

# Frequency Mixer

# TFM-42MH+

## Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+9dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+10	+13	+16			+10	+13	+16			+10	+13	+16
10.0	40.0	7.31	7.02	6.73	10.0	40.0	13.46	15.83	19.55	10.0	40.0	1.51	0.44	0.91
130.6	160.6	7.25	6.88	6.68	130.6	160.6	25.89	23.42	24.00	130.6	160.6	1.26	0.81	0.47
251.1	281.1	7.10	6.79	6.60	251.1	281.1	20.62	21.14	22.77	251.1	281.1	1.39	0.90	0.58
371.7	401.7	7.09	6.77	6.59	371.7	401.7	18.85	21.45	21.64	371.7	401.7	1.50	1.02	0.69
492.2	522.2	7.26	6.89	6.71	492.2	522.2	19.19	21.99	21.19	492.2	522.2	1.37	0.94	0.63
612.8	642.8	7.41	7.01	6.81	612.8	642.8	20.40	21.32	19.61	612.8	642.8	1.36	0.97	0.69
733.3	763.3	7.35	6.96	6.76	733.3	763.3	20.93	24.29	26.97	733.3	763.3	1.57	1.16	0.86
833.8	863.8	7.50	7.06	6.83	833.8	863.8	21.90	24.55	26.54	833.8	863.8	1.66	1.27	0.96
954.3	984.3	7.83	7.33	7.05	954.3	984.3	22.36	25.01	25.29	954.3	984.3	1.68	1.35	1.05
1054.8	1084.8	7.92	7.39	7.09	1054.8	1084.8	19.93	22.56	23.58	1054.8	1084.8	1.63	1.38	1.17
1175.3	1205.3	8.03	7.47	7.15	1175.3	1205.3	17.52	18.15	19.40	1175.3	1205.3	1.59	1.34	1.18
1275.8	1305.8	7.93	7.43	7.14	1275.8	1305.8	17.13	18.50	21.12	1275.8	1305.8	1.77	1.45	1.18
1396.4	1426.4	8.01	7.55	7.32	1396.4	1426.4	16.75	17.85	19.50	1396.4	1426.4	1.74	1.32	1.06
1496.8	1526.8	8.35	7.93	7.64	1496.8	1526.8	15.70	17.84	21.05	1496.8	1526.8	1.55	1.14	0.93
1617.4	1647.4	8.32	7.88	7.62	1617.4	1647.4	15.36	17.00	19.28	1617.4	1647.4	1.73	1.37	1.15
1717.8	1747.8	8.22	7.78	7.51	1717.8	1747.8	15.17	15.62	16.42	1717.8	1747.8	1.82	1.58	1.36
1838.4	1868.4	8.34	7.72	7.38	1838.4	1868.4	12.93	13.65	14.11	1838.4	1868.4	1.86	1.66	1.48
1938.8	1968.8	8.34	7.66	7.29	1938.8	1968.8	11.88	12.54	12.83	1938.8	1968.8	2.01	1.80	1.61
2059.4	2089.4	8.45	7.70	7.25	2059.4	2089.4	11.31	12.53	12.68	2059.4	2089.4	2.10	1.88	1.69
2159.9	2189.9	8.44	7.68	7.23	2159.9	2189.9	11.36	13.40	13.93	2159.9	2189.9	2.29	1.97	1.75
2280.4	2310.4	8.43	7.68	7.26	2280.4	2310.4	11.20	13.47	14.55	2280.4	2310.4	2.68	2.27	1.93
2380.9	2410.9	8.55	7.86	7.42	2380.9	2410.9	11.04	13.29	15.01	2380.9	2410.9	2.60	2.25	1.90
2501.4	2531.4	8.52	8.03	7.79	2501.4	2531.4	11.48	12.88	13.85	2501.4	2531.4	2.52	2.12	1.69
2601.9	2631.9	8.55	8.26	8.29	2601.9	2631.9	12.86	14.94	17.24	2601.9	2631.9	2.44	1.87	1.43
2722.4	2752.4	8.88	8.79	8.98	2722.4	2752.4	17.69	20.92	21.27	2722.4	2752.4	1.97	1.33	1.11
2822.9	2852.9	9.06	9.05	9.22	2822.9	2852.9	19.36	19.66	18.54	2822.9	2852.9	1.64	1.05	1.03
2943.5	2973.5	9.16	9.15	9.20	2943.5	2973.5	15.09	16.48	16.05	2943.5	2973.5	1.57	1.01	1.11
3043.9	3073.9	9.22	9.21	9.29	3043.9	3073.9	14.55	15.81	15.94	3043.9	3073.9	1.65	0.98	0.91
3164.5	3194.5	9.14	8.97	8.97	3164.5	3194.5	12.77	14.10	14.31	3164.5	3194.5	2.07	1.31	1.04
3264.9	3294.9	9.23	8.87	8.71	3264.9	3294.9	12.45	13.49	13.53	3264.9	3294.9	2.40	1.55	1.19
3385.5	3415.5	9.38	8.84	8.53	3385.5	3415.5	12.83	15.05	15.81	3385.5	3415.5	2.70	1.95	1.47
3485.9	3515.9	9.57	8.93	8.56	3485.9	3515.9	12.38	14.50	15.96	3485.9	3515.9	2.77	2.12	1.67
3606.5	3636.5	9.89	9.16	8.63	3606.5	3636.5	12.96	14.83	15.42	3606.5	3636.5	2.77	2.19	1.90
3707.0	3737.0	10.07	9.45	9.00	3707.0	3737.0	14.41	17.45	16.67	3707.0	3737.0	2.67	2.01	1.70
3827.5	3857.5	10.28	9.74	9.45	3827.5	3857.5	17.58	19.35	16.79	3827.5	3857.5	2.59	1.75	1.40
3928.0	3958.0	10.28	9.67	9.34	3928.0	3958.0	13.85	16.23	19.21	3928.0	3958.0	2.59	1.79	1.50
4048.5	4078.5	10.24	9.61	9.30	4048.5	4078.5	11.38	12.75	14.53	4048.5	4078.5	2.76	1.93	1.58
4149.0	4179.0	10.41	9.72	9.39	4149.0	4179.0	10.48	11.48	12.99	4149.0	4179.0	2.87	1.94	1.55
4269.5	4299.5	10.65	9.96	9.61	4269.5	4299.5	9.35	10.24	11.20	4269.5	4299.5	2.89	1.92	1.50
4370.0	4400.0	10.84	10.21	9.76	4370.0	4400.0	8.81	9.82	11.09	4370.0	4400.0	2.90	1.97	1.41



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## Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2110.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=10MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=4210.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		<b>+13</b>			<b>+13</b>			<b>+13</b>
2100.1	10.0	9.24	10.1	20.1	7.72	1450.1	2760.0	12.03
2040.4	69.7	8.96	130.7	140.7	6.95	1409.5	2800.6	11.84
1980.7	129.4	8.84	251.2	261.2	6.65	1369.0	2841.1	11.64
1921.0	189.1	8.73	371.8	381.8	6.55	1328.4	2881.7	11.53
1861.2	248.9	8.60	492.3	502.3	6.41	1287.8	2922.3	11.37
1801.5	308.6	8.50	612.9	622.9	6.48	1247.3	2962.8	11.20
1741.8	368.3	8.32	733.4	743.4	6.56	1206.7	3003.4	10.94
1682.1	428.0	8.18	833.9	843.9	6.57	1166.2	3043.9	10.74
1622.4	487.7	8.15	954.4	964.4	6.72	1125.6	3084.5	10.50
1562.7	547.4	8.06	1054.9	1064.9	6.84	1085.0	3125.1	10.17
1503.0	607.1	8.05	1175.4	1185.4	6.93	1044.5	3165.6	9.94
1443.2	666.9	7.85	1275.9	1285.9	7.08	1003.9	3206.2	9.73
1383.5	726.6	7.72	1396.5	1406.5	7.24	963.3	3246.8	9.54
1323.8	786.3	7.54	1496.9	1506.9	7.61	922.8	3287.3	9.45
1264.1	846.0	7.52	1617.5	1627.5	7.65	882.2	3327.9	9.34
1204.4	905.7	7.57	1717.9	1727.9	7.77	841.6	3368.5	9.29
1164.6	945.5	7.59	1838.5	1848.5	7.94	801.1	3409.0	9.31
1104.9	1005.2	7.64	1938.9	1948.9	8.09	760.5	3449.6	9.27
1065.1	1045.0	7.66	2059.5	2069.5	8.35	720.0	3490.1	9.28
1005.3	1104.8	7.64	2160.0	2170.0	8.45	679.4	3530.7	9.29
965.5	1144.6	7.59	2280.5	2290.5	8.96	638.8	3571.3	9.36
905.8	1204.3	7.69	2381.0	2391.0	9.12	598.3	3611.8	9.42
866.0	1244.1	7.54	2501.5	2511.5	9.44	557.7	3652.4	9.45
806.3	1303.8	7.53	2602.0	2612.0	9.09	517.1	3693.0	9.49
766.5	1343.6	7.36	2722.5	2732.5	8.90	476.6	3733.5	9.49
706.8	1403.3	7.26	2823.0	2833.0	9.03	436.0	3774.1	9.45
667.0	1443.1	7.18	2943.6	2953.6	9.14	395.5	3814.6	9.45
607.2	1502.9	7.11	3044.0	3054.0	9.27	375.2	3834.9	9.56
567.4	1542.7	7.04	3164.6	3174.6	9.10	334.6	3875.5	9.52
507.7	1602.4	7.03	3265.0	3275.0	8.95	314.3	3895.8	9.43
467.9	1642.2	7.05	3385.6	3395.6	9.10	273.8	3936.3	9.29
408.2	1701.9	7.02	3486.0	3496.0	9.24	253.5	3956.6	9.18
368.4	1741.7	7.07	3606.6	3616.6	9.51	212.9	3997.2	9.06
308.7	1801.4	7.07	3707.1	3717.1	9.56	192.6	4017.5	9.05
268.9	1841.2	7.08	3827.6	3837.6	9.79	152.1	4058.0	9.10
209.1	1901.0	7.06	3928.1	3938.1	9.97	131.8	4078.3	9.13
169.3	1940.8	7.11	4048.6	4058.6	10.56	91.2	4118.9	9.18
109.6	2000.5	7.18	4149.1	4159.1	10.86	70.9	4139.2	9.25
69.8	2040.3	7.33	4269.6	4279.6	11.05	30.4	4179.7	9.56
10.1	2100.0	8.21	4370.1	4380.1	11.31	10.1	4200.0	10.56



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## Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+10	+13	+16	+10	+13	+16
40.0	42.58	49.11	58.55	31.53	33.88	36.01
160.6	67.33	55.26	54.32	36.26	39.33	40.81
281.1	53.48	52.03	51.02	40.44	44.67	42.75
401.7	50.49	48.56	47.83	49.45	48.05	41.33
522.2	46.61	45.08	44.73	51.04	42.00	38.06
642.8	44.76	43.71	43.38	40.39	37.66	35.55
763.3	42.65	41.86	41.50	35.89	34.41	32.84
863.8	43.33	41.76	40.74	33.38	32.84	31.77
984.3	43.13	41.28	39.98	31.21	31.06	30.23
1084.8	43.26	41.92	40.80	29.97	30.21	29.80
1205.3	43.52	42.02	41.21	28.39	29.48	29.51
1305.8	51.77	47.81	45.00	27.56	29.10	29.58
1426.4	44.40	50.48	59.76	26.68	28.65	29.31
1526.8	45.88	43.50	42.54	28.23	28.07	28.79
1647.4	52.98	53.42	50.70	27.74	30.05	31.20
1747.8	56.32	52.20	47.59	28.05	30.93	32.78
1868.4	54.84	56.10	50.82	28.38	32.41	35.63
1968.8	46.88	51.79	49.52	28.61	32.95	36.94
2089.4	43.08	46.23	46.64	28.74	33.09	37.04
2189.9	40.44	43.40	44.34	28.63	32.60	35.38
2310.4	37.58	39.11	39.20	28.53	31.55	32.62
2410.9	35.27	35.80	35.25	29.16	31.06	30.35
2531.4	32.29	31.59	30.79	29.97	29.59	28.10
2631.9	30.66	29.46	28.57	31.28	29.75	27.94
2752.4	30.37	29.21	28.42	36.26	31.21	28.84
2852.9	29.43	28.64	27.98	43.37	32.44	30.36
2973.5	29.47	29.23	29.15	37.53	32.32	31.45
3073.9	28.96	28.50	28.88	32.63	30.59	30.10
3194.5	28.40	28.00	28.15	29.36	28.44	27.83
3294.9	28.34	27.74	27.48	28.16	27.40	26.55
3415.5	28.69	28.74	28.54	27.03	26.89	26.00
3515.9	28.60	29.00	29.03	25.91	26.19	25.72
3636.5	28.33	28.55	28.44	24.88	25.36	25.38
3737.0	28.46	28.82	28.72	24.14	24.88	25.06
3857.5	29.40	29.81	30.20	23.50	24.15	24.74
3958.0	29.48	30.07	30.68	22.83	23.74	24.42
4078.5	30.51	31.24	32.00	22.25	23.13	23.91
4179.0	31.71	32.24	32.25	22.08	22.96	23.72
4299.5	33.71	34.40	34.01	22.22	23.14	23.98
4400.0	35.15	36.20	35.15	22.38	23.52	24.13

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+10	+13	+16
10.0	40.0	15.40	15.67	15.85
130.6	160.6	22.55	22.41	22.74
251.1	281.1	23.94	24.41	25.38
371.7	401.7	25.30	26.10	26.67
492.2	522.2	26.27	26.55	26.64
612.8	642.8	26.44	26.32	26.37
733.3	763.3	26.31	26.30	26.35
833.8	863.8	25.88	25.59	25.46
954.3	984.3	25.89	25.43	25.19
1054.8	1084.8	26.11	25.85	25.73
1175.3	1205.3	27.36	26.95	26.40
1275.8	1305.8	27.72	27.20	26.50
1396.4	1426.4	28.90	28.71	28.33
1496.8	1526.8	26.48	29.73	29.51
1617.4	1647.4	28.73	28.79	29.13
1717.8	1747.8	30.71	30.56	30.27
1838.4	1868.4	32.70	31.59	30.68
1938.8	1968.8	34.35	32.42	30.77
2059.4	2089.4	35.74	33.75	32.10
2159.9	2189.9	33.65	33.14	32.12
2280.4	2310.4	31.14	31.54	31.33
2380.9	2410.9	30.38	31.59	31.67
2501.4	2531.4	31.94	34.58	33.02
2601.9	2631.9	37.93	37.69	34.15
2722.4	2752.4	41.79	32.75	30.27
2822.9	2852.9	34.25	30.81	27.85
2943.5	2973.5	32.21	30.84	29.21
3043.9	3073.9	31.02	31.19	29.69
3164.5	3194.5	31.51	34.97	39.80
3264.9	3294.9	31.09	33.07	38.00
3385.5	3415.5	29.29	30.24	32.81
3485.9	3515.9	27.38	26.80	27.16
3606.5	3636.5	26.68	25.91	25.73
3707.0	3737.0	25.71	24.79	24.52
3827.5	3857.5	25.52	24.01	23.45
3928.0	3958.0	26.97	25.33	24.47
4048.5	4078.5	29.51	27.36	25.72
4149.0	4179.0	31.66	29.37	27.30
4269.5	4299.5	34.91	31.98	29.40
4370.0	4400.0	36.18	33.59	30.61



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## Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=4200MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+10	+13	+16		+10	+13	+16		+10	+13	+16
10.0	40.0	1.70	1.76	1.69	40.0	1.41	1.95	2.61	10.0	1.53	1.43	1.38
130.6	160.6	1.25	1.14	1.07	160.6	1.24	1.74	2.33	110.0	1.88	1.66	1.54
251.1	281.1	1.28	1.17	1.11	281.1	1.17	1.65	2.20	210.0	1.98	1.76	1.64
371.7	401.7	1.34	1.23	1.18	401.7	1.13	1.60	2.13	310.0	2.09	1.88	1.75
492.2	522.2	1.43	1.32	1.26	522.2	1.07	1.52	2.02	410.0	2.20	1.98	1.84
612.8	642.8	1.56	1.45	1.38	642.8	1.03	1.44	1.89	510.0	2.33	2.10	1.95
733.3	763.3	1.72	1.61	1.53	763.3	1.06	1.38	1.81	610.0	2.43	2.20	2.03
833.8	863.8	1.88	1.74	1.66	863.8	1.09	1.35	1.76	710.0	2.54	2.30	2.11
954.3	984.3	2.09	1.92	1.81	984.3	1.16	1.35	1.74	810.0	2.62	2.37	2.17
1054.8	1084.8	2.23	2.05	1.94	1084.8	1.23	1.39	1.75	910.0	2.72	2.46	2.24
1175.3	1205.3	2.39	2.18	2.03	1205.3	1.30	1.46	1.82	1010.0	2.75	2.47	2.25
1275.8	1305.8	2.41	2.20	2.05	1305.8	1.36	1.54	1.90	1110.0	2.78	2.49	2.27
1396.4	1426.4	2.37	2.16	2.03	1426.4	1.41	1.64	2.01	1230.0	2.76	2.47	2.25
1496.8	1526.8	2.27	2.12	1.99	1526.8	1.46	1.72	2.11	1330.0	2.71	2.40	2.18
1617.4	1647.4	2.33	2.18	2.07	1647.4	1.53	1.84	2.24	1450.0	2.55	2.25	2.01
1717.8	1747.8	2.22	2.09	1.99	1747.8	1.56	1.89	2.27	1550.0	2.56	2.21	1.97
1838.4	1868.4	2.16	2.00	1.88	1868.4	1.62	2.01	2.46	1670.0	2.41	2.08	1.84
1938.8	1968.8	2.08	1.89	1.74	1968.8	1.66	2.08	2.52	1770.0	2.26	1.94	1.71
2059.4	2089.4	1.96	1.76	1.59	2089.4	1.66	2.11	2.55	1890.0	2.04	1.76	1.55
2159.9	2189.9	1.84	1.64	1.50	2189.9	1.63	2.07	2.51	1990.0	1.88	1.63	1.45
2280.4	2310.4	1.72	1.52	1.37	2310.4	1.56	1.97	2.36	2110.0	1.67	1.47	1.33
2380.9	2410.9	1.61	1.43	1.29	2410.9	1.49	1.87	2.21	2210.0	1.55	1.39	1.28
2501.4	2531.4	1.49	1.36	1.27	2531.4	1.41	1.72	2.00	2330.0	1.44	1.32	1.26
2601.9	2631.9	1.44	1.36	1.33	2631.9	1.35	1.58	1.78	2430.0	1.37	1.29	1.25
2722.4	2752.4	1.41	1.36	1.33	2752.4	1.33	1.44	1.55	2550.0	1.30	1.24	1.23
2822.9	2852.9	1.41	1.33	1.25	2852.9	1.37	1.41	1.48	2650.0	1.24	1.19	1.20
2943.5	2973.5	1.35	1.26	1.18	2973.5	1.46	1.46	1.53	2770.0	1.18	1.16	1.19
3043.9	3073.9	1.34	1.23	1.17	3073.9	1.54	1.52	1.58	2870.0	1.12	1.12	1.18
3164.5	3194.5	1.37	1.23	1.14	3194.5	1.60	1.53	1.56	2990.0	1.06	1.15	1.24
3264.9	3294.9	1.46	1.29	1.16	3294.9	1.63	1.51	1.51	3090.0	1.09	1.20	1.30
3385.5	3415.5	1.57	1.39	1.23	3415.5	1.62	1.46	1.42	3210.0	1.19	1.29	1.40
3485.9	3515.9	1.69	1.48	1.32	3515.9	1.56	1.39	1.34	3310.0	1.31	1.41	1.52
3606.5	3636.5	1.79	1.56	1.38	3636.5	1.45	1.30	1.25	3430.0	1.49	1.58	1.68
3707.0	3737.0	1.83	1.64	1.50	3737.0	1.36	1.23	1.21	3530.0	1.69	1.75	1.83
3827.5	3857.5	1.95	1.77	1.67	3857.5	1.26	1.20	1.24	3650.0	1.97	2.01	2.07
3928.0	3958.0	1.93	1.73	1.62	3958.0	1.22	1.24	1.32	3750.0	2.19	2.18	2.20
4048.5	4078.5	1.92	1.71	1.60	4078.5	1.28	1.35	1.46	3870.0	2.49	2.44	2.41
4149.0	4179.0	1.92	1.72	1.62	4179.0	1.39	1.48	1.60	3970.0	2.75	2.66	2.62
4269.5	4299.5	1.90	1.74	1.67	4299.5	1.56	1.66	1.78	4090.0	3.00	2.89	2.84
4370.0	4400.0	1.86	1.75	1.72	4400.0	1.71	1.80	1.92	4190.0	3.30	3.28	3.29



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RF/IF MICROWAVE COMPONENTS

## Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	6	16	9	23	23	28	26	30	36	43
1	-	26	+0	29	27	34	34	43	40	38	43	51
2	70	39	39	42	42	46	46	52	54	53	45	52
3	>90	59	45	53	45	56	50	53	64	58	59	59
4	>90	>76	67	63	64	63	63	68	62	76	71	67
5	>90	>76	>76	71	70	72	66	69	70	67	75	>76
6	>90	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76
7	>90	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76
8	>90	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76
9	>90	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76
10	>90	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 2105 MHz; -6.00 dBm.  
 LO IN: 2135 MHz; +13.00 dBm  
 IF OUT: 30 MHz; -13.55 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	8	17	11	26	25	31	29	33	38	46
1	-	26	+0	29	26	34	34	44	39	38	46	51
2	67	38	38	41	39	45	42	49	53	52	45	51
3	>90	55	41	49	42	54	47	53	65	57	58	58
4	>90	73	61	60	59	59	60	65	59	74	69	62
5	>90	>78	>78	66	64	67	60	65	64	64	71	73
6	>90	>78	>78	>78	>78	76	71	72	70	77	72	>78
7	>90	>78	>78	>78	>78	>78	>78	>78	75	74	75	75
8	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
9	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
10	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 2105 MHz; -4.00 dBm.  
 LO IN: 2135 MHz; +13.00 dBm  
 IF OUT: 30 MHz; -11.6 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.

