

Frequency Mixer

TUF-ED12915/4

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+5dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+7	+10	+13			+7	+10	+13			+7	+10	+13
10.1	40.1	6.71	6.30	6.06	10.1	40.1	15.44	17.56	19.06	10.1	40.1	0.88	0.78	0.58
90.1	120.1	6.46	6.04	5.83	90.1	120.1	17.36	21.74	16.37	90.1	120.1	1.25	0.91	0.64
170.1	200.1	6.38	5.99	5.81	170.1	200.1	15.41	13.43	14.88	170.1	200.1	1.31	0.97	0.67
250.1	280.1	6.48	6.08	5.89	250.1	280.1	11.74	12.97	14.84	250.1	280.1	1.31	0.91	0.67
330.1	360.1	6.59	6.20	5.97	330.1	360.1	11.10	13.00	15.08	330.1	360.1	1.25	0.87	0.64
410.1	440.1	6.69	6.27	6.03	410.1	440.1	10.82	12.57	14.87	410.1	440.1	1.35	0.97	0.77
490.1	520.1	6.72	6.27	6.00	490.1	520.1	10.56	13.09	16.45	490.1	520.1	1.45	1.11	0.88
570.1	600.1	6.96	6.48	6.18	570.1	600.1	10.15	11.63	13.41	570.1	600.1	1.59	1.22	0.98
650.1	680.1	7.28	6.62	6.19	650.1	680.1	10.23	14.05	18.67	650.1	680.1	1.57	1.33	1.11
710.1	740.1	7.62	6.91	6.38	710.1	740.1	9.27	12.26	18.53	710.1	740.1	1.47	1.28	1.19
790.1	820.1	7.81	7.14	6.63	790.1	820.1	9.89	11.80	14.68	790.1	820.1	1.43	1.21	1.13
850.1	880.1	8.15	7.39	6.89	850.1	880.1	9.91	11.99	14.17	850.1	880.1	1.26	1.11	1.06
930.1	960.1	8.63	7.57	6.82	930.1	960.1	9.41	12.17	15.89	930.1	960.1	0.91	1.08	1.16
990.1	1020.1	8.80	7.46	6.77	990.1	1020.1	9.37	13.60	16.84	990.1	1020.1	0.90	1.29	1.24
1070.1	1100.1	8.98	7.69	6.85	1070.1	1100.1	9.01	11.49	13.24	1070.1	1100.1	0.84	1.26	1.30
1130.1	1160.1	8.89	7.87	7.01	1130.1	1160.1	9.06	10.44	11.76	1130.1	1160.1	0.77	0.99	1.15
1210.1	1240.1	8.49	7.71	7.06	1210.1	1240.1	9.36	10.08	10.24	1210.1	1240.1	0.97	1.01	1.06
1270.1	1300.1	8.29	7.61	7.06	1270.1	1300.1	9.33	9.57	9.61	1270.1	1300.1	1.13	1.05	1.05
1350.1	1380.1	7.99	7.43	6.97	1350.1	1380.1	9.82	9.16	8.85	1350.1	1380.1	1.35	1.14	1.09
1410.1	1440.1	7.72	7.23	6.84	1410.1	1440.1	10.11	8.52	7.61	1410.1	1440.1	1.56	1.22	1.11
1490.1	1520.1	7.56	7.01	6.69	1490.1	1520.1	9.77	8.67	8.32	1490.1	1520.1	1.70	1.31	1.11
1550.1	1580.1	7.69	7.08	6.68	1550.1	1580.1	9.13	9.67	12.00	1550.1	1580.1	1.59	1.19	1.01
1630.1	1660.1	7.61	6.81	6.24	1630.1	1660.1	9.67	14.62	15.26	1630.1	1660.1	1.55	1.22	1.01
1690.1	1720.1	7.55	6.53	6.08	1690.1	1720.1	11.35	12.90	15.74	1690.1	1720.1	1.63	1.36	0.92
1770.1	1800.1	7.59	6.44	6.10	1770.1	1800.1	13.83	13.03	18.15	1770.1	1800.1	1.85	1.39	0.85
1830.1	1860.1	7.72	6.60	6.27	1830.1	1860.1	11.63	15.32	19.58	1830.1	1860.1	1.91	1.30	0.86
1910.1	1940.1	7.76	6.77	6.41	1910.1	1940.1	12.82	17.27	19.11	1910.1	1940.1	2.08	1.38	1.01
1970.1	2000.1	7.98	6.87	6.48	1970.1	2000.1	13.30	18.10	16.56	1970.1	2000.1	2.39	1.65	1.22
2050.1	2080.1	8.57	7.18	6.69	2050.1	2080.1	12.98	17.89	18.93	2050.1	2080.1	2.47	1.86	1.35
2110.1	2140.1	8.73	7.23	6.71	2110.1	2140.1	12.26	15.94	17.33	2110.1	2140.1	2.50	1.96	1.44
2190.1	2220.1	9.09	7.24	6.64	2190.1	2220.1	10.55	13.37	15.83	2190.1	2220.1	2.44	2.10	1.56
2250.1	2280.1	10.16	7.53	6.77	2250.1	2280.1	7.64	11.71	13.83	2250.1	2280.1	1.94	2.23	1.62
2330.1	2360.1	11.12	7.95	6.90	2330.1	2360.1	5.69	9.77	12.26	2330.1	2360.1	1.47	2.20	1.73
2390.1	2420.1	10.79	7.79	6.75	2390.1	2420.1	5.90	9.11	11.91	2390.1	2420.1	1.59	2.16	1.78
2470.1	2500.1	11.70	8.17	6.76	2470.1	2500.1	4.51	8.88	10.53	2470.1	2500.1	1.24	2.08	1.87
2530.1	2560.1	12.80	8.82	7.10	2530.1	2560.1	3.18	8.83	9.91	2530.1	2560.1	0.73	1.94	1.73
2610.1	2640.1	13.28	8.99	7.26	2610.1	2640.1	2.70	8.81	10.27	2610.1	2640.1	0.53	1.94	1.65
2670.1	2700.1	13.56	9.18	7.34	2670.1	2700.1	2.33	8.80	10.65	2670.1	2700.1	0.50	2.04	1.72
2750.1	2780.1	14.76	9.97	7.72	2750.1	2780.1	1.35	8.54	10.60	2750.1	2780.1	-0.10	1.89	1.74
2810.1	2840.1	15.23	10.26	8.02	2810.1	2840.1	1.11	8.90	10.70	2810.1	2840.1	-0.40	1.70	1.63

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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)=767MHz (dB)
		@LO (dBm) +10
757.0	10.0	6.60
737.0	30.0	6.53
717.0	50.0	6.52
697.0	70.0	6.60
677.0	90.0	6.62
657.0	110.0	6.54
637.0	130.0	6.61
617.0	150.0	6.57
597.0	170.0	6.67
577.0	190.0	6.67
557.0	210.0	6.71
537.0	230.0	6.74
517.0	250.0	6.72
497.0	270.0	6.77
477.0	290.0	6.83
457.0	310.0	6.70
437.0	330.0	6.71
417.0	350.0	6.68
397.0	370.0	6.71
377.0	390.0	6.72
357.0	410.0	6.71
337.0	430.0	6.76
317.0	450.0	6.82
297.0	470.0	6.75
277.0	490.0	6.84
257.0	510.0	6.77
237.0	530.0	6.80
217.0	550.0	6.88
197.0	570.0	6.84
177.0	590.0	6.91
157.0	610.0	6.89
137.0	630.0	6.86
117.0	650.0	6.84
107.0	660.0	6.80
87.0	680.0	6.88
77.0	690.0	6.79
57.0	710.0	6.86
47.0	720.0	6.82
27.0	740.0	6.92
17.0	750.0	6.95

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=10MHz (dB)
		@LO (dBm) +10
10.1	20.1	6.50
50.1	60.1	6.30
90.1	100.1	6.46
130.1	140.1	6.29
170.1	180.1	6.19
210.1	220.1	6.23
250.1	260.1	6.22
290.1	300.1	6.22
330.1	340.1	6.24
370.1	380.1	6.25
410.1	420.1	6.18
450.1	460.1	6.30
490.1	500.1	6.26
530.1	540.1	6.41
570.1	580.1	6.42
610.1	620.1	6.50
650.1	660.1	6.43
690.1	700.1	6.54
730.1	740.1	6.66
770.1	780.1	6.64
810.1	820.1	6.92
850.1	860.1	7.09
890.1	900.1	7.07
930.1	940.1	7.26
970.1	980.1	7.47
1010.1	1020.1	7.43
1050.1	1060.1	7.67
1090.1	1100.1	7.93
1130.1	1140.1	8.22
1170.1	1180.1	8.19
1210.1	1220.1	8.55
1250.1	1260.1	8.73
1290.1	1300.1	9.01
1330.1	1340.1	9.33
1370.1	1380.1	9.31
1410.1	1420.1	9.60
1450.1	1460.1	9.81
1470.1	1480.1	10.06
1510.1	1520.1	10.31
1530.1	1540.1	10.48

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1510.1MHz (dB)
		@LO (dBm) +10
1490.1	20.0	10.15
1450.1	60.0	10.16
1410.1	100.0	10.01
1370.1	140.0	9.76
1330.1	180.0	9.61
1290.1	220.0	9.29
1250.1	260.0	9.16
1210.1	300.0	9.02
1170.1	340.0	8.82
1130.1	380.0	8.66
1090.1	420.0	8.59
1050.1	460.0	8.61
1010.1	500.0	8.49
970.1	540.0	8.34
930.1	580.0	8.37
890.1	620.0	8.33
850.1	660.0	8.29
810.1	700.0	8.13
770.1	740.0	8.15
730.1	780.0	8.10
690.1	820.0	8.13
650.1	860.0	7.96
610.1	900.0	7.83
570.1	940.0	7.65
530.1	980.0	7.47
490.1	1020.0	7.19
450.1	1060.0	7.07
410.1	1100.0	7.09
370.1	1140.0	7.12
330.1	1180.0	7.14
290.1	1220.0	7.20
250.1	1260.0	7.25
210.1	1300.0	7.27
190.1	1320.0	7.17
150.1	1360.0	7.23
130.1	1380.0	7.16
90.1	1420.0	7.16
70.1	1440.0	7.12
30.1	1480.0	7.10
10.1	1500.0	7.32

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+7	+10	+13	+7	+10	+13
40.1	66.10	66.91	67.24	43.77	44.49	45.07
120.1	57.68	59.01	60.00	34.64	35.60	36.60
200.1	52.36	53.43	54.24	30.84	32.21	32.99
280.1	49.83	51.21	52.39	28.92	30.09	30.73
360.1	48.11	49.71	50.96	27.21	28.21	28.79
440.1	46.63	48.27	49.66	25.80	26.89	27.76
520.1	45.52	47.39	48.96	24.41	25.70	26.73
600.1	44.89	47.10	49.16	23.21	24.70	26.00
680.1	43.90	46.13	48.35	22.21	23.92	25.40
740.1	43.37	45.60	47.68	21.47	23.30	25.11
820.1	42.67	45.15	47.60	20.77	22.56	24.36
880.1	42.37	45.17	48.12	20.44	22.10	23.81
960.1	42.09	44.94	47.82	20.18	21.74	23.21
1020.1	41.49	43.94	46.26	19.69	21.08	22.34
1100.1	41.07	43.18	45.20	19.06	20.27	21.15
1160.1	40.89	42.82	44.54	18.68	19.69	20.35
1240.1	40.46	42.31	43.96	18.11	18.80	19.32
1300.1	40.42	42.29	44.17	17.83	18.38	18.78
1380.1	40.41	42.21	44.02	17.45	17.84	18.00
1440.1	40.90	42.90	44.61	17.24	17.46	17.35
1520.1	38.57	40.04	43.22	16.54	16.43	16.10
1580.1	37.27	38.94	39.96	16.55	16.07	15.41
1660.1	38.02	39.74	41.43	15.55	14.77	14.15
1720.1	38.11	40.18	42.22	14.91	14.13	13.50
1800.1	38.05	40.42	42.78	14.15	13.31	12.73
1860.1	37.74	39.94	42.32	13.55	12.60	11.99
1940.1	37.46	39.51	41.73	12.72	11.97	11.36
2000.1	37.40	39.72	42.09	12.36	11.60	11.08
2080.1	36.66	39.09	41.78	11.58	11.10	10.63
2140.1	36.31	38.74	41.66	11.02	10.67	10.30
2220.1	35.91	38.46	41.47	10.51	10.07	9.80
2280.1	34.99	37.52	40.69	10.07	9.83	9.59
2360.1	34.37	36.81	39.86	9.63	9.53	9.34
2420.1	34.57	37.18	40.57	9.29	9.21	9.12
2500.1	34.14	36.66	40.25	8.90	8.85	8.89
2560.1	33.73	36.13	39.62	8.67	8.61	8.65
2640.1	33.94	36.52	39.95	8.41	8.41	8.46
2700.1	34.04	36.93	40.45	8.24	8.26	8.34
2780.1	34.05	37.04	40.56	7.92	8.19	8.30
2840.1	34.37	37.38	40.64	7.88	7.97	8.22

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+7	+10	+13
10.1	40.1	59.25	59.67	56.65
90.1	120.1	46.79	46.67	46.70
170.1	200.1	42.34	41.85	41.64
250.1	280.1	39.74	39.37	38.97
330.1	360.1	37.85	37.68	37.71
410.1	440.1	36.37	36.09	35.94
490.1	520.1	34.63	34.27	34.45
570.1	600.1	33.37	32.90	32.66
650.1	680.1	32.53	32.54	32.21
710.1	740.1	32.14	31.77	31.32
790.1	820.1	30.62	30.31	29.94
850.1	880.1	29.86	29.58	29.31
930.1	960.1	29.50	29.04	28.86
990.1	1020.1	29.90	29.43	29.03
1070.1	1100.1	31.71	30.92	30.64
1130.1	1160.1	33.19	32.50	31.91
1210.1	1240.1	33.88	33.95	33.68
1270.1	1300.1	32.92	33.48	33.70
1350.1	1380.1	30.92	31.72	32.64
1410.1	1440.1	29.47	30.43	31.45
1490.1	1520.1	26.78	27.63	29.02
1550.1	1580.1	27.79	28.24	27.05
1630.1	1660.1	28.07	28.68	29.09
1690.1	1720.1	28.07	28.72	29.06
1770.1	1800.1	28.06	28.73	29.16
1830.1	1860.1	28.53	29.19	29.44
1910.1	1940.1	28.78	29.48	29.86
1970.1	2000.1	28.58	29.32	29.93
2050.1	2080.1	29.00	29.62	30.10
2110.1	2140.1	29.29	29.96	30.42
2190.1	2220.1	29.72	30.47	31.05
2250.1	2280.1	29.98	30.98	31.43
2330.1	2360.1	30.66	31.99	32.45
2390.1	2420.1	31.54	32.99	33.61
2470.1	2500.1	32.60	34.55	35.14
2530.1	2560.1	34.02	36.34	36.64
2610.1	2640.1	36.64	38.94	37.67
2670.1	2700.1	38.46	39.58	36.99
2750.1	2780.1	41.96	39.74	35.48
2810.1	2840.1	43.29	37.30	33.92

Frequency Mixer

TUF-ED12915/4

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1500MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+7	+10	+13		+7	+10	+13		+7	+10	+13
10.1	40.1	1.83	1.83	1.77	40.1	1.55	2.18	2.89	10.0	1.59	1.35	1.14
90.1	120.1	1.20	1.09	1.06	120.1	1.49	2.08	2.72	50.0	1.61	1.37	1.16
170.1	200.1	1.20	1.08	1.02	200.1	1.45	2.00	2.61	90.0	1.65	1.41	1.19
250.1	280.1	1.23	1.13	1.09	280.1	1.45	1.99	2.59	130.0	1.63	1.38	1.18
330.1	360.1	1.28	1.20	1.16	360.1	1.46	2.00	2.61	170.0	1.69	1.45	1.24
410.1	440.1	1.38	1.30	1.26	440.1	1.49	2.03	2.63	210.0	1.70	1.46	1.24
490.1	520.1	1.50	1.41	1.36	520.1	1.54	2.07	2.65	250.0	1.72	1.48	1.28
570.1	600.1	1.69	1.60	1.54	600.1	1.58	2.10	2.65	290.0	1.79	1.55	1.33
650.1	680.1	1.92	1.80	1.71	680.1	1.61	2.11	2.63	330.0	1.75	1.51	1.30
710.1	740.1	2.15	2.00	1.88	740.1	1.65	2.14	2.65	370.0	1.84	1.60	1.39
790.1	820.1	2.44	2.30	2.16	820.1	1.70	2.18	2.68	410.0	1.89	1.63	1.40
850.1	880.1	2.73	2.55	2.41	880.1	1.74	2.20	2.68	450.0	1.90	1.65	1.42
930.1	960.1	3.09	2.82	2.62	960.1	1.79	2.21	2.67	490.0	2.02	1.75	1.51
990.1	1020.1	3.30	2.96	2.77	1020.1	1.85	2.25	2.70	530.0	2.01	1.74	1.49
1070.1	1100.1	3.56	3.20	2.95	1100.1	1.91	2.33	2.75	570.0	2.09	1.81	1.57
1130.1	1160.1	3.62	3.33	3.05	1160.1	1.96	2.38	2.80	610.0	2.14	1.85	1.59
1210.1	1240.1	3.52	3.29	3.05	1240.1	2.02	2.43	2.84	650.0	2.13	1.85	1.60
1270.1	1300.1	3.42	3.20	3.00	1300.1	2.04	2.43	2.84	690.0	2.23	1.94	1.67
1350.1	1380.1	3.22	3.02	2.83	1380.1	2.11	2.47	2.86	730.0	2.23	1.93	1.66
1410.1	1440.1	3.07	2.87	2.67	1440.1	2.17	2.52	2.90	770.0	2.28	1.98	1.71
1490.1	1520.1	2.86	2.60	2.37	1520.1	2.21	2.52	2.89	810.0	2.33	2.02	1.75
1550.1	1580.1	2.71	2.38	2.07	1580.1	2.23	2.50	2.83	850.0	2.33	2.03	1.77
1630.1	1660.1	2.58	2.14	1.85	1660.1	2.27	2.49	2.83	890.0	2.36	2.07	1.81
1690.1	1720.1	2.45	1.97	1.74	1720.1	2.30	2.52	2.86	930.0	2.33	2.05	1.81
1770.1	1800.1	2.33	1.88	1.70	1800.1	2.39	2.59	2.91	970.0	2.35	2.07	1.86
1830.1	1860.1	2.31	1.93	1.77	1860.1	2.51	2.67	2.95	1010.0	2.33	2.06	1.86
1910.1	1940.1	2.31	2.01	1.86	1940.1	2.71	2.80	3.04	1050.0	2.32	2.08	1.90
1970.1	2000.1	2.39	2.07	1.91	2000.1	2.91	2.94	3.13	1090.0	2.29	2.06	1.90
2050.1	2080.1	2.44	2.11	1.94	2080.1	3.17	3.07	3.20	1130.0	2.24	2.05	1.95
2110.1	2140.1	2.39	2.05	1.89	2140.1	3.33	3.19	3.25	1170.0	2.24	2.06	1.98
2190.1	2220.1	2.34	1.96	1.80	2220.1	3.58	3.37	3.40	1210.0	2.15	2.02	1.98
2250.1	2280.1	2.39	1.92	1.74	2280.1	3.83	3.49	3.45	1250.0	2.15	2.06	2.06
2330.1	2360.1	2.33	1.81	1.62	2360.1	4.00	3.69	3.54	1290.0	2.07	2.01	2.04
2390.1	2420.1	2.13	1.65	1.48	2420.1	4.09	3.79	3.63	1310.0	2.06	2.02	2.07
2470.1	2500.1	2.08	1.57	1.34	2500.1	4.30	3.95	3.82	1350.0	2.05	2.05	2.15
2530.1	2560.1	2.06	1.55	1.29	2560.1	4.39	4.16	3.86	1370.0	2.04	2.06	2.17
2610.1	2640.1	1.91	1.43	1.21	2640.1	4.57	4.30	4.07	1410.0	2.00	2.07	2.24
2670.1	2700.1	1.84	1.38	1.19	2700.1	4.64	4.51	4.15	1430.0	2.00	2.09	2.27
2750.1	2780.1	1.77	1.35	1.21	2780.1	4.84	4.63	4.37	1470.0	1.97	2.09	2.31
2810.1	2840.1	1.74	1.33	1.25	2840.1	4.95	4.82	4.56	1490.0	1.92	2.06	2.30

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+1	29	15	37	22	39	22	36	42	56
1	-	21	+0	34	20	36	40	44	45	47	54	51
2	82	69	44	60	43	65	66	71	48	62	62	70
3	> 90	> 73	58	69	52	71	57	> 73	58	> 73	67	> 73
4	> 90	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73
5	> 90	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73
6	> 90	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73
7	> 90	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73
8	> 90	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73
9	> 90	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73
10	> 90	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73	> 73
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 760.00 MHz; -10.00 dBm.

LO IN: 790 MHz; +10.00 dBm

IF OUT: 30 MHz; -16.90 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	10	40	26	48	34	53	38	55	55	75
1	-	21	+0	37	19	42	37	48	57	57	59	61
2	61	62	41	54	41	61	53	66	48	63	54	64
3	> 90	48	42	50	39	51	45	53	45	67	59	65
4	> 90	> 83	71	72	50	66	51	73	69	69	58	68
5	> 90	64	60	63	55	66	48	68	56	76	57	73
6	> 90	79	73	> 83	77	76	67	70	65	77	> 83	74
7	> 90	82	77	> 83	74	81	64	73	63	70	69	82
8	> 90	> 83	> 83	> 83	> 83	> 83	> 83	> 83	73	> 83	70	> 83
9	> 90	> 83	> 83	> 83	> 83	> 83	> 83	82	78	> 83	72	> 83
10	> 90	> 83	> 83	> 83	> 83	> 83	> 83	> 83	> 83	> 83	> 83	> 83
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 760.00 MHz; .00 dBm.

LO IN: 790.00 MHz; +10.00 dBm

IF OUT: 30 MHz; -6.73 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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