

Frequency Mixer

HJK-ED12869/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=240MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
1040.1	800.1	12.17	10.95	9.98
1120.1	880.1	11.45	10.48	9.82
1200.1	960.1	11.15	10.30	9.68
1280.1	1040.1	10.98	10.24	9.67
1360.1	1120.1	10.65	10.01	9.55
1440.1	1200.1	10.26	9.67	9.26
1520.1	1280.1	9.88	9.32	8.95
1600.1	1360.1	9.64	9.15	8.81
1680.1	1440.1	9.96	9.44	9.06
1760.1	1520.1	10.03	9.64	9.36
1840.1	1600.1	9.50	9.18	8.96
1920.1	1680.1	8.49	8.26	8.12
2000.1	1760.1	8.04	7.85	7.73
2080.1	1840.1	7.84	7.66	7.55
2160.1	1920.1	8.02	7.95	7.93
2240.1	2000.1	7.60	7.47	7.40
2320.1	2080.1	7.47	7.33	7.23
2400.1	2160.1	7.56	7.45	7.41
2480.1	2240.1	7.64	7.53	7.49
2560.1	2320.1	7.77	7.67	7.64
2640.1	2400.1	7.83	7.71	7.65
2720.1	2480.1	7.97	7.83	7.74
2800.1	2560.1	8.19	8.06	7.97
2900.1	2660.1	8.38	8.30	8.26
2980.1	2740.1	8.47	8.38	8.32
3080.1	2840.1	8.65	8.60	8.56
3160.1	2920.1	8.83	8.83	8.85
3260.1	3020.1	8.84	8.83	8.88
3340.1	3100.1	9.04	8.99	8.99
3440.1	3200.1	9.28	9.22	9.24
3520.1	3280.1	9.59	9.50	9.50
3620.1	3380.1	9.82	9.73	9.76
3700.1	3460.1	9.93	9.75	9.73
3800.1	3560.1	10.08	9.75	9.59
3880.1	3640.1	10.32	9.90	9.68
3980.1	3740.1	10.57	10.10	9.84
4060.1	3820.1	10.63	10.12	9.84
4160.1	3920.1	10.78	10.19	9.83
4240.1	4000.1	10.84	10.19	9.83
4340.1	4100.1	11.07	10.37	9.96

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
1040.1	800.1	12.21	13.60	14.08
1120.1	880.1	12.46	14.58	15.96
1200.1	960.1	13.29	15.16	16.30
1280.1	1040.1	14.82	16.48	17.15
1360.1	1120.1	15.52	17.61	18.64
1440.1	1200.1	16.16	18.80	21.18
1520.1	1280.1	15.75	19.54	26.40
1600.1	1360.1	16.37	20.92	24.70
1680.1	1440.1	16.36	17.04	18.04
1760.1	1520.1	20.11	22.47	25.05
1840.1	1600.1	21.36	23.89	26.88
1920.1	1680.1	23.30	27.17	31.08
2000.1	1760.1	24.33	26.65	28.59
2080.1	1840.1	25.61	27.52	29.99
2160.1	1920.1	27.51	31.67	36.61
2240.1	2000.1	27.77	31.83	36.75
2320.1	2080.1	26.88	30.98	35.83
2400.1	2160.1	26.19	30.93	36.91
2480.1	2240.1	26.24	31.21	37.87
2560.1	2320.1	26.84	31.86	39.83
2640.1	2400.1	27.17	33.04	40.98
2720.1	2480.1	27.55	33.46	41.13
2800.1	2560.1	28.18	33.70	41.01
2900.1	2660.1	28.62	33.74	40.87
2980.1	2740.1	28.52	32.74	40.84
3080.1	2840.1	28.62	31.54	38.43
3160.1	2920.1	29.53	33.47	40.45
3260.1	3020.1	28.12	32.14	36.89
3340.1	3100.1	27.06	30.61	34.34
3440.1	3200.1	25.88	29.89	35.22
3520.1	3280.1	24.96	28.72	33.74
3620.1	3380.1	23.01	27.52	33.69
3700.1	3460.1	20.39	23.96	28.44
3800.1	3560.1	19.18	22.26	25.88
3880.1	3640.1	18.88	22.18	25.06
3980.1	3740.1	18.19	21.86	25.31
4060.1	3820.1	18.08	21.79	25.59
4160.1	3920.1	16.99	20.87	25.14
4240.1	4000.1	16.29	20.14	24.24
4340.1	4100.1	15.22	18.80	22.98

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+15dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
1040.1	800.1	7.61	5.97	4.36
1120.1	880.1	7.27	5.42	3.51
1200.1	960.1	6.61	4.76	2.94
1280.1	1040.1	5.63	3.78	2.17
1360.1	1120.1	4.70	2.90	1.63
1440.1	1200.1	3.97	2.43	1.55
1520.1	1280.1	3.95	2.58	1.64
1600.1	1360.1	2.83	2.17	1.43
1680.1	1440.1	2.23	1.83	1.38
1760.1	1520.1	0.99	0.75	0.50
1840.1	1600.1	0.95	0.70	0.45
1920.1	1680.1	1.04	0.62	0.26
2000.1	1760.1	0.68	0.35	0.19
2080.1	1840.1	0.61	0.32	0.21
2160.1	1920.1	0.46	0.20	0.09
2240.1	2000.1	0.39	0.18	0.09
2320.1	2080.1	0.35	0.16	0.08
2400.1	2160.1	0.35	0.17	0.07
2480.1	2240.1	0.31	0.16	0.07
2560.1	2320.1	0.27	0.14	0.06
2640.1	2400.1	0.25	0.12	0.06
2720.1	2480.1	0.21	0.10	0.04
2800.1	2560.1	0.19	0.09	0.04
2900.1	2660.1	0.22	0.11	0.04
2980.1	2740.1	0.23	0.13	0.06
3080.1	2840.1	0.26	0.14	0.07
3160.1	2920.1	0.35	0.17	0.08
3260.1	3020.1	0.54	0.25	0.11
3340.1	3100.1	0.67	0.32	0.14
3440.1	3200.1	0.88	0.40	0.17
3520.1	3280.1	1.09	0.48	0.19
3620.1	3380.1	1.69	0.76	0.26
3700.1	3460.1	2.33	1.23	0.54
3800.1	3560.1	2.71	1.46	0.76
3880.1	3640.1	2.94	1.58	0.86
3980.1	3740.1	3.43	1.92	0.98
4060.1	3820.1	3.45	1.93	0.96
4160.1	3920.1	4.10	2.48	1.24
4240.1	4000.1	4.42	2.72	1.38
4340.1	4100.1	4.97	3.29	1.82

REV. X2

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2590.1001MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2480.1001MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2700.1001MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
950.0	1640.1	11.05	10.0	2490.1	7.49	990.0	1710.1	10.74
907.3	1682.8	10.12	30.0	2510.1	7.56	960.0	1740.1	10.41
864.5	1725.6	9.50	50.0	2530.1	7.55	940.0	1760.1	10.13
821.8	1768.3	9.10	70.0	2550.1	7.57	910.0	1790.1	9.97
779.1	1811.0	8.89	90.0	2570.1	7.58	890.0	1810.1	9.76
736.4	1853.7	8.63	110.0	2590.1	7.60	860.0	1840.1	9.59
693.6	1896.5	8.57	130.0	2610.1	7.55	840.0	1860.1	9.61
650.9	1939.2	8.23	150.0	2630.1	7.61	810.0	1890.1	9.67
608.2	1981.9	7.98	170.0	2650.1	7.61	790.0	1910.1	9.48
565.5	2024.6	7.83	190.0	2670.1	7.66	760.0	1940.1	9.19
522.7	2067.4	7.75	210.0	2690.1	7.65	740.0	1960.1	8.98
480.0	2110.1	7.67	230.0	2710.1	7.65	710.0	1990.1	8.80
437.3	2152.8	7.60	250.0	2730.1	7.68	690.0	2010.1	8.62
394.5	2195.6	7.54	270.0	2750.1	7.63	660.0	2040.1	8.35
351.8	2238.3	7.59	290.0	2770.1	7.68	640.0	2060.1	8.34
309.1	2281.0	7.63	310.0	2790.1	7.62	610.0	2090.1	8.21
266.4	2323.7	7.72	330.0	2810.1	7.65	590.0	2110.1	8.14
202.3	2387.8	7.68	360.0	2840.1	7.61	560.0	2140.1	8.02
159.5	2430.6	7.64	380.0	2860.1	7.70	540.0	2160.1	7.93
95.5	2494.6	7.72	410.0	2890.1	7.69	510.0	2190.1	7.80
52.7	2537.4	7.72	430.0	2910.1	7.77	490.0	2210.1	7.75
10.0	2600.1	7.72	460.0	2940.1	7.78	460.0	2240.1	7.70
47.3	2637.4	7.81	480.0	2960.1	7.89	440.0	2260.1	7.70
103.3	2693.4	7.88	510.0	2990.1	7.95	410.0	2290.1	7.68
140.7	2730.8	7.86	530.0	3010.1	8.06	390.0	2310.1	7.71
196.7	2786.8	7.86	560.0	3040.1	8.22	360.0	2340.1	7.68
234.0	2824.1	7.87	580.0	3060.1	8.35	340.0	2360.1	7.74
290.0	2880.1	7.88	610.0	3090.1	8.52	310.0	2390.1	7.67
327.3	2917.4	7.87	630.0	3110.1	8.64	290.0	2410.1	7.75
383.3	2973.4	7.92	660.0	3140.1	8.90	260.0	2440.1	7.72
420.7	3010.8	8.01	680.0	3160.1	9.07	240.0	2460.1	7.80
476.7	3066.8	8.17	710.0	3190.1	9.33	210.0	2490.1	7.80
514.0	3104.1	8.28	730.0	3210.1	9.43	190.0	2510.1	7.86
570.0	3160.1	8.58	760.0	3240.1	9.68	160.0	2540.1	7.81
607.3	3197.4	8.74	780.0	3260.1	9.85	140.0	2560.1	7.89
663.3	3253.4	9.02	810.0	3290.1	10.08	110.0	2590.1	7.90
700.7	3290.8	9.25	830.0	3310.1	10.32	90.0	2610.1	7.99
756.7	3346.8	9.74	860.0	3340.1	10.66	60.0	2640.1	7.94
794.0	3384.1	10.11	880.0	3360.1	10.93	40.0	2660.1	7.92
850.0	3440.1	10.57	910.0	3390.1	11.17	10.0	2690.1	7.81

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+14	+17	+20	+14	+17	+20
800.1	49.13	48.81	48.50	44.23	44.52	44.85
880.1	48.28	48.02	47.88	44.94	45.37	45.84
960.1	48.33	48.07	47.84	45.82	46.43	47.01
1040.1	48.54	48.29	48.08	47.61	48.37	49.05
1120.1	49.49	49.18	48.90	51.72	53.27	55.07
1200.1	50.72	50.44	50.04	64.41	69.07	65.41
1280.1	46.70	46.22	45.71	55.21	53.41	51.58
1360.1	47.71	47.12	46.47	46.17	45.31	44.39
1440.1	50.12	49.37	48.38	40.08	39.56	38.98
1520.1	42.73	42.34	41.81	35.97	35.86	35.76
1600.1	46.32	48.20	49.48	37.91	38.10	38.24
1680.1	39.97	40.77	41.64	43.74	43.76	43.87
1760.1	33.13	33.24	33.23	44.47	44.29	44.19
1840.1	32.24	31.91	31.54	40.03	40.01	40.24
1920.1	37.19	38.48	39.22	37.10	37.11	37.07
2000.1	33.80	34.57	35.23	35.23	35.26	35.38
2080.1	33.33	34.21	34.95	34.41	34.52	34.64
2160.1	33.79	34.83	35.91	34.20	34.32	34.55
2240.1	35.66	37.01	38.29	34.65	34.84	34.87
2320.1	37.42	39.22	41.18	35.52	35.92	36.10
2400.1	38.82	40.49	42.35	37.19	37.42	37.83
2480.1	40.08	41.75	43.40	39.45	39.62	40.04
2560.1	40.22	41.46	42.34	41.11	40.85	40.78
2660.1	39.97	40.53	40.74	38.45	37.85	37.53
2740.1	40.40	40.88	40.88	34.99	34.75	34.27
2840.1	43.19	43.76	44.22	31.90	31.86	31.68
2920.1	42.92	42.24	41.13	30.41	30.49	30.32
3020.1	47.86	45.42	43.25	29.47	29.76	29.79
3100.1	47.01	44.88	43.01	30.85	31.12	31.25
3200.1	48.85	46.68	44.65	31.24	31.59	31.70
3280.1	48.65	46.72	44.80	30.67	30.99	31.10
3380.1	45.82	44.78	43.32	30.36	30.66	30.79
3460.1	44.08	43.31	42.18	30.52	30.79	30.90
3560.1	42.29	41.53	40.54	31.54	31.78	31.89
3640.1	41.77	40.73	39.94	33.78	33.86	34.24
3740.1	40.35	39.89	39.49	40.08	39.56	39.28
3820.1	38.58	38.47	38.20	33.66	32.82	32.25
3920.1	39.41	39.67	39.94	30.23	29.62	29.37
4000.1	39.86	40.30	40.72	29.22	28.81	28.70
4100.1	40.55	41.12	41.63	28.74	28.61	28.59

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
1040.1	800.1	39.96	35.17	34.03
1120.1	880.1	36.74	34.96	36.66
1200.1	960.1	34.79	34.15	35.31
1280.1	1040.1	35.07	35.57	37.67
1360.1	1120.1	34.58	35.18	37.35
1440.1	1200.1	32.28	32.24	32.69
1520.1	1280.1	30.46	30.19	30.16
1600.1	1360.1	29.08	29.01	29.13
1680.1	1440.1	29.93	29.91	30.26
1760.1	1520.1	33.20	33.70	34.23
1840.1	1600.1	35.20	35.34	35.50
1920.1	1680.1	36.58	36.76	36.98
2000.1	1760.1	37.24	37.59	37.97
2080.1	1840.1	36.92	37.27	37.74
2160.1	1920.1	38.38	38.84	39.27
2240.1	2000.1	38.00	38.36	38.66
2320.1	2080.1	38.33	38.63	38.87
2400.1	2160.1	38.77	38.95	39.11
2480.1	2240.1	39.29	39.24	39.14
2560.1	2320.1	39.23	38.93	38.62
2640.1	2400.1	38.63	38.14	37.74
2720.1	2480.1	37.69	37.08	36.59
2800.1	2560.1	37.14	36.58	36.08
2900.1	2660.1	35.98	35.62	35.27
2980.1	2740.1	35.06	34.88	34.74
3080.1	2840.1	35.32	35.38	35.44
3160.1	2920.1	34.49	34.48	34.50
3260.1	3020.1	32.41	32.33	32.23
3340.1	3100.1	31.57	31.32	31.05
3440.1	3200.1	30.12	29.75	29.31
3520.1	3280.1	28.21	27.88	27.45
3620.1	3380.1	26.29	26.09	25.78
3700.1	3460.1	25.47	25.45	25.27
3800.1	3560.1	25.92	25.79	25.54
3880.1	3640.1	25.13	24.82	24.48
3980.1	3740.1	24.54	24.28	23.93
4060.1	3820.1	23.45	23.36	23.28
4160.1	3920.1	23.32	23.45	23.54
4240.1	4000.1	23.45	23.71	23.98
4340.1	4100.1	23.40	23.81	24.19

Frequency Mixer

HJK-ED12869/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=2450.1001MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
1040.1	800.1	2.77	2.91	3.08	800.1	4.29	4.29	4.28	10.1	1.79	1.90	2.01
1120.1	880.1	3.03	3.16	3.31	880.1	4.28	4.27	4.26	30.1	1.82	1.95	2.05
1200.1	960.1	3.23	3.35	3.50	960.1	4.25	4.25	4.23	50.1	1.79	1.91	2.02
1280.1	1040.1	3.32	3.42	3.54	1040.1	4.22	4.21	4.20	70.1	1.78	1.90	2.00
1360.1	1120.1	3.36	3.45	3.56	1120.1	4.17	4.17	4.17	90.1	1.75	1.87	1.97
1440.1	1200.1	3.31	3.40	3.48	1200.1	4.10	4.10	4.09	110.1	1.74	1.85	1.95
1520.1	1280.1	3.13	3.19	3.25	1280.1	4.03	4.02	4.01	130.1	1.75	1.86	1.96
1600.1	1360.1	2.94	2.95	2.97	1360.1	3.98	3.95	3.91	150.1	1.70	1.81	1.91
1680.1	1440.1	2.57	2.57	2.57	1440.1	3.86	3.82	3.76	170.1	1.66	1.77	1.86
1760.1	1520.1	2.07	2.08	2.12	1520.1	3.66	3.64	3.61	190.1	1.63	1.74	1.83
1840.1	1600.1	1.99	2.03	2.09	1600.1	3.73	3.73	3.73	210.1	1.60	1.71	1.80
1920.1	1680.1	2.06	2.07	2.11	1680.1	3.81	3.80	3.78	230.1	1.59	1.69	1.78
2000.1	1760.1	2.13	2.14	2.17	1760.1	3.58	3.55	3.52	250.1	1.53	1.63	1.72
2080.1	1840.1	1.95	1.95	1.95	1840.1	2.96	2.90	2.86	270.1	1.47	1.57	1.65
2160.1	1920.1	1.71	1.76	1.82	1920.1	2.92	2.87	2.83	290.1	1.45	1.54	1.62
2240.1	2000.1	1.63	1.64	1.67	2000.1	2.64	2.59	2.55	310.1	1.41	1.50	1.58
2320.1	2080.1	1.76	1.76	1.78	2080.1	2.40	2.36	2.33	330.1	1.38	1.47	1.55
2400.1	2160.1	1.88	1.90	1.95	2160.1	2.26	2.23	2.22	350.1	1.30	1.39	1.46
2480.1	2240.1	1.94	1.97	2.02	2240.1	2.21	2.20	2.20	370.1	1.25	1.32	1.39
2560.1	2320.1	1.99	2.03	2.08	2320.1	2.23	2.23	2.25	390.1	1.22	1.30	1.37
2640.1	2400.1	2.04	2.08	2.13	2400.1	2.29	2.30	2.32	410.1	1.19	1.26	1.33
2720.1	2480.1	2.12	2.17	2.21	2480.1	2.34	2.36	2.39	430.1	1.15	1.23	1.30
2800.1	2560.1	2.23	2.29	2.34	2560.1	2.34	2.36	2.39	450.1	1.10	1.17	1.23
2900.1	2660.1	2.33	2.42	2.50	2660.1	2.30	2.31	2.34	470.1	1.10	1.15	1.21
2980.1	2740.1	2.41	2.50	2.59	2740.1	2.23	2.25	2.27	490.1	1.12	1.17	1.22
3080.1	2840.1	2.48	2.59	2.70	2840.1	2.13	2.15	2.17	510.1	1.19	1.21	1.25
3160.1	2920.1	2.53	2.67	2.81	2920.1	2.17	2.20	2.23	530.1	1.27	1.28	1.31
3260.1	3020.1	2.56	2.71	2.86	3020.1	2.29	2.32	2.35	550.1	1.32	1.32	1.34
3340.1	3100.1	2.60	2.75	2.90	3100.1	2.42	2.45	2.48	570.1	1.39	1.39	1.41
3440.1	3200.1	2.67	2.82	2.99	3200.1	2.67	2.70	2.72	590.1	1.46	1.47	1.49
3520.1	3280.1	2.69	2.84	3.02	3280.1	2.89	2.91	2.92	610.1	1.59	1.59	1.61
3620.1	3380.1	2.64	2.79	2.97	3380.1	3.12	3.13	3.14	630.1	1.71	1.72	1.73
3700.1	3460.1	2.53	2.65	2.81	3460.1	3.28	3.27	3.26	650.1	1.80	1.80	1.82
3800.1	3560.1	2.46	2.54	2.66	3560.1	3.45	3.44	3.40	670.1	1.92	1.93	1.94
3880.1	3640.1	2.36	2.42	2.50	3640.1	3.50	3.47	3.40	690.1	2.04	2.06	2.08
3980.1	3740.1	2.20	2.22	2.28	3740.1	3.57	3.53	3.46	710.1	2.23	2.25	2.28
4060.1	3820.1	2.06	2.07	2.12	3820.1	3.61	3.58	3.52	730.1	2.40	2.42	2.45
4160.1	3920.1	1.91	1.91	1.95	3920.1	3.67	3.62	3.56	760.1	2.59	2.63	2.66
4240.1	4000.1	1.78	1.78	1.83	4000.1	3.74	3.73	3.70	780.1	2.77	2.82	2.86
4340.1	4100.1	1.62	1.64	1.70	4100.1	3.78	3.76	3.71	810.1	3.14	3.20	3.25

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	12	10	28	27	27	54	50	57	56	58
1	-	31	+0	46	33	45	32	46	40	49	75	65
2	62	64	75	58	73	67	68	72	75	68	78	78
3	>90	>82	>82	>82	76	>82	>82	>82	>82	>82	>82	>82
4	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
5	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
6	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
7	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
8	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
9	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
10	---	---	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2590 MHz; 0.00 dBm.
LO IN: 2350 MHz; +17.00 dBm
IF OUT: 240 MHz; -7.72 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	22	20	39	37	38	48	62	65	72	72
1	-	31	+0	46	33	45	33	46	40	51	75	67
2	42	53	61	47	65	55	62	61	73	67	73	71
3	67	78	63	85	47	72	61	81	63	66	64	64
4	>90	>92	69	80	76	76	77	76	85	78	77	72
5	>90	85	81	>92	89	89	75	89	83	>92	>92	>92
6	>90	90	87	>92	>92	>92	88	>92	>92	>92	>92	>92
7	>90	>92	>92	>92	90	>92	>92	>92	>92	87	>92	>92
8	>90	>92	>92	>92	>92	>92	>92	>92	>92	>92	86	>92
9	>90	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
10	---	---	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2590 MHz; 10.00 dBm.
LO IN: 2350 MHz; +17.00 dBm
IF OUT: 240 MHz; 2.21 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.