

Frequency Mixer

HJK-ED11830/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=390MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+10dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
+19	+20	+21	+19	+20	+21	+19	+20	+21						
25.1	415.1	10.33	10.07	9.79	25.1	415.1	15.54	17.53	20.33	25.1	415.1	-0.15	0.00	0.07
85.1	475.1	7.34	7.31	7.30	85.1	475.1	22.45	23.37	23.89	85.1	475.1	0.19	0.15	0.13
145.1	535.1	6.87	6.83	6.83	145.1	535.1	22.44	23.44	24.16	145.1	535.1	0.17	0.14	0.12
205.1	595.1	6.75	6.73	6.73	205.1	595.1	21.75	22.77	23.67	205.1	595.1	0.21	0.17	0.15
265.1	655.1	6.72	6.72	6.75	265.1	655.1	21.99	22.89	23.95	265.1	655.1	0.18	0.15	0.13
325.1	715.1	6.66	6.65	6.67	325.1	715.1	21.99	22.57	23.54	325.1	715.1	0.17	0.14	0.12
385.1	775.1	6.77	6.76	6.78	385.1	775.1	25.56	26.26	27.19	385.1	775.1	0.17	0.14	0.12
445.1	835.1	6.67	6.67	6.69	445.1	835.1	26.47	27.39	28.41	445.1	835.1	0.16	0.13	0.10
505.1	895.1	6.63	6.63	6.66	505.1	895.1	26.99	27.65	28.91	505.1	895.1	0.12	0.09	0.07
565.1	955.1	6.62	6.61	6.63	565.1	955.1	26.33	27.03	27.96	565.1	955.1	0.09	0.07	0.06
625.1	1015.1	6.52	6.50	6.51	625.1	1015.1	26.50	27.06	27.87	625.1	1015.1	0.09	0.08	0.06
685.1	1075.1	6.50	6.45	6.44	685.1	1075.1	27.03	27.88	28.83	685.1	1075.1	0.08	0.07	0.06
745.1	1135.1	6.53	6.49	6.47	745.1	1135.1	27.98	28.40	29.23	745.1	1135.1	0.08	0.06	0.05
805.1	1195.1	6.51	6.47	6.46	805.1	1195.1	27.91	29.77	31.51	805.1	1195.1	0.07	0.05	0.04
865.1	1255.1	6.62	6.58	6.56	865.1	1255.1	29.06	32.29	34.22	865.1	1255.1	0.05	0.04	0.03
925.1	1315.1	6.82	6.77	6.75	925.1	1315.1	28.57	30.22	33.26	925.1	1315.1	0.05	0.04	0.03
985.1	1375.1	6.87	6.81	6.78	985.1	1375.1	27.84	29.17	32.22	985.1	1375.1	0.05	0.04	0.03
1045.1	1435.1	6.89	6.84	6.82	1045.1	1435.1	27.52	29.70	31.48	1045.1	1435.1	0.05	0.04	0.02
1105.1	1495.1	6.92	6.87	6.85	1105.1	1495.1	26.55	28.01	29.69	1105.1	1495.1	0.06	0.05	0.03
1165.1	1555.1	6.84	6.79	6.77	1165.1	1555.1	26.84	27.69	28.94	1165.1	1555.1	0.08	0.06	0.05
1225.1	1615.1	6.72	6.67	6.65	1225.1	1615.1	27.04	28.10	29.48	1225.1	1615.1	0.08	0.07	0.05
1285.1	1675.1	6.83	6.77	6.74	1285.1	1675.1	27.06	27.78	28.27	1285.1	1675.1	0.08	0.08	0.06
1345.1	1735.1	6.86	6.80	6.77	1345.1	1735.1	27.33	27.84	28.92	1345.1	1735.1	0.08	0.08	0.06
1405.1	1795.1	6.96	6.90	6.88	1405.1	1795.1	27.55	28.31	28.84	1405.1	1795.1	0.07	0.07	0.06
1465.1	1855.1	7.15	7.09	7.08	1465.1	1855.1	27.47	28.39	29.18	1465.1	1855.1	0.08	0.07	0.06
1525.1	1915.1	7.27	7.23	7.23	1525.1	1915.1	27.96	28.94	29.14	1525.1	1915.1	0.08	0.07	0.06
1585.1	1975.1	7.34	7.32	7.33	1585.1	1975.1	28.68	29.38	29.72	1585.1	1975.1	0.09	0.08	0.06
1645.1	2035.1	7.48	7.46	7.46	1645.1	2035.1	30.05	30.18	29.39	1645.1	2035.1	0.11	0.10	0.08
1705.1	2095.1	7.74	7.73	7.75	1705.1	2095.1	29.42	30.48	31.43	1705.1	2095.1	0.11	0.10	0.08
1775.1	2165.1	8.05	8.05	8.08	1775.1	2165.1	29.37	29.34	29.40	1775.1	2165.1	0.11	0.10	0.07
1835.1	2225.1	8.26	8.26	8.29	1835.1	2225.1	28.86	29.62	30.65	1835.1	2225.1	0.13	0.11	0.09
1905.1	2295.1	8.65	8.66	8.69	1905.1	2295.1	28.37	29.78	30.39	1905.1	2295.1	0.15	0.12	0.09
1965.1	2355.1	9.27	9.25	9.26	1965.1	2355.1	27.47	28.65	29.71	1965.1	2355.1	0.15	0.12	0.09
2035.1	2425.1	9.77	9.70	9.68	2035.1	2425.1	25.30	26.68	27.71	2035.1	2425.1	0.20	0.17	0.13
2095.1	2485.1	9.74	9.66	9.62	2095.1	2485.1	22.73	23.89	25.26	2095.1	2485.1	0.29	0.25	0.20
2165.1	2555.1	9.77	9.70	9.69	2165.1	2555.1	25.38	26.28	27.18	2165.1	2555.1	0.24	0.21	0.17
2225.1	2615.1	9.79	9.74	9.74	2225.1	2615.1	24.18	25.20	26.71	2225.1	2615.1	0.20	0.17	0.12
2295.1	2685.1	10.02	9.96	9.93	2295.1	2685.1	24.27	25.70	26.45	2295.1	2685.1	0.18	0.15	0.11
2355.1	2745.1	10.49	10.40	10.37	2355.1	2745.1	25.57	26.58	27.60	2355.1	2745.1	0.15	0.12	0.09
2425.1	2815.1	10.79	10.69	10.63	2425.1	2815.1	26.12	27.37	28.50	2425.1	2815.1	0.13	0.11	0.07

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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)=1150.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1138.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1162.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+20			+20			+20
1090.0	60.1	10.84	10.0	1148.1	6.60	1110.0	52.1	13.67
1036.0	114.1	7.11	70.0	1208.1	6.72	1090.0	72.1	8.89
982.0	168.1	7.39	130.0	1268.1	6.76	1070.0	92.1	7.56
928.0	222.1	7.63	190.0	1328.1	6.79	1050.0	112.1	7.11
874.0	276.1	7.60	250.0	1388.1	6.75	1030.0	132.1	7.17
820.0	330.1	8.07	310.0	1448.1	6.74	1010.0	152.1	7.34
766.0	384.1	8.36	370.0	1508.1	6.73	990.0	172.1	7.44
712.0	438.1	7.63	430.0	1568.1	6.77	970.0	192.1	7.43
658.0	492.1	7.25	490.0	1628.1	6.82	930.0	232.1	7.71
604.0	546.1	7.07	550.0	1688.1	6.87	910.0	252.1	7.80
550.0	600.1	7.56	610.0	1748.1	7.04	870.0	292.1	7.68
496.0	654.1	7.20	670.0	1808.1	7.12	850.0	312.1	7.98
442.0	708.1	7.07	730.0	1868.1	7.18	810.0	352.1	8.17
388.0	762.1	6.98	790.0	1928.1	7.33	790.0	372.1	8.19
334.0	816.1	7.01	850.0	1988.1	7.38	750.0	412.1	9.18
280.0	870.1	6.78	910.0	2048.1	7.54	730.0	432.1	7.79
226.0	924.1	6.74	970.0	2108.1	7.58	690.0	472.1	7.42
172.0	978.1	6.74	1030.0	2168.1	7.67	670.0	492.1	7.33
118.0	1032.1	6.74	1090.0	2228.1	7.89	630.0	532.1	7.20
64.0	1086.1	6.76	1150.0	2288.1	8.34	610.0	552.1	7.09
10.0	1140.1	6.56	1210.0	2348.1	9.02	570.0	592.1	7.82
89.3	1239.4	6.82	1270.0	2408.1	9.50	550.0	612.1	7.45
194.9	1345.0	6.78	1330.0	2468.1	9.36	510.0	652.1	7.20
300.6	1450.7	6.75	1390.0	2528.1	9.08	490.0	672.1	7.18
406.3	1556.4	6.80	1450.0	2588.1	9.09	450.0	712.1	7.09
512.0	1662.1	6.88	1510.0	2648.1	9.11	430.0	732.1	6.96
617.7	1767.8	7.07	1550.0	2688.1	9.15	390.0	772.1	7.02
723.3	1873.4	7.19	1610.0	2748.1	9.15	370.0	792.1	7.01
829.0	1979.1	7.37	1650.0	2788.1	9.16	330.0	832.1	6.89
961.1	2111.2	7.59	1710.0	2848.1	9.23	310.0	852.1	6.82
1066.8	2216.9	7.84	1750.0	2888.1	9.29	270.0	892.1	6.81
1198.9	2349.0	9.04	1810.0	2948.1	9.45	250.0	912.1	6.72
1304.6	2454.7	9.40	1850.0	2988.1	9.53	210.0	952.1	6.74
1436.7	2586.8	9.08	1910.0	3048.1	9.70	190.0	972.1	6.77
1542.3	2692.4	9.16	1950.0	3088.1	9.77	150.0	1012.1	6.77
1674.4	2824.5	9.16	2010.0	3148.1	9.98	130.0	1032.1	6.77
1780.1	2930.2	9.33	2050.0	3188.1	10.05	90.0	1072.1	6.74
1912.2	3062.3	9.72	2110.0	3248.1	10.28	70.0	1092.1	6.70
2017.9	3168.0	9.98	2150.0	3288.1	10.59	30.0	1132.1	6.75
2150.0	3300.1	10.60	2210.0	3348.1	10.88	10.0	1152.1	6.54

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+19	+20	+21	+19	+20	+21
415.1	50.22	50.23	50.17	48.70	48.39	48.09
475.1	48.60	48.71	48.91	43.95	43.91	43.87
535.1	49.26	49.40	49.57	42.08	41.97	41.94
595.1	48.00	48.02	48.14	40.32	40.24	40.16
655.1	48.48	48.54	48.54	39.03	38.95	38.85
715.1	48.76	48.84	48.94	37.90	37.80	37.74
775.1	47.50	47.46	47.43	36.97	36.89	36.81
835.1	44.57	44.57	44.57	35.20	35.10	35.04
895.1	43.60	43.60	43.64	34.00	34.00	34.02
955.1	42.51	42.50	42.49	33.19	33.20	33.23
1015.1	41.37	41.34	41.36	32.91	32.92	32.96
1075.1	39.75	39.73	39.76	32.62	32.59	32.63
1135.1	38.43	38.34	38.30	32.25	32.24	32.30
1195.1	38.33	38.38	38.40	31.85	31.92	31.97
1255.1	37.57	37.67	37.77	32.44	32.54	32.64
1315.1	36.56	36.70	36.84	33.41	33.54	33.65
1375.1	34.76	34.86	34.97	34.95	35.10	35.27
1435.1	33.78	33.89	33.96	36.23	36.44	36.61
1495.1	32.38	32.48	32.61	35.62	35.71	35.89
1555.1	31.27	31.40	31.52	32.84	32.88	32.92
1615.1	31.78	31.94	32.14	31.77	31.73	31.76
1675.1	32.11	32.32	32.55	33.10	33.05	33.05
1735.1	33.04	33.25	33.52	35.50	35.42	35.40
1795.1	34.34	34.60	34.91	41.30	41.11	41.01
1855.1	34.98	35.28	35.63	47.13	47.32	47.58
1915.1	35.82	36.13	36.49	39.13	39.37	39.64
1975.1	37.16	37.43	37.67	35.35	35.53	35.69
2035.1	37.90	37.97	38.05	34.32	34.42	34.53
2095.1	37.93	37.91	37.92	35.27	35.42	35.60
2165.1	36.87	36.87	36.80	37.20	37.29	37.28
2225.1	36.21	36.08	35.95	35.96	35.73	35.50
2295.1	35.54	35.39	35.16	30.68	30.50	30.22
2355.1	35.93	35.85	35.51	27.09	26.96	26.55
2425.1	36.72	36.57	36.63	25.17	24.83	24.72
2485.1	36.38	36.56	36.69	24.35	24.24	24.18
2555.1	36.33	36.35	36.42	24.28	24.08	24.01
2615.1	35.84	35.86	35.93	24.25	24.14	24.13
2685.1	35.07	35.05	35.02	24.63	24.54	24.43
2745.1	34.83	34.86	34.76	25.18	25.03	24.96
2815.1	34.35	34.34	34.33	25.58	25.54	25.47

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+19	+20	+21
25.1	415.1	25.63	26.58	27.99
85.1	475.1	57.17	66.64	53.46
145.1	535.1	36.40	36.64	36.55
205.1	595.1	38.37	39.36	40.24
265.1	655.1	37.61	39.36	41.94
325.1	715.1	28.91	28.94	28.74
385.1	775.1	28.41	28.72	28.78
445.1	835.1	35.61	34.82	33.88
505.1	895.1	45.00	42.18	39.75
565.1	955.1	46.98	45.39	43.65
625.1	1015.1	36.57	35.15	33.64
685.1	1075.1	43.45	42.21	40.88
745.1	1135.1	47.54	45.95	44.23
805.1	1195.1	38.64	39.00	39.65
865.1	1255.1	36.71	36.84	37.22
925.1	1315.1	36.88	37.15	37.65
985.1	1375.1	35.13	35.29	35.59
1045.1	1435.1	33.76	33.77	33.78
1105.1	1495.1	33.80	33.91	33.91
1165.1	1555.1	34.21	34.46	34.70
1225.1	1615.1	34.68	35.09	35.42
1285.1	1675.1	35.41	35.81	36.18
1345.1	1735.1	36.53	36.95	37.43
1405.1	1795.1	36.27	36.66	37.12
1465.1	1855.1	33.08	33.30	33.44
1525.1	1915.1	30.34	30.59	30.76
1585.1	1975.1	29.83	30.08	30.29
1645.1	2035.1	30.27	30.58	30.87
1705.1	2095.1	30.90	31.14	31.37
1775.1	2165.1	32.00	32.10	32.19
1835.1	2225.1	34.24	34.63	34.91
1905.1	2295.1	35.34	35.77	36.27
1965.1	2355.1	31.91	31.67	31.58
2035.1	2425.1	25.11	25.37	25.59
2095.1	2485.1	22.05	22.40	22.84
2165.1	2555.1	21.90	22.30	22.65
2225.1	2615.1	22.40	22.74	23.05
2295.1	2685.1	22.86	23.19	23.49
2355.1	2745.1	23.16	23.47	23.77
2425.1	2815.1	23.61	23.88	24.16

Frequency Mixer

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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=2020MHz (:1)			
		@LO (dBm)				@LO (dBm)					@LO (dBm)			
		+19	+20	+21		+19	+20	+21	+19		+20	+21		
25.1	415.1	9.18	7.87	7.53	415.1	34.07	33.42	33.42	10.0	1.45	1.51	1.57		
85.1	475.1	1.78	1.80	1.84	475.1	40.41	40.41	39.49	70.0	1.42	1.48	1.53		
145.1	535.1	1.38	1.43	1.47	535.1	37.77	36.97	36.20	130.0	1.47	1.53	1.57		
205.1	595.1	1.28	1.33	1.38	595.1	33.42	33.42	32.79	190.0	1.53	1.59	1.63		
265.1	655.1	1.31	1.35	1.40	655.1	30.49	29.96	29.46	250.0	1.60	1.64	1.69		
325.1	715.1	1.34	1.37	1.41	715.1	26.74	25.94	25.56	310.0	1.69	1.73	1.77		
385.1	775.1	1.37	1.39	1.41	775.1	22.00	21.73	21.73	350.0	1.75	1.79	1.83		
445.1	835.1	1.44	1.45	1.47	835.1	18.50	18.30	18.11	410.0	1.81	1.84	1.87		
505.1	895.1	1.49	1.50	1.51	895.1	17.05	16.72	16.56	450.0	1.87	1.90	1.93		
565.1	955.1	1.50	1.50	1.49	955.1	15.13	15.00	15.00	510.0	1.87	1.89	1.91		
625.1	1015.1	1.51	1.50	1.49	1015.1	12.44	12.18	12.09	550.0	1.88	1.90	1.92		
685.1	1075.1	1.59	1.56	1.54	1075.1	10.37	10.25	10.25	610.0	1.89	1.91	1.92		
745.1	1135.1	1.67	1.64	1.60	1135.1	8.55	8.47	8.47	650.0	1.86	1.87	1.88		
805.1	1195.1	1.70	1.66	1.62	1195.1	7.11	7.00	6.94	710.0	1.83	1.83	1.83		
865.1	1255.1	1.74	1.70	1.66	1255.1	6.30	6.24	6.21	750.0	1.78	1.78	1.78		
925.1	1315.1	1.82	1.78	1.74	1315.1	5.44	5.41	5.39	810.0	1.68	1.67	1.67		
985.1	1375.1	1.88	1.83	1.78	1375.1	4.75	4.72	4.69	850.0	1.63	1.61	1.60		
1045.1	1435.1	1.83	1.79	1.74	1435.1	4.33	4.32	4.31	910.0	1.54	1.52	1.50		
1105.1	1495.1	1.81	1.76	1.72	1495.1	4.07	4.06	4.05	950.0	1.50	1.47	1.45		
1165.1	1555.1	1.80	1.75	1.70	1555.1	3.94	3.93	3.90	1010.0	1.48	1.43	1.39		
1225.1	1615.1	1.70	1.66	1.61	1615.1	4.01	4.01	4.00	1050.0	1.46	1.42	1.38		
1285.1	1675.1	1.61	1.56	1.52	1675.1	4.14	4.14	4.14	1110.0	1.48	1.44	1.40		
1345.1	1735.1	1.51	1.46	1.42	1735.1	4.26	4.26	4.24	1150.0	1.49	1.44	1.40		
1405.1	1795.1	1.40	1.36	1.33	1795.1	4.48	4.50	4.50	1210.0	1.50	1.45	1.41		
1465.1	1855.1	1.28	1.25	1.23	1855.1	4.61	4.62	4.61	1250.0	1.53	1.48	1.45		
1525.1	1915.1	1.19	1.17	1.16	1915.1	4.59	4.56	4.53	1310.0	1.55	1.51	1.47		
1585.1	1975.1	1.17	1.18	1.19	1975.1	4.68	4.67	4.68	1350.0	1.56	1.52	1.48		
1645.1	2035.1	1.23	1.25	1.28	2035.1	4.48	4.46	4.45	1410.0	1.59	1.55	1.52		
1705.1	2095.1	1.37	1.40	1.43	2095.1	4.28	4.25	4.22	1450.0	1.58	1.54	1.51		
1775.1	2165.1	1.57	1.61	1.64	2165.1	3.90	3.88	3.87	1510.0	1.49	1.46	1.43		
1835.1	2225.1	1.70	1.74	1.78	2225.1	3.37	3.35	3.33	1550.0	1.46	1.42	1.39		
1905.1	2295.1	1.85	1.89	1.94	2295.1	2.84	2.82	2.80	1610.0	1.33	1.30	1.27		
1965.1	2355.1	2.01	2.06	2.09	2355.1	2.68	2.66	2.66	1650.0	1.30	1.27	1.24		
2035.1	2425.1	2.18	2.22	2.26	2425.1	3.04	3.02	3.02	1710.0	1.25	1.22	1.20		
2095.1	2485.1	2.36	2.39	2.43	2485.1	3.41	3.39	3.38	1750.0	1.19	1.16	1.14		
2165.1	2555.1	2.65	2.68	2.72	2555.1	3.54	3.53	3.53	1810.0	1.14	1.12	1.10		
2225.1	2615.1	2.86	2.89	2.92	2615.1	3.48	3.47	3.47	1850.0	1.08	1.07	1.07		
2295.1	2685.1	3.08	3.10	3.12	2685.1	3.30	3.27	3.25	1910.0	1.08	1.11	1.13		
2355.1	2745.1	3.34	3.34	3.34	2745.1	3.16	3.15	3.14	1950.0	1.17	1.20	1.23		
2425.1	2815.1	3.61	3.60	3.58	2815.1	3.00	3.00	2.99	2010.0	1.67	1.74	1.79		

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	2	13	20	16	20	22	42	26	24	50
1	-	27	+0	50	20	43	31	47	38	53	44	55
2	74	61	72	65	>78	74	69	72	72	72	>78	>78
3	>90	>78	78	78	75	>78	>78	>78	>78	>78	>78	>78
4	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
5	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
6	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
7	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
8	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
9	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
10	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1150 MHz; -5.00 dBm.

LO IN: 1540 MHz; +20.00 dBm

IF OUT: 390 MHz; -11.81 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	12	23	30	26	30	32	52	36	34	60
1	-	27	+0	48	20	43	31	47	39	53	44	56
2	54	53	67	52	63	63	59	61	61	59	72	68
3	82	70	54	61	52	67	62	75	73	88	71	80
4	>90	82	>88	72	80	85	86	87	86	86	>88	84
5	>90	>88	>88	84	>88	80	82	>88	86	>88	>88	>88
6	>90	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
7	>90	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
8	>90	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
9	>90	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
10	>90	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1150 MHz; 5.00 dBm.

LO IN: 1540 MHz; +20.00 dBm

IF OUT: 390 MHz; -1.82 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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