

Frequency Mixer

TFM-4300+

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=+1dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+4	+7	+10			+4	+7	+10			+4	+7	+10
150.0	180.0	18.58	12.12	8.82	150.0	180.0	-2.57	3.69	10.40	150.0	180.0	-4.96	-1.39	-0.06
250.0	280.0	10.08	7.22	6.30	250.0	280.0	2.96	10.38	12.86	250.0	280.0	0.35	0.79	0.55
350.0	380.0	7.41	6.15	5.62	350.0	380.0	6.36	8.99	12.69	350.0	380.0	1.73	1.13	0.82
450.0	480.0	6.58	5.71	5.24	450.0	480.0	7.13	10.94	16.00	450.0	480.0	1.96	1.40	1.12
550.0	580.0	6.33	5.63	5.24	550.0	580.0	7.79	12.05	16.78	550.0	580.0	1.95	1.46	1.19
650.0	680.0	6.16	5.48	5.12	650.0	680.0	7.88	12.13	19.13	650.0	680.0	2.02	1.64	1.33
750.0	780.0	6.41	5.63	5.21	750.0	780.0	6.76	8.67	11.28	750.0	780.0	2.01	1.74	1.48
850.0	880.0	7.41	6.36	5.69	850.0	880.0	6.03	10.41	15.17	850.0	880.0	1.43	1.50	1.43
970.0	1000.0	7.50	6.69	6.12	970.0	1000.0	6.08	7.90	9.61	970.0	1000.0	1.35	1.31	1.23
1070.0	1100.0	7.16	6.60	6.20	1070.0	1100.0	6.54	7.61	8.93	1070.0	1100.0	1.51	1.25	1.07
1190.0	1220.0	6.67	6.21	5.94	1190.0	1220.0	8.83	10.40	11.54	1190.0	1220.0	1.49	1.20	0.97
1290.0	1320.0	6.52	6.15	5.90	1290.0	1320.0	9.49	10.70	12.38	1290.0	1320.0	1.22	0.92	0.75
1410.0	1440.0	6.31	5.96	5.79	1410.0	1440.0	11.92	11.57	13.60	1410.0	1440.0	0.86	0.53	0.38
1510.0	1540.0	6.32	5.90	5.69	1510.0	1540.0	11.75	15.90	18.44	1510.0	1540.0	1.01	0.63	0.42
1630.0	1660.0	7.72	6.90	6.37	1630.0	1660.0	8.13	11.27	15.79	1630.0	1660.0	0.98	0.91	0.79
1730.0	1760.0	8.21	7.23	6.65	1730.0	1760.0	8.40	11.18	12.64	1730.0	1760.0	0.82	0.83	0.77
1850.0	1880.0	7.97	7.08	6.54	1850.0	1880.0	6.36	8.48	10.26	1850.0	1880.0	0.98	0.87	0.72
1950.0	1980.0	7.64	6.83	6.38	1950.0	1980.0	6.25	8.40	10.54	1950.0	1980.0	1.23	0.98	0.78
2070.0	2100.0	7.33	6.59	6.19	2070.0	2100.0	6.84	8.78	10.71	2070.0	2100.0	1.25	0.98	0.76
2170.0	2200.0	7.14	6.51	6.14	2170.0	2200.0	7.09	7.92	9.46	2170.0	2200.0	1.25	0.95	0.75
2290.0	2320.0	6.90	6.29	5.98	2290.0	2320.0	6.82	7.50	8.47	2290.0	2320.0	1.37	1.07	0.85
2390.0	2420.0	6.83	6.24	5.93	2390.0	2420.0	6.43	7.32	8.23	2390.0	2420.0	1.38	1.06	0.83
2510.0	2540.0	6.90	6.34	6.04	2510.0	2540.0	6.33	7.11	7.90	2510.0	2540.0	1.38	1.04	0.80
2610.0	2640.0	6.94	6.39	6.10	2610.0	2640.0	6.53	7.56	8.29	2610.0	2640.0	1.32	1.02	0.76
2730.0	2760.0	7.03	6.50	6.20	2730.0	2760.0	7.01	8.34	9.22	2730.0	2760.0	1.25	0.96	0.73
2830.0	2860.0	7.09	6.55	6.27	2830.0	2860.0	7.56	9.06	10.23	2830.0	2860.0	1.24	0.91	0.68
2950.0	2980.0	7.10	6.61	6.36	2950.0	2980.0	9.04	10.21	11.18	2950.0	2980.0	1.23	0.90	0.68
3050.0	3080.0	7.28	6.88	6.65	3050.0	3080.0	11.28	12.31	12.88	3050.0	3080.0	1.15	0.86	0.65
3170.0	3200.0	7.64	7.24	7.01	3170.0	3200.0	12.97	14.47	15.02	3170.0	3200.0	0.96	0.66	0.49
3270.0	3300.0	7.77	7.34	7.09	3270.0	3300.0	13.40	15.96	17.05	3270.0	3300.0	0.86	0.57	0.42
3390.0	3420.0	7.89	7.47	7.23	3390.0	3420.0	12.57	15.95	16.96	3390.0	3420.0	0.77	0.48	0.35
3490.0	3520.0	7.97	7.58	7.35	3490.0	3520.0	11.15	14.88	17.09	3490.0	3520.0	0.72	0.43	0.31
3610.0	3640.0	8.01	7.61	7.40	3610.0	3640.0	10.51	12.15	14.85	3610.0	3640.0	0.78	0.40	0.29
3710.0	3740.0	8.06	7.67	7.47	3710.0	3740.0	11.60	11.83	13.58	3710.0	3740.0	0.80	0.40	0.28
3830.0	3860.0	8.15	7.67	7.47	3830.0	3860.0	12.13	12.16	13.20	3830.0	3860.0	0.91	0.42	0.29
3930.0	3960.0	8.31	7.70	7.45	3930.0	3960.0	12.75	12.70	13.16	3930.0	3960.0	0.91	0.43	0.29
4050.0	4080.0	8.65	7.92	7.55	4050.0	4080.0	13.22	13.18	13.02	4050.0	4080.0	0.86	0.41	0.26
4150.0	4180.0	8.88	7.99	7.60	4150.0	4180.0	12.60	13.19	12.83	4150.0	4180.0	0.88	0.40	0.26
4270.0	4300.0	9.01	8.03	7.61	4270.0	4300.0	11.03	12.53	12.76	4270.0	4300.0	0.92	0.45	0.29
4370.0	4400.0	9.16	8.12	7.65	4370.0	4400.0	10.19	11.82	12.75	4370.0	4400.0	1.06	0.57	0.35



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RF/IF MICROWAVE COMPONENTS

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Frequency Mixer

TFM-4300+

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2160.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=289.9MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=4310.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
1630.1	530.0	10.50	10.1	300.0	6.58	1530.1	2780.0	10.48
1590.1	570.0	9.82	50.1	340.0	6.37	1489.6	2820.5	10.12
1550.1	610.0	9.35	90.1	380.0	6.29	1449.0	2861.1	9.82
1510.1	650.0	8.91	130.1	420.0	6.08	1408.5	2901.6	9.63
1470.1	690.0	8.53	170.1	460.0	6.04	1368.0	2942.1	9.52
1430.1	730.0	8.24	210.1	500.0	5.97	1327.4	2982.7	9.29
1390.1	770.0	7.98	250.1	540.0	5.97	1286.9	3023.2	9.08
1350.1	810.0	7.93	290.1	580.0	5.93	1246.4	3063.7	8.97
1310.1	850.0	7.80	330.1	620.0	5.89	1205.8	3104.3	8.86
1270.1	890.0	7.81	370.1	660.0	5.78	1165.3	3144.8	8.78
1230.1	930.0	7.87	410.1	700.0	5.61	1124.8	3185.3	8.76
1190.1	970.0	7.90	450.1	740.0	5.54	1084.2	3225.9	8.70
1150.1	1010.0	7.89	490.1	780.0	5.54	1043.7	3266.4	8.66
1110.1	1050.0	7.71	530.1	820.0	5.53	1003.2	3306.9	8.61
1070.1	1090.0	7.47	570.1	860.0	5.55	962.6	3347.5	8.53
1030.1	1130.0	7.57	610.1	900.0	5.55	922.1	3388.0	8.48
990.1	1170.0	7.72	650.1	940.0	5.71	881.6	3428.5	8.37
950.1	1210.0	7.89	690.1	980.0	5.94	841.0	3469.1	8.30
910.1	1250.0	7.99	730.1	1020.0	6.10	800.5	3509.6	8.16
870.1	1290.0	8.09	770.1	1060.0	6.23	760.0	3550.1	8.07
830.1	1330.0	8.01	810.1	1100.0	6.37	719.4	3590.7	8.01
790.1	1370.0	7.82	850.1	1140.0	6.34	678.9	3631.2	7.93
750.1	1410.0	7.72	890.1	1180.0	6.19	638.4	3671.7	7.91
710.1	1450.0	7.61	930.1	1220.0	6.20	597.8	3712.3	7.84
670.1	1490.0	7.59	970.1	1260.0	6.29	557.3	3752.8	7.88
630.1	1530.0	7.55	1010.1	1300.0	6.45	516.8	3793.3	7.89
590.1	1570.0	7.50	1050.1	1340.0	6.57	476.2	3833.9	7.92
550.1	1610.0	7.46	1110.1	1400.0	6.89	435.7	3874.4	7.90
510.1	1650.0	7.45	1150.1	1440.0	7.07	395.2	3914.9	7.96
470.1	1690.0	7.44	1210.1	1500.0	7.33	354.6	3955.5	7.98
430.1	1730.0	7.27	1250.1	1540.0	7.47	314.1	3996.0	7.98
390.1	1770.0	7.18	1310.1	1600.0	7.58	273.6	4036.5	8.01
350.1	1810.0	7.03	1350.1	1640.0	7.76	233.0	4077.1	8.02
310.1	1850.0	6.97	1410.1	1700.0	7.72	192.5	4117.6	8.01
270.1	1890.0	6.91	1450.1	1740.0	7.72	152.0	4158.1	8.04
210.1	1950.0	6.76	1510.1	1800.0	7.98	131.7	4178.4	7.98
170.1	1990.0	6.69	1550.1	1840.0	8.24	91.2	4218.9	8.00
110.1	2050.0	6.60	1610.1	1900.0	8.90	70.9	4239.2	8.03
70.1	2090.0	6.57	1650.1	1940.0	9.42	30.4	4279.7	8.03
10.1	2150.0	6.78	1710.1	2000.0	10.52	10.1	4300.0	8.27



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RF/IF MICROWAVE COMPONENTS

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LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+4	+7	+10	+4	+7	+10
180.0	23.54	23.99	25.03	32.80	28.82	26.03
280.0	22.86	24.51	26.59	25.76	23.86	23.87
380.0	24.36	26.40	28.51	22.83	22.95	24.17
480.0	25.73	27.96	30.20	22.43	23.65	24.99
580.0	27.33	29.83	32.28	23.58	25.14	26.25
680.0	28.51	31.22	34.06	25.45	27.52	28.43
780.0	29.55	32.26	35.07	27.98	30.08	30.75
880.0	30.69	33.52	36.49	30.78	31.89	31.94
1000.0	32.62	36.27	40.38	30.67	30.53	30.42
1100.0	32.94	37.10	42.44	26.97	26.71	26.57
1220.0	33.19	36.95	41.44	23.35	22.93	22.81
1320.0	33.32	36.24	39.57	20.74	20.27	19.93
1440.0	34.02	36.24	37.48	19.05	18.68	18.40
1540.0	31.29	32.50	33.15	17.51	17.25	16.94
1660.0	30.08	31.06	31.85	16.38	16.21	15.94
1760.0	30.23	30.79	31.49	15.88	15.74	15.76
1880.0	29.27	29.90	30.43	15.54	15.75	15.79
1980.0	28.57	29.10	29.76	15.69	15.92	16.17
2100.0	28.41	28.89	29.47	16.09	16.49	16.93
2200.0	28.68	29.39	29.93	16.61	17.19	17.73
2320.0	28.83	29.90	30.75	17.40	18.13	18.79
2420.0	29.02	30.18	31.18	18.20	19.07	19.84
2540.0	29.53	30.76	31.75	19.13	20.16	20.99
2640.0	30.17	31.57	32.66	19.95	21.14	22.05
2760.0	31.21	32.75	33.89	20.83	22.21	23.27
2860.0	32.21	33.88	34.43	21.46	23.18	24.37
2980.0	33.23	35.07	34.76	22.06	24.19	25.79
3080.0	33.94	35.71	35.19	22.47	24.73	26.25
3200.0	34.08	36.28	36.94	22.75	24.29	24.76
3300.0	33.05	35.02	36.35	22.46	23.04	22.87
3420.0	31.78	33.17	34.15	22.09	21.75	21.08
3520.0	31.22	32.13	32.61	21.88	20.91	19.76
3640.0	30.47	31.01	31.06	21.24	19.91	18.53
3740.0	29.62	30.01	29.78	20.43	18.83	17.44
3860.0	28.43	28.47	28.31	19.33	17.38	16.27
3960.0	27.34	27.23	27.05	18.33	16.37	15.27
4080.0	26.13	25.93	25.78	16.82	15.14	14.18
4180.0	25.08	24.96	24.85	15.64	14.35	13.53
4300.0	24.08	24.01	24.00	14.56	13.57	12.86
4400.0	23.08	23.38	23.22	13.57	13.14	12.26

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
150.0	180.0	33.45	32.98	36.12
250.0	280.0	33.95	33.77	34.75
350.0	380.0	34.70	36.18	37.12
450.0	480.0	38.25	37.47	35.72
550.0	580.0	47.91	38.72	35.34
650.0	680.0	37.25	32.96	30.89
750.0	780.0	36.63	33.26	31.23
850.0	880.0	28.44	28.93	29.03
970.0	1000.0	21.31	21.34	21.50
1070.0	1100.0	19.46	18.99	18.77
1190.0	1220.0	17.80	17.38	17.16
1290.0	1320.0	16.40	16.05	15.79
1410.0	1440.0	15.20	14.73	14.47
1510.0	1540.0	15.98	15.66	15.59
1630.0	1660.0	18.03	17.95	17.89
1730.0	1760.0	16.91	17.06	17.10
1850.0	1880.0	16.45	16.76	16.81
1950.0	1980.0	16.87	17.12	17.25
2070.0	2100.0	17.40	17.61	17.69
2170.0	2200.0	18.04	18.25	18.33
2290.0	2320.0	18.75	18.98	19.11
2390.0	2420.0	19.40	19.60	19.74
2510.0	2540.0	19.86	19.96	20.15
2610.0	2640.0	20.38	20.51	20.61
2730.0	2760.0	20.74	20.80	20.85
2830.0	2860.0	20.81	20.83	20.68
2950.0	2980.0	20.91	20.47	20.18
3050.0	3080.0	21.13	20.52	19.99
3170.0	3200.0	21.88	21.38	21.05
3270.0	3300.0	22.93	22.70	22.53
3390.0	3420.0	23.62	23.62	23.80
3490.0	3520.0	23.99	23.99	24.01
3610.0	3640.0	24.04	23.94	23.96
3710.0	3740.0	23.97	23.75	23.75
3830.0	3860.0	23.72	23.49	23.33
3930.0	3960.0	23.38	23.08	22.94
4050.0	4080.0	22.68	22.41	22.21
4150.0	4180.0	22.17	21.98	21.76
4270.0	4300.0	21.46	21.35	21.16
4370.0	4400.0	21.18	21.16	21.00



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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=2400MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+4	+7	+10		+4	+7	+10		+4	+7	+10
150.0	180.0	14.26	8.35	5.75	180.0	10.31	9.58	8.16	10.0	1.35	1.11	1.04
250.0	280.0	4.29	3.01	2.65	280.0	5.10	4.54	4.30	70.0	1.36	1.14	1.09
350.0	380.0	2.40	1.99	1.86	380.0	3.11	2.97	3.26	130.0	1.37	1.16	1.12
450.0	480.0	1.93	1.66	1.54	480.0	2.21	2.39	2.85	190.0	1.42	1.23	1.20
550.0	580.0	1.85	1.62	1.50	580.0	1.77	2.11	2.61	250.0	1.41	1.26	1.26
650.0	680.0	1.97	1.74	1.59	680.0	1.55	1.96	2.45	310.0	1.43	1.29	1.28
750.0	780.0	2.33	2.05	1.88	780.0	1.44	1.86	2.31	370.0	1.48	1.38	1.39
850.0	880.0	3.18	2.85	2.61	880.0	1.41	1.79	2.18	430.0	1.47	1.40	1.43
970.0	1000.0	3.65	3.36	3.13	1000.0	1.42	1.72	2.04	490.0	1.48	1.41	1.43
1070.0	1100.0	3.45	3.26	3.10	1100.0	1.46	1.67	1.93	550.0	1.51	1.48	1.52
1190.0	1220.0	3.00	2.85	2.74	1220.0	1.54	1.63	1.82	610.0	1.47	1.45	1.51
1290.0	1320.0	2.68	2.55	2.45	1320.0	1.61	1.61	1.75	670.0	1.47	1.45	1.50
1410.0	1440.0	2.20	2.03	1.93	1440.0	1.64	1.57	1.66	730.0	1.44	1.46	1.54
1510.0	1540.0	2.06	1.85	1.69	1540.0	1.65	1.53	1.59	790.0	1.38	1.41	1.49
1630.0	1660.0	3.02	2.79	2.60	1660.0	1.66	1.48	1.51	850.0	1.36	1.40	1.50
1730.0	1760.0	3.21	2.98	2.80	1760.0	1.65	1.44	1.45	910.0	1.30	1.40	1.55
1850.0	1880.0	2.91	2.76	2.61	1880.0	1.64	1.38	1.38	970.0	1.25	1.38	1.54
1950.0	1980.0	2.63	2.50	2.39	1980.0	1.63	1.33	1.32	1030.0	1.25	1.41	1.59
2070.0	2100.0	2.37	2.25	2.17	2100.0	1.63	1.33	1.29	1090.0	1.23	1.43	1.62
2170.0	2200.0	2.20	2.10	2.03	2200.0	1.60	1.31	1.28	1150.0	1.22	1.42	1.61
2290.0	2320.0	2.07	1.95	1.88	2320.0	1.58	1.27	1.23	1210.0	1.24	1.45	1.64
2390.0	2420.0	2.02	1.91	1.84	2420.0	1.55	1.24	1.19	1270.0	1.25	1.45	1.64
2510.0	2540.0	1.99	1.90	1.84	2540.0	1.53	1.20	1.14	1330.0	1.26	1.44	1.60
2610.0	2640.0	2.01	1.93	1.88	2640.0	1.48	1.14	1.11	1390.0	1.31	1.50	1.66
2730.0	2760.0	2.08	2.02	1.99	2760.0	1.43	1.10	1.13	1450.0	1.30	1.47	1.60
2830.0	2860.0	2.19	2.14	2.12	2860.0	1.37	1.08	1.19	1510.0	1.30	1.45	1.57
2950.0	2980.0	2.37	2.34	2.33	2980.0	1.26	1.10	1.29	1570.0	1.32	1.45	1.54
3050.0	3080.0	2.52	2.49	2.48	3080.0	1.17	1.17	1.39	1630.0	1.33	1.42	1.49
3170.0	3200.0	2.76	2.73	2.72	3200.0	1.12	1.28	1.53	1690.0	1.40	1.47	1.53
3270.0	3300.0	2.85	2.83	2.80	3300.0	1.11	1.35	1.61	1750.0	1.49	1.55	1.59
3390.0	3420.0	2.96	2.95	2.93	3420.0	1.15	1.43	1.72	1810.0	1.61	1.65	1.68
3490.0	3520.0	2.98	2.97	2.96	3520.0	1.26	1.51	1.79	1870.0	1.77	1.80	1.82
3610.0	3640.0	3.00	2.97	2.96	3640.0	1.42	1.62	1.86	1930.0	1.95	1.97	1.98
3710.0	3740.0	2.99	2.92	2.90	3740.0	1.56	1.70	1.92	1990.0	2.14	2.15	2.16
3830.0	3860.0	2.96	2.82	2.77	3860.0	1.72	1.78	1.94	2050.0	2.36	2.36	2.36
3930.0	3960.0	2.92	2.74	2.66	3960.0	1.84	1.84	1.93	2110.0	2.57	2.57	2.57
4050.0	4080.0	2.86	2.67	2.55	4080.0	1.95	1.87	1.89	2150.0	2.70	2.70	2.70
4150.0	4180.0	2.77	2.56	2.45	4180.0	2.01	1.85	1.82	2210.0	2.92	2.92	2.91
4270.0	4300.0	2.56	2.37	2.28	4300.0	2.03	1.81	1.73	2250.0	3.06	3.06	3.05
4370.0	4400.0	2.38	2.21	2.13	4400.0	1.97	1.74	1.61	2310.0	3.26	3.26	3.26

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+9	28	23	37	24	41	41	58	53	>70
1	-	13	+0	31	29	34	39	40	47	56	65	66
2	89	50	59	49	56	59	65	66	56	64	69	>70
3	>90	>70	>70	>70	57	>70	>70	68	67	>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: 2300 MHz; -14.00 dBm.
 LO IN: 2330 MHz; +7.00 dBm
 IF OUT: 30 MHz; -20.28 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	1	39	33	49	38	57	57	72	63	>80
1	-	13	+0	33	30	37	43	47	57	68	75	>80
2	69	41	50	43	49	61	66	58	54	64	72	>80
3	>90	52	53	63	37	52	55	52	56	57	68	75
4	>90	75	>80	64	72	59	66	62	74	69	69	74
5	>90	70	76	76	>80	73	61	68	77	66	69	69
6	>90	>80	>80	>80	>80	76	>80	78	>80	72	>80	>80
7	>90	>80	>80	>80	>80	>80	>80	>80	78	>80	>80	>80
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: 2300 MHz; -4.00 dBm.
 LO IN: 2330 MHz; +7.00 dBm
 IF OUT: 30 MHz; -10.45 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.

