

Frequency Mixer

TUF-11AH

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=40MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+14dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+14	+17	+20			+14	+17	+20			+14	+17	+20
460.0	500.0	12.40	10.85	9.82	460.0	500.0	16.16	19.42	24.74	460.0	500.0	-1.19	-0.63	-0.25
520.0	560.0	11.17	9.57	8.78	520.0	560.0	16.88	21.92	26.03	520.0	560.0	-0.61	-0.07	0.05
580.0	620.0	11.11	9.41	8.60	580.0	620.0	16.21	20.33	24.57	580.0	620.0	-0.53	0.05	0.15
640.0	680.0	10.78	9.12	8.29	640.0	680.0	16.13	20.57	24.57	640.0	680.0	-0.29	0.22	0.32
700.0	740.0	9.88	8.42	7.73	700.0	740.0	17.69	21.47	22.51	700.0	740.0	0.54	0.77	0.73
760.0	800.0	9.67	8.26	7.62	760.0	800.0	17.43	20.11	21.37	760.0	800.0	0.73	0.88	0.84
820.0	860.0	9.18	7.95	7.38	820.0	860.0	18.21	19.97	21.32	820.0	860.0	1.20	1.07	0.96
880.0	920.0	8.72	7.70	7.23	880.0	920.0	18.04	19.26	20.43	880.0	920.0	1.45	1.23	1.09
940.0	980.0	8.26	7.30	6.87	940.0	980.0	18.50	19.45	20.71	940.0	980.0	1.67	1.38	1.22
1000.0	1040.0	8.09	7.18	6.80	1000.0	1040.0	19.14	19.80	20.72	1000.0	1040.0	1.65	1.23	1.07
1060.0	1100.0	7.78	6.97	6.60	1060.0	1100.0	19.47	20.52	21.39	1060.0	1100.0	1.56	1.01	0.87
1120.0	1160.0	7.91	7.05	6.70	1120.0	1160.0	23.57	24.43	24.58	1120.0	1160.0	1.34	0.71	0.56
1180.0	1220.0	8.27	7.23	6.85	1180.0	1220.0	23.26	27.35	27.41	1180.0	1220.0	1.17	0.70	0.57
1240.0	1280.0	8.76	7.51	7.02	1240.0	1280.0	21.01	27.61	26.34	1240.0	1280.0	1.14	0.96	0.80
1300.0	1340.0	9.18	7.69	7.06	1300.0	1340.0	19.47	23.20	23.92	1300.0	1340.0	0.98	1.06	0.94
1360.0	1400.0	9.29	7.62	6.97	1360.0	1400.0	19.71	22.44	22.97	1360.0	1400.0	1.14	1.29	1.15
1420.0	1460.0	9.12	7.60	6.94	1420.0	1460.0	19.69	22.30	22.55	1420.0	1460.0	1.17	1.29	1.19
1480.0	1520.0	9.06	7.53	6.84	1480.0	1520.0	20.21	23.15	24.38	1480.0	1520.0	1.30	1.37	1.24
1540.0	1580.0	9.06	7.77	7.05	1540.0	1580.0	19.98	21.65	23.20	1540.0	1580.0	1.20	1.11	1.08
1600.0	1640.0	8.73	7.58	6.97	1600.0	1640.0	20.79	21.29	22.12	1600.0	1640.0	1.55	1.26	1.15
1660.0	1700.0	8.81	7.65	7.08	1660.0	1700.0	20.31	20.42	21.50	1660.0	1700.0	1.38	1.11	1.02
1720.0	1760.0	8.64	7.60	7.12	1720.0	1760.0	20.75	20.44	21.21	1720.0	1760.0	1.47	1.17	0.99
1780.0	1820.0	8.51	7.51	7.05	1780.0	1820.0	20.97	20.39	21.09	1780.0	1820.0	1.42	1.15	1.02
1840.0	1880.0	8.55	7.54	7.13	1840.0	1880.0	20.57	20.33	21.15	1840.0	1880.0	1.41	1.15	0.99
1900.0	1940.0	8.49	7.52	7.15	1900.0	1940.0	20.65	20.36	20.72	1900.0	1940.0	1.32	1.04	0.92
1960.0	2000.0	8.52	7.50	7.09	1960.0	2000.0	19.43	19.53	20.00	1960.0	2000.0	1.37	0.98	0.89
2020.0	2060.0	8.53	7.60	7.14	2020.0	2060.0	19.95	19.94	21.06	2020.0	2060.0	1.28	0.82	0.74
2080.0	2120.0	8.62	7.74	7.33	2080.0	2120.0	19.98	20.12	20.76	2080.0	2120.0	1.25	0.78	0.64
2140.0	2180.0	8.65	7.74	7.32	2140.0	2180.0	20.40	20.87	21.06	2140.0	2180.0	1.17	0.77	0.60
2200.0	2240.0	8.87	8.00	7.59	2200.0	2240.0	20.35	22.11	22.05	2200.0	2240.0	1.12	0.68	0.53
2260.0	2300.0	9.02	8.23	7.78	2260.0	2300.0	19.95	22.00	23.35	2260.0	2300.0	1.21	0.66	0.56
2320.0	2360.0	9.17	8.42	7.91	2320.0	2360.0	20.22	22.44	25.14	2320.0	2360.0	1.10	0.53	0.46
2360.0	2400.0	9.33	8.65	8.18	2360.0	2400.0	20.35	22.60	25.53	2360.0	2400.0	1.14	0.55	0.43
2420.0	2460.0	9.55	8.85	8.38	2420.0	2460.0	21.01	22.95	26.52	2420.0	2460.0	1.09	0.47	0.34
2460.0	2500.0	9.78	9.21	8.80	2460.0	2500.0	21.86	22.70	25.42	2460.0	2500.0	1.03	0.44	0.29
2520.0	2560.0	9.91	9.39	9.00	2520.0	2560.0	23.82	23.59	24.96	2520.0	2560.0	0.96	0.37	0.21
2560.0	2600.0	10.27	9.80	9.48	2560.0	2600.0	25.06	24.78	25.82	2560.0	2600.0	0.96	0.34	0.18
2620.0	2660.0	10.47	9.98	9.72	2620.0	2660.0	25.16	25.62	27.11	2620.0	2660.0	0.95	0.34	0.16
2660.0	2700.0	10.95	10.48	10.25	2660.0	2700.0	26.05	27.07	28.01	2660.0	2700.0	0.88	0.35	0.16
2720.0	2760.0	11.28	10.78	10.55	2720.0	2760.0	26.21	28.06	29.65	2720.0	2760.0	0.86	0.32	0.17

Frequency Mixer

TUF-11AH

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1650MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1389.9MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1910.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
1590.0	60.0	10.43	10.1	1400.0	8.69	1690.1	220.0	10.33
1510.0	140.0	9.81	50.1	1440.0	7.50	1650.1	260.0	10.04
1430.0	220.0	9.43	90.1	1480.0	7.32	1610.1	300.0	9.68
1350.0	300.0	9.13	130.1	1520.0	7.33	1570.1	340.0	9.46
1270.0	380.0	8.52	170.1	1560.0	7.40	1530.1	380.0	9.23
1190.0	460.0	8.32	210.1	1600.0	7.56	1490.1	420.0	8.89
1110.0	540.0	8.35	250.1	1640.0	7.69	1450.1	460.0	8.81
1030.0	620.0	8.03	290.1	1680.0	7.74	1410.1	500.0	8.83
950.0	700.0	7.58	330.1	1720.0	7.80	1370.1	540.0	8.92
870.0	780.0	7.16	370.1	1760.0	7.85	1330.1	580.0	8.94
790.0	860.0	6.79	410.1	1800.0	7.96	1290.1	620.0	9.06
710.0	940.0	6.66	450.1	1840.0	8.05	1250.1	660.0	9.10
630.0	1020.0	6.80	490.1	1880.0	8.13	1210.1	700.0	8.94
550.0	1100.0	7.28	530.1	1920.0	8.13	1170.1	740.0	8.79
470.0	1180.0	7.27	570.1	1960.0	8.07	1130.1	780.0	8.55
390.0	1260.0	7.40	610.1	2000.0	8.00	1090.1	820.0	8.21
310.0	1340.0	7.44	650.1	2040.0	7.87	1050.1	860.0	7.89
230.0	1420.0	7.29	690.1	2080.0	7.73	1010.1	900.0	7.42
150.0	1500.0	7.35	730.1	2120.0	7.56	970.1	940.0	7.08
70.0	1580.0	7.62	770.1	2160.0	7.35	930.1	980.0	6.85
10.0	1660.0	8.70	810.1	2200.0	7.18	890.1	1020.0	6.65
90.0	1740.0	7.41	850.1	2240.0	7.05	850.1	1060.0	6.56
170.0	1820.0	7.51	890.1	2280.0	6.98	810.1	1100.0	6.50
250.0	1900.0	7.60	930.1	2320.0	6.95	770.1	1140.0	6.56
330.0	1980.0	7.74	970.1	2360.0	6.96	730.1	1180.0	6.62
410.0	2060.0	7.80	1010.1	2400.0	7.00	690.1	1220.0	6.70
490.0	2140.0	7.66	1050.1	2440.0	7.15	650.1	1260.0	6.82
570.0	2220.0	7.34	1090.1	2480.0	7.27	610.1	1300.0	6.96
650.0	2300.0	7.17	1130.1	2520.0	7.42	570.1	1340.0	7.08
730.0	2380.0	6.96	1170.1	2560.0	7.59	510.1	1400.0	7.24
810.0	2460.0	6.82	1210.1	2600.0	7.71	470.1	1440.0	7.18
890.0	2540.0	6.83	1250.1	2640.0	7.92	410.1	1500.0	7.11
970.0	2620.0	6.95	1290.1	2680.0	8.13	370.1	1540.0	7.06
1050.0	2700.0	7.15	1330.1	2720.0	8.34	310.1	1600.0	7.07
1130.0	2780.0	7.38	1370.1	2760.0	8.65	270.1	1640.0	7.05
1230.0	2880.0	7.78	1410.1	2800.0	8.84	210.1	1700.0	7.06
1310.0	2960.0	8.24	1450.1	2840.0	9.09	170.1	1740.0	7.08
1410.0	3060.0	8.91	1510.1	2900.0	9.42	110.1	1800.0	7.24
1490.0	3140.0	9.45	1550.1	2940.0	9.82	70.1	1840.0	7.43
1590.0	3240.0	10.28	1610.1	3000.0	10.35	10.1	1900.0	9.19

Frequency Mixer

TUF-11AH

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)			RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)					@LO (dBm)		
	+14	+17	+20	+14	+17	+20			+14	+17	+20
500.0	45.03	45.27	45.61	26.17	25.87	25.47	460.0	490.0	25.19	24.71	24.31
560.0	44.65	44.78	45.32	25.60	25.04	24.70	520.0	550.0	24.02	23.84	23.57
620.0	44.88	45.23	46.21	25.07	24.31	24.02	580.0	610.0	23.44	23.46	23.34
680.0	44.88	45.71	46.87	24.66	24.05	23.68	640.0	670.0	22.54	22.39	22.18
740.0	45.67	46.47	47.56	24.34	23.67	23.30	700.0	730.0	22.43	22.35	22.24
800.0	47.17	47.52	47.38	23.86	23.36	22.93	760.0	790.0	22.75	22.49	22.36
860.0	49.26	49.39	49.36	23.32	22.74	22.60	820.0	850.0	23.52	23.38	23.44
920.0	49.55	49.61	49.71	22.90	22.48	22.27	880.0	910.0	24.52	24.32	24.38
980.0	50.59	50.07	49.74	22.89	22.53	22.18	940.0	970.0	26.22	26.18	26.00
1040.0	52.49	52.23	52.41	22.81	22.38	22.06	1000.0	1030.0	28.73	28.75	28.78
1100.0	60.02	64.83	69.57	22.62	22.25	21.89	1060.0	1090.0	33.08	34.05	34.28
1160.0	58.92	52.84	50.19	22.47	22.24	21.92	1120.0	1150.0	39.14	44.58	43.59
1220.0	46.24	44.21	43.16	22.24	22.12	21.89	1180.0	1210.0	31.86	32.52	32.78
1280.0	42.60	42.60	42.93	21.85	21.75	21.60	1240.0	1270.0	27.94	29.31	29.98
1340.0	39.64	40.54	41.93	21.90	21.74	21.67	1300.0	1330.0	27.31	29.01	30.13
1400.0	37.73	39.74	41.95	21.15	21.38	21.74	1360.0	1390.0	28.38	29.83	31.20
1460.0	41.86	42.73	46.88	21.22	21.49	21.89	1420.0	1450.0	27.38	28.62	30.43
1520.0	44.94	43.99	46.85	21.89	22.34	22.41	1480.0	1510.0	27.56	28.06	29.68
1580.0	44.46	43.87	44.72	22.95	23.54	23.36	1540.0	1570.0	27.90	27.63	28.61
1640.0	42.54	42.70	43.60	23.86	24.84	24.36	1600.0	1630.0	28.28	27.59	27.99
1700.0	40.34	40.85	42.46	24.82	26.25	25.41	1660.0	1690.0	28.22	27.52	27.49
1760.0	37.91	38.53	40.11	26.00	27.40	26.53	1720.0	1750.0	28.06	27.41	27.06
1820.0	36.32	37.10	38.68	27.22	28.51	27.80	1780.0	1810.0	27.74	27.43	26.93
1880.0	34.42	35.27	36.70	28.86	29.91	28.77	1840.0	1870.0	27.59	27.50	27.23
1940.0	33.26	34.00	35.31	30.72	31.21	29.87	1900.0	1930.0	27.65	27.58	27.47
2000.0	32.38	33.03	34.27	32.44	33.06	31.18	1960.0	1990.0	27.80	27.65	27.65
2060.0	31.32	31.99	32.93	34.07	34.34	32.05	2020.0	2050.0	27.99	28.08	28.21
2120.0	30.54	31.43	32.28	35.64	35.05	32.69	2080.0	2110.0	28.29	28.66	28.84
2180.0	29.87	31.13	32.28	37.77	36.71	33.47	2140.0	2170.0	28.54	29.09	29.48
2240.0	28.95	30.12	31.47	38.91	39.12	35.14	2200.0	2230.0	28.58	29.17	29.66
2300.0	28.65	30.03	31.40	36.95	41.86	37.51	2260.0	2290.0	28.10	28.51	28.97
2360.0	28.17	29.74	31.27	35.01	40.02	39.92	2320.0	2350.0	27.01	27.33	27.67
2400.0	27.96	29.61	31.25	34.21	37.94	39.58	2360.0	2390.0	26.16	26.52	26.91
2460.0	27.62	29.50	31.26	34.29	36.22	37.78	2420.0	2450.0	25.08	25.64	26.35
2500.0	27.31	29.25	30.88	34.51	35.68	36.75	2460.0	2490.0	24.54	25.25	26.08
2560.0	26.94	28.99	30.62	35.21	35.75	36.61	2520.0	2550.0	24.43	25.37	26.48
2600.0	26.81	28.77	30.24	35.42	35.61	36.55	2560.0	2590.0	24.68	25.69	26.96
2660.0	27.17	29.26	30.69	36.17	35.81	36.88	2620.0	2650.0	25.79	26.90	28.28
2700.0	27.20	29.25	30.64	36.72	36.19	37.30	2660.0	2690.0	26.81	27.98	29.37
2760.0	27.36	29.44	30.91	38.28	37.11	38.53	2720.0	2750.0	28.50	30.34	31.86

Frequency Mixer

TUF-11AH

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1900MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
460.0	500.0	6.03	5.23	4.75	500.0	1.75	1.48	1.88	10.0	2.03	2.00	2.02
520.0	560.0	4.68	4.04	3.70	560.0	1.84	1.49	1.82	50.0	1.41	1.33	1.33
580.0	620.0	4.06	3.45	3.16	620.0	1.93	1.48	1.78	90.0	1.43	1.29	1.26
640.0	680.0	3.40	2.89	2.65	680.0	2.10	1.53	1.73	130.0	1.42	1.28	1.25
700.0	740.0	2.82	2.40	2.20	740.0	2.17	1.53	1.68	170.0	1.46	1.33	1.29
760.0	800.0	2.53	2.12	1.92	800.0	2.36	1.58	1.65	210.0	1.46	1.32	1.28
820.0	860.0	2.21	1.85	1.67	860.0	2.48	1.62	1.61	250.0	1.48	1.36	1.32
880.0	920.0	2.05	1.74	1.56	920.0	2.60	1.66	1.57	290.0	1.50	1.37	1.32
940.0	980.0	1.94	1.66	1.50	980.0	2.74	1.70	1.53	330.0	1.50	1.38	1.33
1000.0	1040.0	1.83	1.57	1.45	1040.0	2.80	1.70	1.47	370.0	1.54	1.40	1.36
1060.0	1100.0	1.76	1.53	1.43	1100.0	2.88	1.72	1.43	410.0	1.54	1.40	1.36
1120.0	1160.0	1.65	1.42	1.34	1160.0	2.89	1.70	1.37	450.0	1.55	1.43	1.39
1180.0	1220.0	1.67	1.38	1.27	1220.0	2.97	1.71	1.31	490.0	1.55	1.42	1.38
1240.0	1280.0	1.91	1.59	1.44	1280.0	2.86	1.68	1.26	530.0	1.54	1.42	1.39
1300.0	1340.0	2.23	1.86	1.66	1340.0	2.91	1.67	1.21	570.0	1.54	1.42	1.39
1360.0	1400.0	2.39	1.96	1.75	1400.0	2.81	1.64	1.17	610.0	1.51	1.40	1.37
1420.0	1460.0	2.46	2.04	1.79	1460.0	2.66	1.58	1.11	650.0	1.51	1.40	1.38
1480.0	1520.0	2.53	2.10	1.84	1520.0	2.72	1.58	1.07	690.0	1.47	1.37	1.35
1540.0	1580.0	2.51	2.14	1.88	1580.0	2.53	1.52	1.03	730.0	1.44	1.35	1.35
1600.0	1640.0	2.46	2.14	1.91	1640.0	2.47	1.48	1.02	770.0	1.39	1.31	1.33
1660.0	1700.0	2.35	2.04	1.84	1700.0	2.40	1.45	1.07	810.0	1.33	1.27	1.32
1720.0	1760.0	2.26	1.96	1.79	1760.0	2.24	1.39	1.12	830.0	1.30	1.24	1.29
1780.0	1820.0	2.09	1.83	1.69	1820.0	2.18	1.36	1.18	870.0	1.23	1.20	1.29
1840.0	1880.0	1.97	1.69	1.58	1880.0	2.08	1.34	1.23	890.0	1.20	1.21	1.32
1900.0	1940.0	1.85	1.58	1.48	1940.0	1.95	1.31	1.29	930.0	1.15	1.22	1.36
1960.0	2000.0	1.70	1.44	1.34	2000.0	1.92	1.31	1.34	950.0	1.07	1.31	1.32
2020.0	2060.0	1.57	1.35	1.27	2060.0	1.77	1.27	1.38	990.0	1.10	1.30	1.48
2080.0	2120.0	1.43	1.25	1.25	2120.0	1.67	1.26	1.42	1010.0	1.11	1.32	1.50
2140.0	2180.0	1.32	1.18	1.26	2180.0	1.59	1.24	1.47	1050.0	1.19	1.44	1.64
2200.0	2240.0	1.23	1.20	1.34	2240.0	1.47	1.24	1.51	1070.0	1.27	1.53	1.74
2260.0	2300.0	1.16	1.28	1.44	2300.0	1.42	1.25	1.55	1110.0	1.39	1.67	1.90
2320.0	2360.0	1.20	1.41	1.60	2360.0	1.34	1.26	1.60	1130.0	1.43	1.72	1.95
2360.0	2400.0	1.30	1.54	1.75	2400.0	1.30	1.27	1.62	1170.0	1.60	1.91	2.15
2420.0	2460.0	1.45	1.73	1.95	2460.0	1.23	1.29	1.68	1190.0	1.72	2.06	2.32
2460.0	2500.0	1.61	1.90	2.13	2500.0	1.19	1.30	1.68	1230.0	1.91	2.29	2.56
2520.0	2560.0	1.83	2.16	2.43	2560.0	1.13	1.33	1.74	1250.0	2.02	2.39	2.67
2560.0	2600.0	2.04	2.39	2.68	2600.0	1.09	1.34	1.74	1290.0	2.28	2.69	2.97
2620.0	2660.0	2.34	2.73	3.09	2660.0	1.03	1.37	1.79	1310.0	2.41	2.84	3.14
2660.0	2700.0	2.61	2.99	3.35	2700.0	1.02	1.38	1.78	1350.0	2.69	3.14	3.45
2720.0	2760.0	3.00	3.44	3.81	2760.0	1.07	1.42	1.83	1370.0	2.88	3.35	3.66



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RF/IF MICROWAVE COMPONENTS

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+0	15	14	35	38	30	34	39	44	59
1	-	20	+0	36	32	38	48	64	44	50	38	55
2	59	53	38	57	44	56	48	67	61	50	48	53
3	>90	71	69	76	53	73	65	79	62	>81	67	64
4	>90	>81	80	>81	72	>81	73	>81	74	>81	80	74
5	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
6	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
7	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
8	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
9	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
10	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1650 MHz; -1.00 dBm.
 LO IN: 1690 MHz; +17.00 dBm
 IF OUT: 40 MHz; -8.87 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	12	26	29	49	55	53	47	55	52	73
1	-	20	+0	37	31	43	56	85	62	55	56	74
2	40	44	29	49	33	53	42	62	63	61	55	62
3	73	48	45	58	35	55	50	60	61	77	79	62
4	>90	73	56	56	44	60	51	55	54	72	71	68
5	>90	79	71	68	72	65	51	76	79	86	65	87
6	>90	76	81	80	68	65	51	62	62	66	63	77
7	>90	74	81	>91	81	89	78	69	60	80	81	78
8	>90	84	79	84	>91	86	74	77	61	70	71	79
9	>90	90	84	81	88	>91	87	87	77	73	62	88
10	>90	>91	84	87	88	>91	>91	>91	83	>91	71	80
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1650 MHz; 9.00 dBm.
 LO IN: 1690 MHz; +17.00 dBm
 IF OUT: 40 MHz; 1.08 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.