

Frequency Mixer

HJK-ED13133/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=45MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
680.0	635.0	10.98	10.84	7.95
760.0	715.0	9.51	8.96	7.40
840.0	795.0	8.61	8.01	7.10
920.0	875.0	8.09	7.56	7.01
1000.0	955.0	7.82	7.42	6.97
1080.0	1035.0	7.57	7.25	6.86
1160.0	1115.0	7.40	7.18	6.84
1240.0	1195.0	7.31	7.17	6.91
1320.0	1275.0	7.17	7.07	6.89
1400.0	1355.0	6.97	6.85	6.75
1480.0	1435.0	6.40	6.19	6.05
1560.0	1515.0	6.22	5.97	5.77
1640.0	1595.0	6.21	5.97	5.79
1720.0	1675.0	6.35	6.08	5.88
1800.0	1755.0	6.52	6.23	6.02
1880.0	1835.0	6.69	6.40	6.17
1960.0	1915.0	6.85	6.54	6.29
2040.0	1995.0	6.99	6.68	6.39
2120.0	2075.0	7.17	6.83	6.52
2200.0	2155.0	7.37	7.02	6.65
2280.0	2235.0	7.38	7.08	6.73
2360.0	2315.0	7.45	7.16	6.79
2440.0	2395.0	7.60	7.31	6.94
2520.0	2475.0	7.88	7.57	7.16
2600.0	2555.0	8.15	7.87	7.42
2660.0	2615.0	8.14	7.93	7.46
2740.0	2695.0	8.32	8.15	7.69
2800.0	2755.0	8.61	8.46	7.97
2880.0	2835.0	8.77	8.62	8.14
2940.0	2895.0	8.66	8.51	8.08
3020.0	2975.0	8.75	8.57	8.20
3080.0	3035.0	9.02	8.90	8.49
3160.0	3115.0	9.27	9.16	8.80
3220.0	3175.0	9.34	9.22	8.90
3300.0	3255.0	9.81	9.72	9.40
3360.0	3315.0	10.29	10.19	9.88
3440.0	3395.0	10.52	10.42	10.11
3500.0	3455.0	10.63	10.52	10.21
3580.0	3535.0	11.09	10.99	10.66
3640.0	3595.0	11.35	11.22	10.91

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
680.0	635.0	13.56	19.01	15.56
760.0	715.0	11.78	14.07	18.85
840.0	795.0	13.07	15.96	19.25
920.0	875.0	15.17	18.48	21.33
1000.0	955.0	16.89	19.51	21.88
1080.0	1035.0	18.60	20.84	23.02
1160.0	1115.0	21.30	23.52	25.73
1240.0	1195.0	24.24	26.97	29.83
1320.0	1275.0	28.91	33.31	37.08
1400.0	1355.0	31.40	35.17	41.51
1480.0	1435.0	33.13	36.42	38.03
1560.0	1515.0	33.21	36.81	37.69
1640.0	1595.0	29.32	31.46	34.02
1720.0	1675.0	26.41	29.52	32.48
1800.0	1755.0	25.43	29.00	32.31
1880.0	1835.0	24.67	28.08	31.87
1960.0	1915.0	23.37	26.60	29.86
2040.0	1995.0	22.10	25.11	27.86
2120.0	2075.0	21.29	24.34	26.76
2200.0	2155.0	20.87	24.06	26.64
2280.0	2235.0	21.05	24.21	27.20
2360.0	2315.0	21.24	24.33	27.93
2440.0	2395.0	21.42	24.68	28.34
2520.0	2475.0	21.23	24.77	28.61
2600.0	2555.0	20.95	24.60	28.79
2660.0	2615.0	21.64	25.17	29.80
2740.0	2695.0	21.83	25.62	30.58
2800.0	2755.0	21.59	25.33	30.24
2880.0	2835.0	21.82	25.98	28.85
2940.0	2895.0	22.08	26.27	30.53
3020.0	2975.0	22.28	26.61	30.79
3080.0	3035.0	22.03	25.68	30.20
3160.0	3115.0	22.41	25.92	30.04
3220.0	3175.0	22.68	26.07	29.31
3300.0	3255.0	23.18	26.49	29.53
3360.0	3315.0	23.46	26.83	29.30
3440.0	3395.0	24.09	27.29	29.59
3500.0	3455.0	24.49	27.68	29.96
3580.0	3535.0	24.89	28.12	29.97
3640.0	3595.0	25.71	29.26	30.84

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+20dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
680.0	635.0	9.15	9.07	7.24
760.0	715.0	8.67	8.76	6.94
840.0	795.0	7.40	7.32	5.47
920.0	875.0	6.98	6.30	4.20
1000.0	955.0	6.45	4.99	2.85
1080.0	1035.0	5.01	3.33	1.59
1160.0	1115.0	3.29	1.97	0.85
1240.0	1195.0	1.95	1.09	0.44
1320.0	1275.0	1.05	0.52	0.15
1400.0	1355.0	0.55	0.25	0.13
1480.0	1435.0	0.55	0.27	0.15
1560.0	1515.0	0.72	0.29	0.16
1640.0	1595.0	1.03	0.43	0.21
1720.0	1675.0	1.50	0.57	0.28
1800.0	1755.0	2.12	0.87	0.39
1880.0	1835.0	2.64	1.14	0.43
1960.0	1915.0	3.19	1.56	0.59
2040.0	1995.0	3.65	1.96	0.77
2120.0	2075.0	3.98	2.23	0.91
2200.0	2155.0	4.02	2.36	0.95
2280.0	2235.0	3.97	2.40	0.96
2360.0	2315.0	3.91	2.38	0.95
2440.0	2395.0	3.96	2.41	1.00
2520.0	2475.0	4.01	2.45	0.98
2600.0	2555.0	4.31	2.71	1.12
2660.0	2615.0	3.75	2.36	0.83
2740.0	2695.0	3.80	2.35	0.81
2800.0	2755.0	3.65	2.23	0.74
2880.0	2835.0	3.87	2.38	0.77
2940.0	2895.0	3.37	1.96	0.62
3020.0	2975.0	3.89	2.22	0.76
3080.0	3035.0	3.74	2.17	0.68
3160.0	3115.0	3.36	1.83	0.56
3220.0	3175.0	3.02	1.57	0.49
3300.0	3255.0	2.41	1.21	0.37
3360.0	3315.0	2.23	1.08	0.35
3440.0	3395.0	1.73	0.81	0.30
3500.0	3455.0	1.51	0.75	0.27
3580.0	3535.0	1.25	0.60	0.24
3640.0	3595.0	1.12	0.49	0.20

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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)=1520.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1280MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1760.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
660.0	860.1	11.12	10.1	1290.1	7.30	750.1	1010.0	11.23
622.9	897.2	10.59	30.1	1310.1	7.18	730.1	1030.0	11.05
585.7	934.4	10.39	50.1	1330.1	7.19	710.1	1050.0	10.88
548.6	971.5	10.16	70.1	1350.1	7.24	690.1	1070.0	10.68
511.4	1008.7	9.98	90.1	1370.1	7.27	670.1	1090.0	10.54
474.3	1045.8	9.73	110.1	1390.1	7.33	650.1	1110.0	10.34
437.1	1083.0	9.46	130.1	1410.1	7.43	630.1	1130.0	10.15
400.0	1120.1	9.15	150.1	1430.1	7.42	610.1	1150.0	9.90
362.9	1157.2	8.71	170.1	1450.1	7.39	590.1	1170.0	9.70
325.7	1194.4	8.39	190.1	1470.1	7.48	570.1	1190.0	9.43
288.6	1231.5	7.93	210.1	1490.1	7.49	550.1	1210.0	9.24
251.4	1268.7	7.57	230.1	1510.1	7.51	530.1	1230.0	8.92
214.3	1305.8	7.11	250.1	1530.1	7.48	510.1	1250.0	8.65
177.1	1343.0	6.70	270.1	1550.1	7.42	490.1	1270.0	8.37
140.0	1380.1	6.36	290.1	1570.1	7.39	470.1	1290.0	8.06
102.9	1417.2	6.10	310.1	1590.1	7.63	450.1	1310.0	7.75
65.7	1454.4	6.03	330.1	1610.1	7.85	430.1	1330.0	7.49
28.6	1491.5	6.26	350.1	1630.1	7.88	410.1	1350.0	7.44
10.0	1530.1	6.45	370.1	1650.1	7.91	390.1	1370.0	7.34
52.9	1573.0	6.15	390.1	1670.1	7.97	370.1	1390.0	7.02
95.7	1615.8	6.17	410.1	1690.1	7.95	350.1	1410.0	6.74
138.6	1658.7	6.22	430.1	1710.1	8.09	330.1	1430.0	6.54
181.4	1701.5	6.38	450.1	1730.1	8.11	310.1	1450.0	6.38
224.3	1744.4	6.51	470.1	1750.1	8.26	290.1	1470.0	6.23
267.1	1787.2	6.74	490.1	1770.1	8.37	270.1	1490.0	6.14
310.0	1830.1	6.97	510.1	1790.1	8.48	250.1	1510.0	6.13
352.9	1873.0	7.33	530.1	1810.1	8.60	230.1	1530.0	6.16
374.3	1894.4	7.45	550.1	1830.1	8.70	210.1	1550.0	6.14
417.1	1937.2	7.78	570.1	1850.1	8.92	190.1	1570.0	6.03
438.6	1958.7	8.01	590.1	1870.1	8.98	170.1	1590.0	6.06
481.4	2001.5	8.27	610.1	1890.1	9.12	150.1	1610.0	6.08
502.9	2023.0	8.53	630.1	1910.1	9.14	130.1	1630.0	6.08
545.7	2065.8	8.94	650.1	1930.1	9.39	110.1	1650.0	6.07
567.1	2087.2	9.08	670.1	1950.1	9.55	100.1	1660.0	6.08
610.0	2130.1	9.37	690.1	1970.1	9.68	80.1	1680.0	6.09
631.4	2151.5	9.62	710.1	1990.1	9.77	70.1	1690.0	6.12
674.3	2194.4	9.92	750.1	2030.1	10.02	50.1	1710.0	6.14
695.7	2215.8	10.00	770.1	2050.1	10.09	40.1	1720.0	6.12
738.6	2258.7	10.18	810.1	2090.1	10.20	20.1	1740.0	6.15
760.0	2280.1	10.34	830.1	2110.1	10.33	10.1	1750.0	6.31

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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
635.0	33.02	32.36	33.77	42.82	43.23	41.80
715.0	32.69	32.00	32.94	40.63	40.59	40.04
795.0	32.35	31.66	32.32	39.25	39.03	38.77
875.0	31.94	31.28	31.51	38.69	38.52	38.55
955.0	31.89	31.35	31.53	38.50	38.60	38.77
1035.0	32.49	31.94	32.18	38.50	38.76	38.98
1115.0	33.34	32.85	33.03	38.57	38.98	39.14
1195.0	34.95	34.44	34.53	39.23	39.77	39.90
1275.0	36.72	36.04	35.80	39.92	40.54	40.67
1355.0	39.46	38.68	37.79	38.97	39.43	39.61
1435.0	41.86	40.95	41.48	35.85	36.05	36.35
1515.0	42.23	41.55	43.43	33.17	33.28	33.46
1595.0	43.89	43.56	45.83	31.76	31.93	32.09
1675.0	46.43	46.09	46.89	31.24	31.37	31.51
1755.0	45.93	45.33	44.69	31.09	31.16	31.27
1835.0	45.16	44.21	42.91	30.97	31.06	31.09
1915.0	44.92	43.77	42.52	30.93	31.03	31.05
1995.0	44.05	42.99	42.31	30.96	31.06	31.02
2075.0	42.63	41.70	41.57	31.14	31.21	31.28
2155.0	41.17	40.34	40.11	31.25	31.30	31.20
2235.0	39.88	39.26	39.19	31.14	31.30	31.19
2315.0	39.11	38.53	38.23	31.50	31.64	31.45
2395.0	38.86	38.18	38.06	31.87	31.85	31.90
2475.0	38.78	38.06	37.98	32.29	32.17	32.29
2555.0	38.85	38.24	38.21	32.74	32.66	32.74
2615.0	38.62	38.38	38.12	32.86	33.04	32.84
2695.0	38.53	38.39	38.20	33.36	33.52	33.31
2755.0	38.29	38.17	38.01	33.69	33.85	33.61
2835.0	38.25	38.22	38.22	34.19	34.33	34.10
2895.0	37.79	37.88	38.00	34.49	34.65	34.45
2975.0	37.51	37.55	38.10	34.92	34.91	34.90
3035.0	37.53	37.83	38.51	35.25	35.46	35.26
3115.0	38.02	38.50	39.59	35.71	35.94	35.78
3175.0	38.78	39.46	40.84	36.10	36.35	36.22
3255.0	39.14	40.07	41.68	36.63	37.02	36.98
3315.0	39.28	40.38	41.92	37.06	37.37	37.27
3395.0	39.19	40.35	41.67	37.58	37.83	37.75
3455.0	39.10	40.16	41.22	37.72	37.95	37.89
3535.0	38.39	39.21	40.33	37.08	37.13	37.24
3595.0	37.88	38.35	39.53	36.18	35.86	36.13

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
680.0	635.0	16.46	15.14	18.51
760.0	715.0	18.56	17.42	19.60
840.0	795.0	21.96	20.96	22.84
920.0	875.0	25.78	25.05	27.85
1000.0	955.0	29.10	28.88	32.69
1080.0	1035.0	31.36	31.84	36.01
1160.0	1115.0	32.76	33.65	37.53
1240.0	1195.0	33.97	35.14	38.20
1320.0	1275.0	34.48	35.39	37.46
1400.0	1355.0	33.49	33.97	34.75
1480.0	1435.0	32.16	32.48	31.33
1560.0	1515.0	31.36	31.53	30.52
1640.0	1595.0	31.32	31.45	30.66
1720.0	1675.0	32.00	32.14	31.68
1800.0	1755.0	33.32	33.44	33.44
1880.0	1835.0	34.88	34.96	35.34
1960.0	1915.0	36.18	36.14	36.23
2040.0	1995.0	35.96	35.54	35.07
2120.0	2075.0	34.89	34.28	33.57
2200.0	2155.0	33.63	32.93	32.18
2280.0	2235.0	32.03	31.47	30.83
2360.0	2315.0	30.38	29.85	29.39
2440.0	2395.0	29.14	28.70	28.43
2520.0	2475.0	28.19	27.79	27.69
2600.0	2555.0	27.27	26.91	26.96
2660.0	2615.0	26.90	26.56	26.66
2740.0	2695.0	26.67	26.40	26.57
2800.0	2755.0	26.67	26.44	26.66
2880.0	2835.0	26.62	26.47	26.71
2940.0	2895.0	26.87	26.76	26.99
3020.0	2975.0	27.16	27.11	27.29
3080.0	3035.0	27.36	27.30	27.47
3160.0	3115.0	27.80	27.83	27.88
3220.0	3175.0	28.20	28.32	28.27
3300.0	3255.0	28.78	28.90	28.74
3360.0	3315.0	29.24	29.39	29.17
3440.0	3395.0	29.81	29.97	29.63
3500.0	3455.0	30.35	30.49	30.08
3580.0	3535.0	31.17	31.33	30.79
3640.0	3595.0	31.84	31.97	31.35

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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=1560MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
680.0	635.0	1.39	1.36	1.41	635.0	56.04	54.29	54.29	10.0	1.29	1.22	1.16
760.0	715.0	1.27	1.18	1.25	715.0	48.26	46.96	45.72	20.0	1.29	1.22	1.14
840.0	795.0	1.15	1.03	1.12	795.0	41.37	39.49	38.61	30.0	1.33	1.26	1.18
920.0	875.0	1.15	1.15	1.19	875.0	35.46	34.07	33.42	40.0	1.35	1.28	1.20
1000.0	955.0	1.22	1.31	1.35	955.0	28.03	27.16	26.74	50.0	1.35	1.28	1.21
1080.0	1035.0	1.32	1.46	1.51	1035.0	22.00	21.46	21.73	60.0	1.38	1.31	1.23
1160.0	1115.0	1.44	1.60	1.66	1115.0	16.26	15.96	16.26	70.0	1.43	1.35	1.28
1240.0	1195.0	1.55	1.73	1.81	1195.0	10.89	10.69	10.96	80.0	1.44	1.37	1.30
1320.0	1275.0	1.63	1.80	1.90	1275.0	6.71	6.56	6.71	90.0	1.44	1.37	1.30
1400.0	1355.0	1.56	1.68	1.76	1355.0	3.79	3.70	3.75	100.0	1.50	1.43	1.35
1480.0	1435.0	1.27	1.32	1.40	1435.0	2.25	2.22	2.11	110.0	1.54	1.46	1.39
1560.0	1515.0	1.11	1.07	1.07	1515.0	2.12	2.15	2.19	120.0	1.56	1.48	1.40
1640.0	1595.0	1.24	1.19	1.15	1595.0	2.97	3.04	3.13	130.0	1.63	1.54	1.47
1720.0	1675.0	1.40	1.35	1.32	1675.0	4.09	4.17	4.24	140.0	1.68	1.59	1.52
1800.0	1755.0	1.50	1.45	1.42	1755.0	5.14	5.20	5.23	150.0	1.68	1.60	1.52
1880.0	1835.0	1.56	1.51	1.50	1835.0	6.01	6.05	6.05	160.0	1.73	1.65	1.56
1960.0	1915.0	1.57	1.55	1.56	1915.0	6.53	6.58	6.53	170.0	1.80	1.71	1.62
2040.0	1995.0	1.52	1.50	1.52	1995.0	6.83	6.83	6.76	180.0	1.82	1.73	1.64
2120.0	2075.0	1.41	1.40	1.43	2075.0	6.97	6.91	6.73	200.0	1.97	1.86	1.76
2200.0	2155.0	1.30	1.30	1.32	2155.0	7.05	7.00	6.76	210.0	2.01	1.90	1.80
2280.0	2235.0	1.18	1.21	1.23	2235.0	7.11	7.05	6.91	230.0	2.13	2.01	1.90
2360.0	2315.0	1.09	1.17	1.19	2315.0	7.14	7.14	7.05	240.0	2.19	2.08	1.96
2440.0	2395.0	1.10	1.21	1.22	2395.0	7.08	7.08	7.00	260.0	2.27	2.15	2.03
2520.0	2475.0	1.23	1.35	1.35	2475.0	6.97	6.94	6.76	270.0	2.34	2.22	2.09
2600.0	2555.0	1.38	1.52	1.52	2555.0	6.83	6.73	6.42	290.0	2.37	2.24	2.11
2660.0	2615.0	1.53	1.68	1.69	2615.0	6.89	6.86	6.73	300.0	2.48	2.35	2.21
2740.0	2695.0	1.73	1.90	1.92	2695.0	6.81	6.78	6.68	320.0	2.56	2.42	2.27
2800.0	2755.0	1.85	2.04	2.07	2755.0	6.66	6.56	6.28	330.0	2.69	2.54	2.38
2880.0	2835.0	2.01	2.22	2.25	2835.0	6.56	6.44	6.17	350.0	2.73	2.57	2.41
2940.0	2895.0	2.13	2.35	2.39	2895.0	6.58	6.53	6.42	360.0	2.82	2.65	2.48
3020.0	2975.0	2.28	2.52	2.59	2975.0	6.58	6.53	6.42	380.0	2.93	2.76	2.58
3080.0	3035.0	2.42	2.67	2.75	3035.0	6.17	6.07	5.83	390.0	3.03	2.86	2.67
3160.0	3115.0	2.73	3.00	3.11	3115.0	6.01	5.91	5.74	410.0	3.21	3.03	2.84
3220.0	3175.0	3.06	3.36	3.50	3175.0	5.89	5.87	5.83	420.0	3.25	3.07	2.87
3300.0	3255.0	3.50	3.82	3.97	3255.0	5.63	5.59	5.52	440.0	3.42	3.22	3.02
3360.0	3315.0	3.83	4.16	4.32	3315.0	5.33	5.23	5.07	450.0	3.43	3.24	3.03
3440.0	3395.0	4.27	4.59	4.74	3395.0	5.03	4.96	4.89	470.0	3.70	3.50	3.29
3500.0	3455.0	4.51	4.82	4.96	3455.0	4.86	4.80	4.79	480.0	3.72	3.52	3.31
3580.0	3535.0	4.89	5.22	5.33	3535.0	4.44	4.37	4.29	500.0	4.02	3.82	3.60
3640.0	3595.0	5.14	5.47	5.59	3595.0	4.14	4.06	4.00	510.0	4.01	3.82	3.60

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	10	32	32	32	24	34	33	41	40	39
1	-	23	+0	34	31	33	39	49	47	43	52	54
2	56	78	68	58	76	75	81	81	72	>84	71	>84
3	>90	>84	>84	>84	82	>84	>84	>84	>84	>84	>84	>84
4	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
5	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
6	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
7	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
8	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
9	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
10	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1565 MHz; 0.00 dBm.
LO IN: 1520 MHz; +17.00 dBm
IF OUT: 45 MHz; -6.03 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	20	42	42	41	35	44	45	52	52	52
1	-	23	+0	35	31	34	40	48	46	43	52	55
2	36	69	60	48	66	64	68	69	61	72	60	77
3	73	79	80	76	60	79	76	74	70	80	75	87
4	>90	>94	89	>94	>94	89	87	>94	>94	>94	>94	>94
5	>90	>94	>94	>94	>94	>94	84	>94	>94	>94	>94	>94
6	>90	>94	>94	>94	>94	>94	>94	>94	93	>94	>94	>94
7	>90	>94	>94	>94	>94	>94	>94	>94	>94	>94	>94	>94
8	>90	>94	>94	>94	>94	>94	>94	>94	>94	>94	>94	>94
9	>90	>94	>94	>94	>94	>94	>94	>94	>94	>94	>94	>94
10	>90	>94	>94	>94	>94	>94	>94	>94	>94	>94	>94	>94
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1565 MHz; 10.00 dBm.
LO IN: 1520 MHz; +17.00 dBm
IF OUT: 45 MHz; 3.95 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.

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