

Frequency Mixer

TUF-ED12914/4

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)		
		@LO (dBm)		
		+10	+13	+16
10.1	40.1	6.52	5.98	5.73
70.1	100.1	6.51	6.09	5.86
130.1	160.1	6.38	5.91	5.73
190.1	220.1	6.27	5.92	5.76
250.1	280.1	6.31	5.96	5.78
310.1	340.1	6.43	6.05	5.85
370.1	400.1	6.43	6.04	5.85
430.1	460.1	6.68	6.29	6.08
490.1	520.1	6.68	6.20	5.94
550.1	580.1	6.83	6.42	6.17
610.1	640.1	7.04	6.52	6.27
670.1	700.1	7.31	6.46	6.02
730.1	760.1	7.56	6.99	6.45
790.1	820.1	7.72	7.15	6.73
850.1	880.1	8.05	7.43	7.03
910.1	940.1	8.23	7.50	7.04
970.1	1000.1	8.21	7.06	6.61
1030.1	1060.1	8.67	7.33	6.67
1090.1	1120.1	8.65	7.63	6.88
1150.1	1180.1	8.43	7.65	6.97
1210.1	1240.1	8.26	7.63	7.03
1270.1	1300.1	8.18	7.68	7.19
1330.1	1360.1	8.19	7.71	7.31
1390.1	1420.1	8.01	7.50	7.16
1450.1	1480.1	8.14	7.61	7.30
1510.1	1540.1	8.10	7.56	7.29
1570.1	1600.1	8.04	7.41	7.01
1630.1	1660.1	8.23	7.43	6.74
1690.1	1720.1	8.12	6.79	6.30
1750.1	1780.1	8.20	6.63	6.30
1810.1	1840.1	8.03	6.58	6.32
1870.1	1900.1	8.83	6.73	6.35
1930.1	1960.1	10.03	7.15	6.59
1990.1	2020.1	10.55	7.32	6.62
2050.1	2080.1	12.38	8.00	6.82
2110.1	2140.1	13.18	8.33	6.97
2150.1	2180.1	15.01	8.76	7.03
2210.1	2240.1	15.56	9.16	7.30
2250.1	2280.1	17.46	9.74	7.32
2310.1	2340.1	18.89	10.25	7.51

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+10	+13	+16
10.1	40.1	18.48	21.10	22.55
70.1	100.1	20.93	22.55	19.41
130.1	160.1	20.85	17.05	18.47
190.1	220.1	15.70	16.82	19.18
250.1	280.1	14.45	17.03	19.52
310.1	340.1	14.64	18.08	21.95
370.1	400.1	14.90	19.35	21.96
430.1	460.1	15.71	17.25	18.69
490.1	520.1	15.09	25.91	22.25
550.1	580.1	15.73	16.42	18.09
610.1	640.1	17.83	21.14	23.23
670.1	700.1	14.68	17.94	20.51
730.1	760.1	14.47	16.06	23.37
790.1	820.1	16.56	17.20	18.83
850.1	880.1	16.83	18.09	18.91
910.1	940.1	15.61	15.75	16.19
970.1	1000.1	14.84	19.17	22.27
1030.1	1060.1	15.05	17.08	18.80
1090.1	1120.1	15.24	16.87	16.90
1150.1	1180.1	15.87	16.09	15.83
1210.1	1240.1	15.94	15.54	15.55
1270.1	1300.1	17.16	16.32	15.31
1330.1	1360.1	17.98	16.46	14.48
1390.1	1420.1	17.25	16.52	14.09
1450.1	1480.1	16.80	16.22	14.15
1510.1	1540.1	15.78	16.13	17.21
1570.1	1600.1	15.12	17.12	16.70
1630.1	1660.1	13.92	17.17	17.27
1690.1	1720.1	13.75	13.35	17.57
1750.1	1780.1	13.21	15.33	19.81
1810.1	1840.1	12.53	17.71	21.52
1870.1	1900.1	11.78	17.35	21.08
1930.1	1960.1	12.22	15.93	19.92
1990.1	2020.1	12.95	15.63	19.42
2050.1	2080.1	9.00	15.75	18.83
2110.1	2140.1	7.66	15.97	18.48
2150.1	2180.1	4.83	16.29	17.54
2210.1	2240.1	4.27	15.96	17.14
2250.1	2280.1	2.19	14.21	16.51
2310.1	2340.1	1.25	12.72	15.98

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+9dBm (dB)		
		@LO (dBm)		
		+10	+13	+16
10.1	40.1	1.70	1.42	1.25
70.1	100.1	1.56	1.29	1.18
130.1	160.1	1.75	1.50	1.28
190.1	220.1	1.79	1.43	1.24
250.1	280.1	1.87	1.51	1.31
310.1	340.1	1.77	1.49	1.32
370.1	400.1	1.93	1.64	1.46
430.1	460.1	1.82	1.57	1.41
490.1	520.1	1.95	1.75	1.56
550.1	580.1	2.10	1.77	1.61
610.1	640.1	2.14	1.85	1.66
670.1	700.1	2.12	2.20	2.03
730.1	760.1	1.93	1.73	1.77
790.1	820.1	2.00	1.74	1.70
850.1	880.1	1.76	1.58	1.53
910.1	940.1	1.79	1.64	1.59
970.1	1000.1	1.86	2.13	1.92
1030.1	1060.1	1.33	1.91	1.86
1090.1	1120.1	1.24	1.57	1.73
1150.1	1180.1	1.41	1.49	1.63
1210.1	1240.1	1.49	1.43	1.54
1270.1	1300.1	1.66	1.42	1.44
1330.1	1360.1	1.61	1.34	1.32
1390.1	1420.1	1.90	1.57	1.48
1450.1	1480.1	1.85	1.46	1.36
1510.1	1540.1	1.99	1.55	1.42
1570.1	1600.1	2.35	1.77	1.62
1630.1	1660.1	2.32	1.77	1.63
1690.1	1720.1	2.64	2.31	1.49
1750.1	1780.1	2.77	2.17	1.18
1810.1	1840.1	2.68	1.83	1.07
1870.1	1900.1	2.28	1.99	1.21
1930.1	1960.1	1.62	1.99	1.23
1990.1	2020.1	1.37	2.10	1.43
2050.1	2080.1	0.24	2.03	1.56
2110.1	2140.1	-0.30	1.88	1.55
2150.1	2180.1	-1.54	1.91	1.73
2210.1	2240.1	-2.05	1.61	1.57
2250.1	2280.1	-3.36	1.54	1.76
2310.1	2340.1	-4.53	1.20	1.66



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

REF/IF MICROWAVE COMPONENTS



REV. X2
TUF-ED12914/4
25/10/2010
Page 1 of 5

Frequency Mixer

TUF-ED12914/4

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=767MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=10MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1510.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+13			+13			+13
757.0	10.0	6.34	10.1	20.1	6.45	1490.1	20.0	9.39
737.0	30.0	6.27	50.1	60.1	5.91	1450.1	60.0	9.24
717.0	50.0	6.31	90.1	100.1	5.86	1410.1	100.0	9.06
697.0	70.0	6.39	130.1	140.1	5.70	1370.1	140.0	8.84
677.0	90.0	6.46	170.1	180.1	5.82	1330.1	180.0	8.72
657.0	110.0	6.39	210.1	220.1	5.68	1290.1	220.0	8.50
637.0	130.0	6.43	250.1	260.1	5.64	1250.1	260.0	8.42
617.0	150.0	6.46	290.1	300.1	5.79	1210.1	300.0	8.28
597.0	170.0	6.54	330.1	340.1	5.63	1170.1	340.0	8.15
577.0	190.0	6.54	370.1	380.1	5.73	1130.1	380.0	8.06
557.0	210.0	6.59	410.1	420.1	5.67	1090.1	420.0	7.99
537.0	230.0	6.55	450.1	460.1	5.70	1050.1	460.0	7.99
517.0	250.0	6.58	490.1	500.1	5.73	1010.1	500.0	7.87
497.0	270.0	6.64	530.1	540.1	5.77	970.1	540.0	7.83
477.0	290.0	6.66	570.1	580.1	5.81	930.1	580.0	7.83
457.0	310.0	6.62	610.1	620.1	5.85	890.1	620.0	7.73
437.0	330.0	6.57	650.1	660.1	5.76	850.1	660.0	7.64
417.0	350.0	6.57	690.1	700.1	5.85	810.1	700.0	7.50
397.0	370.0	6.67	730.1	740.1	5.98	770.1	740.0	7.78
377.0	390.0	6.57	770.1	780.1	6.03	730.1	780.0	7.65
357.0	410.0	6.65	810.1	820.1	6.11	690.1	820.0	7.72
337.0	430.0	6.70	850.1	860.1	6.23	650.1	860.0	7.71
317.0	450.0	6.74	890.1	900.1	6.33	610.1	900.0	7.63
297.0	470.0	6.72	930.1	940.1	6.51	570.1	940.0	7.46
277.0	490.0	6.75	970.1	980.1	6.49	530.1	980.0	7.20
257.0	510.0	6.69	1010.1	1020.1	6.60	490.1	1020.0	7.02
237.0	530.0	6.72	1050.1	1060.1	6.77	450.1	1060.0	7.06
217.0	550.0	6.82	1090.1	1100.1	6.96	410.1	1100.0	7.13
197.0	570.0	6.83	1130.1	1140.1	7.12	370.1	1140.0	7.19
177.0	590.0	6.86	1170.1	1180.1	7.28	330.1	1180.0	7.24
157.0	610.0	6.80	1210.1	1220.1	7.46	290.1	1220.0	7.32
137.0	630.0	6.83	1250.1	1260.1	7.56	250.1	1260.0	7.40
117.0	650.0	6.75	1290.1	1300.1	7.81	210.1	1300.0	7.47
107.0	660.0	6.71	1330.1	1340.1	8.03	190.1	1320.0	7.46
87.0	680.0	6.69	1370.1	1380.1	8.05	150.1	1360.0	7.49
77.0	690.0	6.63	1430.1	1440.1	8.49	130.1	1380.0	7.46
57.0	710.0	6.71	1470.1	1480.1	8.82	90.1	1420.0	7.47
47.0	720.0	6.83	1530.1	1540.1	9.25	70.1	1440.0	7.49
27.0	740.0	7.01	1570.1	1580.1	9.43	30.1	1480.0	7.54
17.0	750.0	7.08	1630.1	1640.1	9.82	10.1	1500.0	8.12



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

RF/IF MICROWAVE COMPONENTS



REV. X2
TUF-ED12914/4
25/10/2010
Page 2 of 5

Frequency Mixer

TUF-ED12914/4

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+10	+13	+16	+10	+13	+16
40.1	69.00	70.12	70.06	48.06	49.84	51.39
100.1	60.58	61.97	63.44	40.37	42.34	44.49
160.1	56.60	58.24	59.58	37.13	40.00	41.88
220.1	54.38	56.38	58.30	35.62	38.05	39.60
280.1	52.57	54.51	55.97	34.30	36.40	37.86
340.1	51.37	53.92	56.58	32.98	35.04	36.63
400.1	50.32	52.39	54.20	31.83	33.97	35.72
460.1	49.11	51.47	53.95	30.96	33.06	34.97
520.1	48.52	51.07	53.26	29.99	32.71	35.00
580.1	47.84	50.43	53.10	29.37	31.73	34.12
640.1	47.05	49.61	52.26	28.88	31.43	33.63
700.1	46.73	49.32	51.44	28.09	31.12	33.27
760.1	46.54	50.24	54.01	27.89	30.18	32.18
820.1	45.87	49.24	52.36	27.93	29.76	31.03
880.1	45.79	49.25	52.32	27.73	29.01	29.57
940.1	44.99	47.39	48.99	27.31	27.70	27.66
1000.1	44.91	47.17	48.71	26.37	25.92	25.52
1060.1	45.10	46.65	47.41	26.14	25.14	24.01
1120.1	44.84	46.12	47.13	25.45	24.43	22.92
1180.1	44.67	46.04	46.92	24.79	23.79	22.32
1240.1	45.17	46.98	48.19	23.91	22.99	21.68
1300.1	45.80	48.28	49.91	23.31	22.47	21.23
1360.1	46.30	48.82	50.96	22.35	21.61	20.51
1420.1	47.09	49.14	50.88	21.05	20.57	19.67
1480.1	46.64	48.88	49.93	19.69	19.36	18.72
1540.1	37.48	38.95	40.95	19.27	18.81	18.04
1600.1	38.49	40.25	43.11	17.53	17.25	16.38
1660.1	38.83	41.69	45.41	16.15	15.71	14.69
1720.1	38.88	43.06	45.87	14.95	14.43	13.85
1780.1	39.03	42.66	44.92	13.70	13.47	13.04
1840.1	38.69	41.90	44.27	12.56	12.47	12.38
1900.1	37.16	40.43	43.10	11.90	11.82	11.82
1960.1	35.52	39.06	41.83	11.38	11.23	11.25
2020.1	34.58	38.06	41.14	10.74	10.75	10.70
2080.1	33.13	36.34	39.81	10.33	10.40	10.39
2140.1	32.41	35.16	38.49	9.93	9.95	10.03
2180.1	31.74	34.12	37.56	9.63	9.75	9.85
2240.1	31.40	33.61	36.97	9.23	9.29	9.54
2280.1	30.93	32.72	36.13	9.03	9.16	9.24
2340.1	30.63	32.11	35.31	8.82	8.88	8.97

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+10	+13	+16
10.1	40.1	80.48	71.73	74.23
70.1	100.1	51.16	50.47	50.30
130.1	160.1	46.46	46.16	46.05
190.1	220.1	43.47	43.47	42.64
250.1	280.1	41.23	40.97	40.76
310.1	340.1	39.36	38.75	38.32
370.1	400.1	37.79	37.54	37.48
430.1	460.1	36.10	35.72	35.58
490.1	520.1	34.30	34.02	34.00
550.1	580.1	33.36	32.76	32.46
610.1	640.1	33.11	32.99	32.70
670.1	700.1	32.11	31.97	31.69
730.1	760.1	30.66	30.40	30.19
790.1	820.1	29.81	29.40	29.12
850.1	880.1	30.02	29.69	29.30
910.1	940.1	30.83	30.45	30.25
970.1	1000.1	32.60	32.05	31.59
1030.1	1060.1	35.04	34.32	33.85
1090.1	1120.1	35.69	36.74	36.85
1150.1	1180.1	33.78	35.37	36.69
1210.1	1240.1	31.39	32.43	33.85
1270.1	1300.1	29.03	29.75	30.69
1330.1	1360.1	27.51	27.99	28.67
1390.1	1420.1	26.32	26.60	27.08
1450.1	1480.1	25.00	25.21	25.55
1510.1	1540.1	24.87	24.50	24.18
1570.1	1600.1	25.90	25.75	25.44
1630.1	1660.1	25.31	25.37	25.26
1690.1	1720.1	25.11	25.29	25.14
1750.1	1780.1	25.45	25.43	25.41
1810.1	1840.1	25.91	26.00	26.01
1870.1	1900.1	26.12	26.59	26.71
1930.1	1960.1	26.24	27.21	27.51
1990.1	2020.1	26.45	27.94	28.45
2050.1	2080.1	26.07	28.21	28.99
2110.1	2140.1	26.06	28.58	29.69
2150.1	2180.1	25.57	28.53	29.96
2210.1	2240.1	25.99	29.15	30.91
2250.1	2280.1	25.68	28.96	31.23
2310.1	2340.1	26.00	29.35	32.02



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

RF/IF MICROWAVE COMPONENTS



REV. X2
TUF-ED12914/4
25/10/2010
Page 3 of 5

Frequency Mixer

TUF-ED12914/4

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)		
		+10	+13	+16		+10	+13	+16		+10	+13	+16
10.1	40.1	1.46	1.42	1.34	40.1	1.66	2.54	3.69	10.0	1.54	1.31	1.11
70.1	100.1	1.14	1.08	1.12	100.1	1.53	2.25	3.20	50.0	1.56	1.31	1.10
130.1	160.1	1.19	1.06	1.01	160.1	1.57	2.33	3.33	90.0	1.57	1.33	1.11
190.1	220.1	1.21	1.12	1.10	220.1	1.56	2.32	3.30	130.0	1.58	1.34	1.12
250.1	280.1	1.24	1.17	1.14	280.1	1.54	2.25	3.14	170.0	1.58	1.34	1.12
310.1	340.1	1.34	1.27	1.23	340.1	1.61	2.32	3.19	210.0	1.61	1.36	1.15
370.1	400.1	1.41	1.35	1.32	400.1	1.62	2.29	3.09	250.0	1.60	1.35	1.15
430.1	460.1	1.51	1.44	1.40	460.1	1.68	2.30	3.05	290.0	1.63	1.38	1.18
490.1	520.1	1.65	1.56	1.50	520.1	1.73	2.33	3.02	330.0	1.63	1.39	1.18
550.1	580.1	1.79	1.71	1.66	580.1	1.76	2.31	2.96	370.0	1.66	1.41	1.21
610.1	640.1	1.97	1.87	1.81	640.1	1.83	2.32	2.90	410.0	1.70	1.44	1.23
670.1	700.1	2.24	2.03	1.91	700.1	1.88	2.35	2.86	450.0	1.70	1.46	1.25
730.1	760.1	2.46	2.32	2.16	760.1	1.89	2.34	2.85	490.0	1.75	1.51	1.29
790.1	820.1	2.74	2.60	2.47	820.1	1.95	2.36	2.84	530.0	1.75	1.51	1.30
850.1	880.1	3.06	2.89	2.77	880.1	1.97	2.31	2.73	570.0	1.79	1.56	1.34
910.1	940.1	3.25	3.02	2.86	940.1	2.02	2.29	2.64	610.0	1.80	1.56	1.34
970.1	1000.1	3.48	3.10	2.92	1000.1	2.07	2.30	2.63	650.0	1.79	1.57	1.35
1030.1	1060.1	3.76	3.28	3.03	1060.1	2.14	2.41	2.69	690.0	1.83	1.60	1.38
1090.1	1120.1	3.96	3.56	3.25	1120.1	2.15	2.44	2.73	730.0	1.80	1.58	1.36
1150.1	1180.1	3.95	3.65	3.33	1180.1	2.16	2.40	2.68	770.0	1.84	1.62	1.39
1210.1	1240.1	3.82	3.56	3.28	1240.1	2.21	2.43	2.71	810.0	1.83	1.60	1.37
1270.1	1300.1	3.90	3.69	3.43	1300.1	2.22	2.41	2.66	850.0	1.81	1.59	1.37
1330.1	1360.1	3.67	3.47	3.22	1360.1	2.25	2.42	2.65	890.0	1.82	1.59	1.37
1390.1	1420.1	3.65	3.42	3.17	1420.1	2.30	2.44	2.66	930.0	1.75	1.53	1.33
1450.1	1480.1	3.52	3.29	3.05	1480.1	2.31	2.40	2.61	970.0	1.77	1.56	1.36
1510.1	1540.1	3.20	2.95	2.69	1540.1	2.32	2.39	2.59	1010.0	1.70	1.49	1.32
1570.1	1600.1	3.30	2.95	2.60	1600.1	2.34	2.35	2.52	1050.0	1.67	1.48	1.33
1630.1	1660.1	3.12	2.59	2.24	1660.1	2.32	2.27	2.42	1090.0	1.65	1.47	1.33
1690.1	1720.1	2.90	2.22	2.02	1720.1	2.34	2.29	2.49	1130.0	1.55	1.40	1.33
1750.1	1780.1	2.68	2.11	1.95	1780.1	2.46	2.40	2.53	1170.0	1.54	1.40	1.35
1810.1	1840.1	2.51	2.02	1.85	1840.1	2.73	2.56	2.62	1210.0	1.44	1.34	1.35
1870.1	1900.1	2.76	2.08	1.88	1900.1	3.01	2.72	2.71	1250.0	1.40	1.33	1.39
1930.1	1960.1	2.93	2.13	1.87	1960.1	3.10	2.79	2.72	1290.0	1.33	1.30	1.40
1990.1	2020.1	2.93	2.14	1.85	2020.1	3.23	2.94	2.84	1310.0	1.31	1.31	1.45
2050.1	2080.1	3.26	2.29	1.92	2080.1	3.26	3.01	2.86	1350.0	1.29	1.33	1.49
2110.1	2140.1	3.12	2.20	1.85	2140.1	3.30	3.07	2.93	1370.0	1.25	1.31	1.49
2150.1	2180.1	3.48	2.36	1.92	2180.1	3.33	3.13	2.96	1410.0	1.23	1.36	1.58
2210.1	2240.1	3.15	2.19	1.80	2240.1	3.40	3.21	3.04	1430.0	1.25	1.39	1.63
2250.1	2280.1	3.40	2.33	1.84	2280.1	3.40	3.24	3.07	1470.0	1.27	1.44	1.69
2310.1	2340.1	3.16	2.18	1.72	2340.1	3.45	3.31	3.14	1490.0	1.34	1.53	1.81



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

RF/IF MICROWAVE COMPONENTS



REV. X2
TUF-ED12914/4
25/10/2010
Page 4 of 5

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)											
0	-	-	4	34	12	45	23	62	38	>77	43	69
1	-	23	+0	36	19	37	42	45	45	58	60	62
2	75	69	43	61	41	60	55	74	49	>77	73	>77
3	89	71	57	73	51	72	52	74	61	76	68	>77
4	>90	>77	>77	>77	76	>77	>77	>77	>77	>77	>77	>77
5	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
6	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
7	>90	>77	>77	>77	>77	>77	>77	75	>77	>77	>77	>77
8	>90	>77	>77	>77	>77	>77	>77	>77	74	>77	77	>77
9	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
10	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions: RF IN: 760 MHz; -6.00 dBm.
LO IN: 790 MHz; +13.00 dBm
IF OUT: 30 MHz; -13.19 dBm

RF HARMONICS ORDER

	(-dBm)											
0	-	-	14	43	24	58	35	79	52	>87	56	87
1	-	23	+0	38	18	45	45	49	54	71	66	71
2	54	57	36	57	35	60	44	69	49	72	70	>87
3	84	46	38	56	40	57	40	53	49	67	59	71
4	>90	>87	62	63	48	61	49	65	73	79	60	84
5	>90	69	62	64	49	68	45	71	49	86	57	72
6	>90	>87	75	82	76	75	59	76	55	77	71	82
7	>90	>87	74	>87	73	73	60	73	59	84	63	76
8	>90	>87	>87	>87	82	>87	82	80	62	83	65	77
9	>90	>87	>87	>87	>87	>87	>87	>87	69	>87	65	83
10	>90	>87	>87	>87	>87	>87	>87	>87	81	80	71	85
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions: RF IN: 760 MHz; 4.00 dBm.
LO IN: 790 MHz; +13.00 dBm
IF OUT: 30 MHz; -3.01 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



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

RF/IF MICROWAVE COMPONENTS