
934.7	964.7	9.07	16.43	16.82
995.0	1025.0	7.67	14.12	14.36
1035.3	1065.3	7.44	11.81	13.73
1095.6	1125.6	7.21	10.27	12.30
1135.8	1165.8	6.76	9.25	11.19
1196.1	1226.1	6.38	8.54	10.84
1236.3	1266.3	6.75	8.78	10.63
1296.6	1326.6	7.48	9.49	10.98
1336.8	1366.8	8.14	9.97	11.55
1397.1	1427.1	8.51	10.38	11.90
1437.3	1467.3	8.57	10.26	11.89
1497.6	1527.6	9.18	9.99	11.53
1537.8	1567.8	9.60	10.15	11.45
1598.1	1628.1	11.59	11.23	12.09
1638.3	1668.3	12.82	12.61	12.43
1698.6	1728.6	13.60	15.85	14.37
1738.8	1768.8	12.82	16.05	16.29
1799.1	1829.1	13.29	16.28	17.86
1839.3	1869.3	12.88	15.59	18.44
1899.6	1929.6	14.83	16.73	19.12
1939.8	1969.8	16.28	18.03	18.94
2000.1	2030.1	18.58	17.53	18.83

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+1dBm (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	1.32	0.84	0.68
70.4	100.4	1.13	0.86	0.60
130.7	160.7	0.88	0.70	0.55
191.0	221.0	0.98	0.68	0.49
231.2	261.2	0.94	0.67	0.50
291.5	321.5	0.88	0.62	0.45
331.7	361.7	0.85	0.59	0.45
392.0	422.0	0.88	0.62	0.47
432.2	462.2	0.83	0.61	0.47
492.5	522.5	0.80	0.60	0.46
532.7	562.7	0.93	0.71	0.55
593.0	623.0	0.91	0.71	0.54
633.2	663.2	1.04	0.82	0.64
693.5	723.5	1.11	0.87	0.67
733.7	763.7	1.28	1.00	0.78
794.0	824.0	1.39	1.09	0.88
834.2	864.2	1.50	1.18	0.95
894.5	924.5	1.42	1.13	0.89
934.7	964.7	1.43	1.25	1.00
995.0	1025.0	1.30	1.23	1.05
1035.3	1065.3	1.16	1.14	1.01
1095.6	1125.6	1.06	1.07	0.99
1135.8	1165.8	1.08	1.07	1.01
1196.1	1226.1	1.13	1.11	1.04
1236.3	1266.3	1.24	1.19	1.09
1296.6	1326.6	1.25	1.19	1.07
1336.8	1366.8	1.23	1.14	1.04
1397.1	1427.1	1.04	0.92	0.82
1437.3	1467.3	0.98	0.84	0.73
1497.6	1527.6	0.85	0.68	0.58
1537.8	1567.8	0.84	0.67	0.57
1598.1	1628.1	0.69	0.52	0.43
1638.3	1668.3	0.63	0.46	0.36
1698.6	1728.6	0.59	0.43	0.30
1738.8	1768.8	0.51	0.38	0.28
1799.1	1829.1	0.44	0.30	0.23
1839.3	1869.3	0.40	0.27	0.21
1899.6	1929.6	0.32	0.24	0.18
1939.8	1969.8	0.25	0.20	0.16
2000.1	2030.1	0.22	0.20	0.18

REV. X3

TFM-4+

101011

Page 1 of 5



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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=635.1MHz (dB)
		@LO (dBm)
		+7
625.0	10.1	6.16
609.2	25.9	6.11
593.5	41.6	6.04
577.7	57.4	6.02
561.9	73.2	6.07
546.2	88.9	6.09
530.4	104.7	6.00
514.6	120.5	6.01
498.8	136.3	5.94
483.1	152.0	5.94
467.3	167.8	5.95
451.5	183.6	5.98
435.8	199.3	5.98
420.0	215.1	6.00
404.2	230.9	5.98
388.5	246.6	5.97
372.7	262.4	5.99
356.9	278.2	6.00
341.2	293.9	6.00
325.4	309.7	6.03
309.6	325.5	6.03
293.8	341.3	6.01
278.1	357.0	6.02
262.3	372.8	6.01
246.5	388.6	6.02
230.8	404.3	6.02
215.0	420.1	6.03
199.2	435.9	6.02
183.5	451.6	6.04
167.7	467.4	6.07
151.9	483.2	6.04
136.2	498.9	6.04
120.4	514.7	6.03
104.6	530.5	6.00
88.8	546.3	6.02
73.1	562.0	6.01
57.3	577.8	6.01
41.5	593.6	6.02
25.8	609.3	6.04
10.0	625.1	6.14

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=10.1MHz (dB)
		@LO (dBm)
		+7
10.0	20.1	5.50
70.5	80.6	5.36
131.1	141.2	5.65
191.6	201.7	5.84
252.1	262.2	5.59
312.7	322.8	5.39
373.2	383.3	5.66
433.7	443.8	5.70
494.2	504.3	5.54
554.8	564.9	5.90
615.3	625.4	5.79
675.8	685.9	5.91
736.4	746.5	5.91
796.9	807.0	5.81
857.4	867.5	5.87
918.0	928.1	5.74
978.5	988.6	5.76
1039.0	1049.1	5.74
1099.6	1109.7	5.72
1160.1	1170.2	5.88
1220.6	1230.7	5.54
1281.2	1291.3	5.58
1341.7	1351.8	5.87
1402.2	1412.3	5.79
1462.7	1472.8	5.79
1523.3	1533.4	6.17
1583.8	1593.9	6.51
1644.3	1654.4	6.68
1704.9	1715.0	7.00
1765.4	1775.5	7.63
1825.9	1836.0	8.12
1886.5	1896.6	8.68
1926.8	1936.9	8.68
1987.3	1997.4	9.23
2027.7	2037.8	9.34
2088.2	2098.3	9.69
2128.6	2138.7	9.86
2189.1	2199.2	10.31
2229.5	2239.6	10.17
2290.0	2300.1	10.57

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1260.1MHz (dB)
		@LO (dBm)
		+7
1250.0	10.1	7.47
1209.3	50.8	7.41
1168.7	91.4	7.50
1128.0	132.1	7.53
1087.4	172.7	7.60
1046.7	213.4	7.66
1006.1	254.0	7.64
985.7	274.4	7.60
945.1	315.0	7.42
924.8	335.3	7.64
884.1	376.0	7.75
863.8	396.3	7.74
823.1	437.0	7.72
802.8	457.3	7.68
762.1	498.0	7.64
741.8	518.3	7.60
701.1	559.0	7.49
680.8	579.3	7.58
640.2	619.9	7.61
619.8	640.3	7.69
579.2	680.9	7.66
558.9	701.2	7.55
518.2	741.9	7.39
497.9	762.2	7.31
457.2	802.9	7.18
436.9	823.2	7.17
396.2	863.9	7.11
375.9	884.2	7.05
335.2	924.9	7.05
314.9	945.2	7.02
274.3	985.8	7.01
253.9	1006.2	7.14
213.3	1046.8	7.25
193.0	1067.1	7.40
152.3	1107.8	7.50
132.0	1128.1	7.51
91.3	1168.8	7.54
71.0	1189.1	7.51
30.3	1229.8	7.43
10.0	1250.1	7.49

REV. X3

TFM-4+

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Page 2 of 5



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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+4	+7	+10	+4	+7	+10
40.1	58.73	59.22	59.46	71.96	74.61	75.74
100.4	50.70	51.11	51.73	65.93	67.30	69.09
160.7	46.80	47.49	47.78	61.98	63.32	64.19
221.0	44.35	44.90	45.20	57.82	58.95	60.46
261.2	43.10	43.50	43.85	55.00	56.34	58.02
321.5	41.31	41.75	42.10	51.62	53.43	54.97
361.7	40.47	40.94	41.26	49.98	51.69	53.33
422.0	39.29	39.65	39.94	48.17	50.24	51.49
462.2	38.32	38.87	39.26	46.14	47.78	49.04
522.5	37.58	37.94	38.33	45.07	46.73	47.66
562.7	37.42	37.88	38.18	43.94	45.50	46.17
623.0	37.35	37.88	37.94	42.96	44.37	44.90
663.2	37.11	37.65	37.87	42.37	43.33	43.91
723.5	36.87	37.34	37.56	42.22	42.57	42.38
763.7	36.70	37.32	37.67	41.55	41.64	41.15
824.0	36.99	37.71	38.14	39.96	39.63	39.24
864.2	36.38	37.21	37.81	38.75	38.25	37.84
924.5	35.18	36.18	36.83	37.38	37.09	36.32
964.7	34.65	35.77	36.56	36.60	36.40	35.46
1025.0	33.97	35.07	35.87	36.49	36.31	35.17
1065.3	33.70	34.77	35.58	36.30	36.12	35.26
1125.6	33.23	34.25	35.11	36.99	36.60	35.62
1165.8	32.86	33.79	34.67	36.39	35.44	34.20
1226.1	32.10	32.96	33.80	34.13	32.51	31.37
1266.3	31.66	32.38	33.07	32.06	30.29	29.16
1326.6	31.03	31.51	32.00	29.72	28.13	27.20
1366.8	31.05	31.37	31.74	28.44	26.97	26.14
1427.1	31.15	31.10	31.21	27.70	26.26	25.29
1467.3	31.45	31.34	31.28	27.35	25.89	24.82
1527.6	31.41	31.18	31.06	27.31	25.72	24.51
1567.8	30.54	30.56	30.57	27.21	25.48	24.15
1628.1	30.69	30.51	30.55	28.57	26.07	24.63
1668.3	30.82	30.65	30.61	28.20	25.76	24.30
1728.6	30.84	30.68	30.63	28.40	25.90	24.42
1768.8	30.93	30.84	30.66	28.28	25.76	24.00
1829.1	30.72	30.57	30.62	28.42	25.79	24.29
1869.3	30.82	30.67	30.72	29.32	26.71	24.87
1929.6	30.45	30.15	30.05	29.14	26.82	25.07
1969.8	30.35	30.17	30.13	28.60	26.42	24.85
2030.1	30.24	30.21	30.34	28.30	26.73	25.31

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	48.30	47.29	46.59
70.4	100.4	34.06	33.87	33.29
130.7	160.7	28.78	29.70	28.99
191.0	221.0	26.96	27.28	26.88
231.2	261.2	25.93	26.17	25.99
291.5	321.5	25.22	25.26	25.56
331.7	361.7	25.02	24.97	25.35
392.0	422.0	25.35	25.65	25.96
432.2	462.2	25.39	25.91	26.17
492.5	522.5	25.73	26.12	26.50
532.7	562.7	25.57	26.03	26.55
593.0	623.0	25.06	26.05	27.15
633.2	663.2	24.28	25.08	25.81
693.5	723.5	22.91	23.20	23.32
733.7	763.7	21.36	21.35	21.32
794.0	824.0	19.20	18.96	18.80
834.2	864.2	18.21	17.87	17.60
894.5	924.5	17.17	16.73	16.51
934.7	964.7	16.74	16.33	16.07
995.0	1025.0	16.20	15.97	15.77
1035.3	1065.3	16.17	15.97	15.85
1095.6	1125.6	15.90	15.75	15.66
1135.8	1165.8	15.61	15.42	15.34
1196.1	1226.1	15.43	15.29	15.21
1236.3	1266.3	15.43	15.27	15.21
1296.6	1326.6	15.26	15.23	15.13
1336.8	1366.8	15.08	14.97	14.86
1397.1	1427.1	14.78	14.59	14.53
1437.3	1467.3	14.34	14.24	14.10
1497.6	1527.6	13.62	13.46	13.28
1537.8	1567.8	12.91	12.63	12.54
1598.1	1628.1	12.38	12.00	11.76
1638.3	1668.3	11.75	11.39	11.16
1698.6	1728.6	10.85	10.54	10.30
1738.8	1768.8	10.26	9.94	9.73
1799.1	1829.1	9.75	9.39	9.18
1839.3	1869.3	9.62	9.25	9.01
1899.6	1929.6	8.99	8.62	8.40
1939.8	1969.8	8.64	8.34	8.13
2000.1	2030.1	8.51	8.21	8.05

Frequency Mixer

TFM-4+

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
10.1	40.1	1.05	1.26	1.19	40.1	1.91	2.84	4.02	10.0	1.70	1.42	1.25
70.4	100.4	1.06	1.04	1.08	100.4	1.76	2.51	3.48	50.3	1.67	1.39	1.22
130.7	160.7	1.09	1.09	1.12	160.7	1.79	2.57	3.56	90.7	1.68	1.40	1.24
191.0	221.0	1.10	1.13	1.18	221.0	1.80	2.58	3.58	131.0	1.68	1.41	1.24
231.2	261.2	1.11	1.13	1.16	261.2	1.77	2.52	3.47	171.3	1.70	1.42	1.25
291.5	321.5	1.15	1.18	1.21	321.5	1.78	2.54	3.50	211.6	1.75	1.47	1.30
331.7	361.7	1.13	1.14	1.17	361.7	1.76	2.48	3.39	252.0	1.77	1.48	1.31
392.0	422.0	1.18	1.20	1.24	422.0	1.78	2.51	3.42	272.1	1.80	1.52	1.35
432.2	462.2	1.13	1.14	1.17	462.2	1.77	2.46	3.33	312.5	1.85	1.56	1.40
492.5	522.5	1.18	1.19	1.21	522.5	1.79	2.48	3.35	332.6	1.87	1.59	1.41
532.7	562.7	1.13	1.14	1.17	562.7	1.79	2.44	3.27	373.0	1.91	1.62	1.44
593.0	623.0	1.20	1.19	1.21	623.0	1.82	2.48	3.31	393.1	1.90	1.61	1.44
633.2	663.2	1.13	1.13	1.16	663.2	1.80	2.43	3.23	433.4	1.89	1.61	1.44
693.5	723.5	1.18	1.16	1.16	723.5	1.80	2.42	3.21	453.6	1.96	1.68	1.50
733.7	763.7	1.11	1.11	1.13	763.7	1.78	2.37	3.13	493.9	2.03	1.74	1.56
794.0	824.0	1.21	1.17	1.15	824.0	1.82	2.39	3.13	514.1	1.99	1.71	1.53
834.2	864.2	1.18	1.15	1.15	864.2	1.84	2.38	3.10	554.4	2.01	1.73	1.55
894.5	924.5	1.36	1.31	1.28	924.5	1.88	2.41	3.10	574.6	2.04	1.76	1.58
934.7	964.7	1.36	1.32	1.30	964.7	1.89	2.42	3.09	614.9	2.03	1.76	1.59
995.0	1025.0	1.58	1.50	1.44	1025.0	1.89	2.42	3.07	635.1	2.05	1.79	1.61
1035.3	1065.3	1.60	1.54	1.49	1065.3	1.88	2.40	3.05	675.4	2.10	1.84	1.66
1095.6	1125.6	1.75	1.66	1.59	1125.6	1.85	2.36	3.00	695.6	2.04	1.79	1.62
1135.8	1165.8	1.84	1.77	1.72	1165.8	1.82	2.33	2.96	735.9	1.98	1.74	1.58
1196.1	1226.1	1.87	1.79	1.72	1226.1	1.77	2.26	2.89	756.1	2.04	1.80	1.64
1236.3	1266.3	2.06	1.99	1.93	1266.3	1.76	2.25	2.87	796.4	2.02	1.80	1.64
1296.6	1326.6	1.95	1.89	1.83	1326.6	1.75	2.22	2.84	816.6	1.96	1.74	1.59
1336.8	1366.8	2.32	2.25	2.19	1366.8	1.78	2.25	2.86	856.9	1.98	1.77	1.62
1397.1	1427.1	2.14	2.10	2.06	1427.1	1.82	2.27	2.86	877.0	1.94	1.73	1.59
1437.3	1467.3	2.54	2.50	2.46	1467.3	1.89	2.33	2.90	917.4	1.84	1.64	1.51
1497.6	1527.6	2.26	2.26	2.25	1527.6	1.96	2.37	2.93	937.5	1.88	1.68	1.55
1537.8	1567.8	2.70	2.69	2.68	1567.8	2.04	2.43	2.97	977.9	1.84	1.65	1.52
1598.1	1628.1	2.39	2.40	2.41	1628.1	2.11	2.48	3.01	998.0	1.74	1.56	1.43
1638.3	1668.3	2.73	2.72	2.71	1668.3	2.20	2.55	3.07	1038.4	1.70	1.53	1.41
1698.6	1728.6	2.58	2.60	2.62	1728.6	2.29	2.61	3.12	1058.5	1.69	1.52	1.41
1738.8	1768.8	2.92	2.90	2.88	1768.8	2.39	2.68	3.17	1098.9	1.60	1.43	1.33
1799.1	1829.1	2.83	2.83	2.84	1829.1	2.50	2.76	3.23	1119.0	1.57	1.41	1.31
1839.3	1869.3	2.93	2.89	2.87	1869.3	2.60	2.73	3.11	1159.3	1.56	1.39	1.29
1899.6	1929.6	3.14	3.12	3.13	1929.6	2.76	2.88	3.25	1179.5	1.46	1.30	1.21
1939.8	1969.8	3.09	3.03	3.00	1969.8	2.89	3.05	3.45	1219.8	1.39	1.24	1.14
2000.1	2030.1	3.47	3.43	3.42	2030.1	3.05	3.19	3.57	1240.0	1.43	1.28	1.18

REV. X3

TFM-4+

101011

Page 4 of 5

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	16	19	13	30	18	33	37	50	53	54
1	-	19	+0	31	11	31	29	38	52	38	57	52
2	90	57	54	58	56	57	52	59	56	>70	68	>70
3	>90	63	61	64	60	64	57	65	>70	>70	>70	>70
4	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
5	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
6	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
7	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
8	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
9	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
10	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 625 MHz; -14.00 dBm.
LO IN: 655 MHz; +7.00 dBm
IF OUT: 30 MHz; -20.17 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	26	28	24	44	29	45	50	68	74	72
1	-	20	+0	28	12	34	30	43	52	46	55	61
2	69	53	47	54	48	54	45	54	49	71	75	74
3	>90	46	43	55	45	55	42	54	58	53	63	55
4	>90	>80	67	68	68	67	71	65	64	68	68	75
5	>90	72	>80	64	57	61	54	60	53	60	68	74
6	>90	>80	>80	>80	>80	>80	77	79	79	>80	>80	>80
7	>90	>80	>80	>80	>80	>80	79	>80	73	79	68	73
8	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
9	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
10	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 625 MHz; -4.00 dBm.
LO IN: 655 MHz; +7.00 dBm
IF OUT: 30 MHz; -10.18 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.

REV. X3
TFM-4+
101011
Page 5 of 5