

Frequency Mixer

MCA-ED12748/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=350MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
540.1	190.1	14.87	12.71	11.79
600.1	250.1	12.28	10.17	9.26
660.1	310.1	10.58	8.63	7.87
720.1	370.1	8.90	7.35	7.05
780.1	430.1	7.28	6.55	6.43
840.1	490.1	9.74	9.35	9.14
900.1	550.1	8.11	7.90	7.84
960.1	610.1	6.93	6.67	6.57
1020.1	670.1	6.35	6.12	6.07
1080.1	730.1	6.20	5.93	5.82
1140.1	790.1	6.60	6.23	6.07
1200.1	850.1	6.88	6.37	6.20
1260.1	910.1	7.38	6.92	6.77
1320.1	970.1	7.54	7.04	6.99
1380.1	1030.1	7.05	6.51	6.44
1440.1	1090.1	6.89	6.39	6.33
1500.1	1150.1	6.72	6.32	6.31
1560.1	1210.1	6.63	6.19	6.14
1620.1	1270.1	6.47	6.12	6.13
1680.1	1330.1	6.59	6.66	6.89
1740.1	1390.1	6.90	6.84	6.98
1810.1	1460.1	7.11	6.94	7.06
1870.1	1520.1	7.17	7.14	7.31
1940.1	1590.1	7.06	7.03	7.20
2000.1	1650.1	7.03	6.96	7.08
2070.1	1720.1	7.51	7.53	7.66
2130.1	1780.1	7.39	7.41	7.55
2200.1	1850.1	7.62	7.58	7.67
2260.1	1910.1	7.96	7.89	7.94
2330.1	1980.1	7.86	7.80	7.86
2390.1	2040.1	7.69	7.55	7.61
2460.1	2110.1	7.81	7.62	7.65
2520.1	2170.1	8.02	7.82	7.80
2590.1	2240.1	8.29	8.05	8.01
2650.1	2300.1	8.46	8.11	8.05
2720.1	2370.1	8.54	8.15	8.10
2780.1	2430.1	8.59	8.15	8.11
2850.1	2500.1	9.16	8.62	8.52
2910.1	2560.1	10.39	9.85	9.72
2980.1	2630.1	13.42	12.99	12.74

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
540.1	190.1	11.48	12.63	15.75
600.1	250.1	14.02	17.66	18.70
660.1	310.1	15.34	17.27	17.38
720.1	370.1	16.91	17.73	20.68
780.1	430.1	21.30	22.11	24.37
840.1	490.1	19.97	21.64	21.99
900.1	550.1	18.03	19.66	22.42
960.1	610.1	24.73	27.23	29.38
1020.1	670.1	29.76	32.55	32.95
1080.1	730.1	30.57	32.38	36.01
1140.1	790.1	27.53	32.32	36.85
1200.1	850.1	39.56	29.76	30.25
1260.1	910.1	27.69	29.75	28.66
1320.1	970.1	22.90	25.52	26.88
1380.1	1030.1	22.23	24.84	29.25
1440.1	1090.1	22.83	27.19	32.30
1500.1	1150.1	24.06	27.93	35.55
1560.1	1210.1	26.07	29.30	30.21
1620.1	1270.1	22.81	22.66	24.88
1680.1	1330.1	19.72	25.77	34.17
1740.1	1390.1	28.78	25.92	30.22
1810.1	1460.1	23.32	25.57	30.33
1870.1	1520.1	23.77	30.10	31.05
1940.1	1590.1	22.76	26.85	31.70
2000.1	1650.1	24.44	28.94	32.16
2070.1	1720.1	28.82	33.42	33.41
2130.1	1780.1	26.02	33.25	31.99
2200.1	1850.1	27.13	34.72	34.24
2260.1	1910.1	27.58	32.94	36.96
2330.1	1980.1	27.54	33.15	38.49
2390.1	2040.1	26.05	30.37	37.84
2460.1	2110.1	26.02	28.40	32.10
2520.1	2170.1	28.01	30.22	34.29
2590.1	2240.1	27.23	27.99	38.53
2650.1	2300.1	25.52	30.92	40.98
2720.1	2370.1	26.94	32.45	36.59
2780.1	2430.1	26.67	31.28	40.03
2850.1	2500.1	25.59	30.01	32.28
2910.1	2560.1	25.90	30.08	36.11
2980.1	2630.1	26.02	30.15	32.25

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+15dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
540.1	190.1	4.37	3.82	2.72
600.1	250.1	4.13	3.64	2.58
660.1	310.1	3.99	3.51	2.43
720.1	370.1	3.64	3.09	1.91
780.1	430.1	2.73	1.72	0.73
840.1	490.1	-0.09	-0.13	0.15
900.1	550.1	1.64	0.99	0.70
960.1	610.1	1.10	0.48	0.20
1020.1	670.1	0.19	0.13	0.07
1080.1	730.1	0.18	0.13	0.06
1140.1	790.1	0.12	0.09	0.02
1200.1	850.1	0.18	0.15	0.08
1260.1	910.1	0.24	0.10	0.04
1320.1	970.1	1.16	0.69	0.32
1380.1	1030.1	1.37	0.80	0.36
1440.1	1090.1	1.13	0.64	0.24
1500.1	1150.1	0.90	0.50	0.20
1560.1	1210.1	0.96	0.52	0.19
1620.1	1270.1	0.91	0.38	0.08
1680.1	1330.1	0.69	0.11	0.03
1740.1	1390.1	0.98	0.40	0.15
1810.1	1460.1	0.89	0.55	0.23
1870.1	1520.1	0.86	0.44	0.17
1940.1	1590.1	0.79	0.38	0.13
2000.1	1650.1	0.74	0.38	0.15
2070.1	1720.1	0.69	0.33	0.15
2130.1	1780.1	0.61	0.28	0.12
2200.1	1850.1	0.42	0.20	0.10
2260.1	1910.1	0.37	0.19	0.11
2330.1	1980.1	0.25	0.13	0.07
2390.1	2040.1	0.19	0.10	0.06
2460.1	2110.1	0.10	0.04	0.02
2520.1	2170.1	-0.03	-0.03	-0.01
2590.1	2240.1	0.03	0.10	0.09
2650.1	2300.1	0.39	0.21	0.08
2720.1	2370.1	0.45	0.19	0.08
2780.1	2430.1	0.39	0.19	0.08
2850.1	2500.1	0.33	0.19	0.09
2910.1	2560.1	0.24	0.14	0.08
2980.1	2630.1	0.13	0.10	0.05

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Frequency Mixer

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2600.1001MHz (dB)
		@LO (dBm)
		+17
2060.0	540.1	11.60
1957.5	642.6	12.21
1855.0	745.1	10.83
1752.5	847.6	10.18
1650.0	950.1	9.86
1547.5	1052.6	10.05
1445.0	1155.1	9.77
1342.5	1257.6	9.01
1240.0	1360.1	10.68
1137.5	1462.6	10.07
1035.0	1565.1	9.49
932.5	1667.6	9.33
830.0	1770.1	8.94
727.5	1872.6	8.82
625.0	1975.1	8.61
522.5	2077.6	8.30
420.0	2180.1	8.02
317.5	2282.6	7.90
215.0	2385.1	7.78
112.5	2487.6	8.93
10.0	2590.1	23.96
22.3	2622.4	17.42
40.8	2640.9	13.34
59.3	2659.4	11.47
77.8	2677.9	10.49
96.3	2696.4	9.83
114.8	2714.9	9.45
133.3	2733.4	9.23
151.8	2751.9	9.11
170.3	2770.4	9.07
188.8	2788.9	9.03
207.3	2807.4	9.00
232.0	2832.1	8.97
250.5	2850.6	8.99
275.2	2875.3	9.05
293.7	2893.8	9.13
318.3	2918.4	9.61
336.8	2936.9	10.15
361.5	2961.6	10.37
380.0	2980.1	10.18

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2500.1001MHz (dB)
		@LO (dBm)
		+17
10.0	2510.1	23.62
20.0	2520.1	17.82
30.0	2530.1	14.86
40.0	2540.1	12.96
50.0	2550.1	11.76
60.0	2560.1	10.93
70.0	2570.1	10.39
80.0	2580.1	10.03
90.0	2590.1	9.76
100.0	2600.1	9.46
110.0	2610.1	9.26
120.0	2620.1	9.13
130.0	2630.1	9.03
140.0	2640.1	8.91
150.0	2650.1	8.83
160.0	2660.1	8.79
170.0	2670.1	8.76
180.0	2680.1	8.70
190.0	2690.1	8.65
200.0	2700.1	8.63
210.0	2710.1	8.61
220.0	2720.1	8.62
230.0	2730.1	8.63
240.0	2740.1	8.66
260.0	2760.1	8.65
270.0	2770.1	8.61
290.0	2790.1	8.52
300.0	2800.1	8.50
320.0	2820.1	8.45
330.0	2830.1	8.48
350.0	2850.1	8.58
360.0	2860.1	8.65
380.0	2880.1	8.79
390.0	2890.1	8.88
410.0	2910.1	9.33
420.0	2920.1	9.76
440.0	2940.1	10.43
450.0	2950.1	10.63
470.0	2970.1	10.65
480.0	2980.1	10.44

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2700.1001MHz (dB)
		@LO (dBm)
		+17
2170.0	530.1	11.66
2110.0	590.1	10.77
2050.0	650.1	10.90
1990.0	710.1	11.76
1930.0	770.1	12.02
1870.0	830.1	11.30
1810.0	890.1	11.07
1750.0	950.1	10.33
1690.0	1010.1	10.30
1630.0	1070.1	10.47
1570.0	1130.1	10.38
1510.0	1190.1	10.19
1450.0	1250.1	9.49
1390.0	1310.1	8.94
1330.0	1370.1	9.99
1270.0	1430.1	11.17
1210.0	1490.1	10.38
1150.0	1550.1	9.87
1090.0	1610.1	9.57
1030.0	1670.1	9.34
970.0	1730.1	9.14
910.0	1790.1	9.06
870.0	1830.1	8.86
810.0	1890.1	8.74
770.0	1930.1	8.72
710.0	1990.1	8.55
670.0	2030.1	8.51
610.0	2090.1	8.49
570.0	2130.1	8.44
510.0	2190.1	8.40
470.0	2230.1	8.52
410.0	2290.1	8.25
370.0	2330.1	8.02
310.0	2390.1	7.98
270.0	2430.1	7.93
210.0	2490.1	8.37
170.0	2530.1	8.66
110.0	2590.1	9.61
70.0	2630.1	10.88
10.0	2690.1	24.20

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Frequency Mixer

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+14	+17	+20	+14	+17	+20
190.1	64.14	60.61	59.45	60.65	58.41	58.08
250.1	55.04	52.06	51.90	50.68	49.91	50.23
310.1	46.80	44.97	45.53	45.48	44.89	45.03
370.1	41.50	40.99	42.47	40.78	40.13	40.43
430.1	37.20	37.07	37.55	34.84	34.43	34.32
490.1	39.91	39.85	41.49	35.84	36.85	37.43
550.1	34.87	34.71	35.68	32.51	33.15	33.70
610.1	29.98	29.64	29.72	28.13	28.54	28.91
670.1	27.29	27.06	26.65	25.82	26.28	26.54
730.1	28.18	28.03	28.11	25.83	26.32	26.70
790.1	30.42	30.21	30.91	26.70	27.12	27.62
850.1	32.47	32.21	33.87	27.72	28.01	28.66
910.1	35.52	35.47	38.08	29.00	29.47	30.24
970.1	38.80	37.81	38.01	30.32	30.94	31.44
1030.1	43.12	42.12	42.22	30.71	31.25	31.78
1090.1	47.10	45.96	47.06	31.32	31.92	32.33
1150.1	48.28	46.47	48.55	32.01	32.62	33.04
1210.1	48.80	45.65	46.69	32.55	33.15	33.36
1270.1	49.22	44.36	42.72	35.07	35.75	36.27
1330.1	52.93	64.91	71.25	37.93	38.34	40.07
1390.1	44.06	43.65	45.72	38.98	38.86	39.98
1460.1	35.80	34.12	34.36	36.30	35.35	35.74
1520.1	40.27	39.34	39.68	35.61	35.35	36.07
1590.1	42.99	41.98	41.98	37.52	37.36	37.40
1650.1	40.81	39.92	39.88	32.82	32.19	31.64
1720.1	47.93	47.10	47.32	33.15	32.92	32.52
1780.1	45.16	44.42	42.58	32.38	32.24	31.78
1850.1	42.42	41.88	40.31	30.12	29.63	29.24
1910.1	41.02	40.61	39.39	28.57	27.97	27.58
1980.1	40.82	40.63	40.21	28.35	28.07	27.87
2040.1	41.05	40.73	40.74	28.69	28.43	28.53
2110.1	40.20	39.65	39.63	29.22	28.90	29.05
2170.1	38.23	37.57	37.63	30.79	30.71	31.07
2240.1	35.99	36.22	37.73	41.82	45.02	48.52
2300.1	43.77	43.85	46.16	44.34	43.09	38.96
2370.1	54.16	51.92	51.32	39.57	38.58	37.27
2430.1	54.50	49.99	50.36	39.58	38.57	37.90
2500.1	45.05	42.40	44.54	38.72	38.95	38.52
2560.1	39.16	37.91	40.29	33.69	33.12	34.24
2630.1	38.89	38.53	41.83	31.43	30.72	31.03

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
540.1	190.1	25.62	24.26	30.99
600.1	250.1	25.85	24.16	35.97
660.1	310.1	25.80	25.59	32.57
720.1	370.1	27.83	28.51	32.34
780.1	430.1	31.12	31.43	34.84
840.1	490.1	24.09	26.00	25.33
900.1	550.1	29.41	30.86	25.29
960.1	610.1	39.75	40.82	31.69
1020.1	670.1	33.76	35.60	37.34
1080.1	730.1	31.94	33.59	44.79
1140.1	790.1	27.20	27.85	37.63
1200.1	850.1	23.41	23.76	32.38
1260.1	910.1	17.82	18.06	21.70
1320.1	970.1	18.58	18.68	17.52
1380.1	1030.1	24.66	24.76	20.84
1440.1	1090.1	30.37	31.03	24.35
1500.1	1150.1	38.26	39.08	24.49
1560.1	1210.1	49.24	59.49	26.56
1620.1	1270.1	39.90	38.23	27.32
1680.1	1330.1	34.35	31.66	31.22
1740.1	1390.1	52.79	52.26	24.50
1810.1	1460.1	31.09	30.38	21.84
1870.1	1520.1	28.87	28.17	22.96
1940.1	1590.1	30.13	28.88	24.69
2000.1	1650.1	33.80	32.52	26.04
2070.1	1720.1	32.92	33.33	23.67
2130.1	1780.1	31.40	31.89	23.15
2200.1	1850.1	28.40	28.87	22.84
2260.1	1910.1	26.51	26.73	22.53
2330.1	1980.1	26.23	26.72	23.05
2390.1	2040.1	25.94	26.57	23.01
2460.1	2110.1	26.45	27.24	23.98
2520.1	2170.1	26.85	27.86	24.68
2590.1	2240.1	27.18	27.57	23.51
2650.1	2300.1	27.92	28.85	24.03
2720.1	2370.1	29.36	29.72	26.47
2780.1	2430.1	28.62	28.58	29.94
2850.1	2500.1	24.77	25.02	31.85
2910.1	2560.1	17.62	17.92	20.32
2980.1	2630.1	11.22	11.33	12.10

Frequency Mixer

MCA-ED12748/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)				IF (OUT) (MHz)	IF VSWR @LO=2350MHz (:1)			
		@LO (dBm)				@LO (dBm)					@LO (dBm)			
		+14	+17	+20		+14	+17	+20	+14		+17	+20		
540.1	190.1	4.32	3.65	3.43	190.1	45.72	46.96	46.96	10.0	45.72	44.55	46.96		
600.1	250.1	4.01	3.27	2.97	250.1	579.06	868.59	868.59	60.0	5.49	5.12	5.02		
660.1	310.1	3.85	3.11	2.82	310.1	248.17	217.15	217.15	110.0	2.44	2.39	2.41		
720.1	370.1	3.58	2.96	2.84	370.1	66.82	64.35	64.35	160.0	1.64	1.72	1.76		
780.1	430.1	3.29	2.98	2.95	430.1	45.72	43.44	42.38	210.0	1.31	1.48	1.53		
840.1	490.1	2.27	1.88	1.84	490.1	26.33	25.94	25.56	260.0	1.27	1.47	1.52		
900.1	550.1	2.24	2.00	1.95	550.1	17.39	17.22	16.89	310.0	1.38	1.56	1.60		
960.1	610.1	2.20	2.03	1.95	610.1	8.20	8.08	7.83	360.0	1.53	1.67	1.70		
1020.1	670.1	1.91	1.79	1.71	670.1	4.48	4.47	4.33	410.0	1.67	1.78	1.81		
1080.1	730.1	1.84	1.67	1.57	730.1	6.63	6.71	6.71	460.0	1.84	1.91	1.92		
1140.1	790.1	2.13	1.95	1.89	790.1	11.61	11.69	11.61	510.0	1.96	1.99	1.99		
1200.1	850.1	2.26	2.04	1.99	850.1	16.56	16.72	16.72	560.0	2.14	2.15	2.15		
1260.1	910.1	1.91	1.71	1.66	910.1	20.45	20.45	19.98	610.0	2.20	2.22	2.20		
1320.1	970.1	2.16	1.91	1.88	970.1	22.58	22.29	21.46	660.0	2.15	2.15	2.14		
1380.1	1030.1	2.16	1.87	1.84	1030.1	24.14	24.14	23.49	710.0	2.00	1.95	1.95		
1440.1	1090.1	1.97	1.71	1.70	1090.1	23.81	23.49	22.29	760.0	1.98	1.88	1.88		
1500.1	1150.1	1.78	1.53	1.52	1150.1	23.49	23.18	22.29	810.0	1.92	1.77	1.77		
1560.1	1210.1	1.68	1.46	1.44	1210.1	22.00	21.73	20.70	860.0	1.91	1.74	1.73		
1620.1	1270.1	1.55	1.37	1.34	1270.1	19.32	18.11	16.72	910.0	2.01	1.81	1.77		
1680.1	1330.1	1.37	1.12	1.10	1330.1	17.93	17.05	16.56	960.0	2.18	1.96	1.90		
1740.1	1390.1	1.17	1.06	1.08	1390.1	18.30	17.93	17.05	1010.0	2.29	2.06	2.00		
1810.1	1460.1	1.13	1.24	1.25	1460.1	16.89	16.11	15.13	1060.0	2.40	2.18	2.13		
1870.1	1520.1	1.32	1.46	1.46	1520.1	17.75	17.39	16.72	1110.0	2.32	2.17	2.12		
1940.1	1590.1	1.49	1.62	1.59	1590.1	15.96	15.53	14.62	1160.0	2.14	2.05	2.02		
2000.1	1650.1	1.66	1.76	1.73	1650.1	13.70	13.29	12.44	1210.0	1.93	1.87	1.86		
2070.1	1720.1	1.89	2.00	1.96	1720.1	13.19	12.80	12.26	1260.0	1.69	1.68	1.70		
2130.1	1780.1	2.13	2.22	2.18	1780.1	11.85	11.61	11.09	1310.0	1.35	1.33	1.34		
2200.1	1850.1	2.35	2.44	2.39	1850.1	10.02	9.74	9.28	1360.0	1.50	1.41	1.39		
2260.1	1910.1	2.49	2.56	2.53	1910.1	8.99	8.81	8.51	1410.0	1.53	1.42	1.40		
2330.1	1980.1	2.62	2.67	2.65	1980.1	7.83	7.76	7.63	1460.0	1.61	1.50	1.48		
2390.1	2040.1	2.71	2.72	2.68	2040.1	6.76	6.68	6.49	1500.0	1.65	1.53	1.51		
2460.1	2110.1	2.77	2.73	2.68	2110.1	5.83	5.75	5.59	1550.0	1.67	1.53	1.51		
2520.1	2170.1	2.89	2.79	2.74	2170.1	5.10	5.00	4.92	1590.0	1.80	1.64	1.62		
2590.1	2240.1	2.78	2.56	2.47	2240.1	4.34	4.33	4.27	1640.0	1.91	1.75	1.72		
2650.1	2300.1	2.69	2.53	2.47	2300.1	5.07	5.13	4.99	1680.0	2.08	1.91	1.87		
2720.1	2370.1	2.85	2.68	2.66	2370.1	5.91	5.93	5.83	1730.0	2.39	2.22	2.16		
2780.1	2430.1	2.86	2.67	2.65	2430.1	6.51	6.53	6.44	1770.0	2.60	2.44	2.38		
2850.1	2500.1	2.61	2.43	2.40	2500.1	7.25	7.20	6.94	1820.0	2.95	2.82	2.73		
2910.1	2560.1	1.99	1.87	1.83	2560.1	7.47	7.41	7.25	1860.0	3.23	3.15	3.06		
2980.1	2630.1	1.15	1.12	1.13	2630.1	7.97	7.97	7.94	1910.0	3.52	3.52	3.43		

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	5	16	16	25	28	21	34	35	57	52
1	-	14	+0	31	18	34	32	47	43	45	59	67
2	62	44	60	>81	53	66	58	55	73	68	59	73
3	>90	69	61	71	66	66	64	>81	64	78	>81	77
4	>90	>81	>81	>81	>81	>81	81	>81	>81	>81	>81	>81
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	---	---	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

Test conditions:

RF IN: 2600 MHz; 0.00 dBm.
LO IN: 2150 MHz; +17.00 dBm
IF OUT: 450 MHz; -8.59 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	15	26	26	34	38	32	47	45	68	62
1	-	14	+0	31	18	36	33	48	43	49	60	74
2	43	35	52	47	48	67	56	49	61	64	52	61
3	67	53	42	61	47	54	50	71	52	62	73	61
4	>90	74	74	69	67	57	60	59	61	63	>91	79
5	>90	75	78	79	72	70	86	66	63	71	65	79
6	>90	>91	84	80	>91	73	80	74	70	71	75	79
7	>90	>91	>91	91	>91	>91	90	77	82	85	72	81
8	>90	>91	>91	>91	>91	>91	>91	>91	90	87	79	82
9	>90	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91	89
10	---	---	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions:

RF IN: 2600 MHz; 10.00 dBm.
LO IN: 2150 MHz; +17.00 dBm
IF OUT: 450 MHz; 1.34 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.