

Frequency Mixer

TUF-ED12914/3

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	4.81	4.53	4.53
30.1	60.1	5.04	4.80	4.66
50.1	80.1	4.99	4.75	4.65
70.1	100.1	4.95	4.75	4.66
90.1	120.1	4.93	4.77	4.70
110.1	140.1	5.00	4.77	4.70
130.1	160.1	5.08	4.92	4.81
150.1	180.1	5.12	4.92	4.82
170.1	200.1	5.00	4.87	4.81
190.1	220.1	5.03	4.89	4.81
210.1	240.1	5.24	4.98	4.79
230.1	260.1	5.47	5.12	4.86
250.1	280.1	5.45	5.31	5.15
270.1	300.1	5.42	5.30	5.22
290.1	320.1	5.45	5.32	5.22
310.1	340.1	5.43	5.26	5.14
330.1	360.1	5.53	5.30	5.22
350.1	380.1	5.84	5.45	5.36
370.1	400.1	6.26	5.60	5.37
390.1	420.1	6.50	6.06	5.45
410.1	440.1	6.65	6.48	5.84
430.1	460.1	6.87	6.63	6.11
450.1	480.1	7.01	6.67	6.23
470.1	500.1	7.49	7.04	6.56
490.1	520.1	7.82	7.30	6.79
510.1	540.1	8.12	7.39	6.88
530.1	560.1	8.03	7.19	6.94
550.1	580.1	7.95	7.25	7.00
570.1	600.1	7.80	7.33	6.94
580.1	610.1	7.83	7.33	6.91
600.1	630.1	8.00	7.47	7.19
610.1	640.1	7.86	7.44	7.26
630.1	660.1	8.13	7.83	7.72
640.1	670.1	8.52	8.25	8.16
660.1	690.1	8.90	8.70	8.70
670.1	700.1	8.83	8.64	8.70
690.1	720.1	9.32	9.14	9.22
700.1	730.1	9.72	9.58	9.67
720.1	750.1	10.21	10.13	10.27
730.1	760.1	10.36	10.23	10.29

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+10	+13	+16
10.1	40.1	21.61	23.02	27.43
30.1	60.1	22.32	23.43	24.40
50.1	80.1	27.78	27.23	24.68
70.1	100.1	25.02	28.42	21.52
90.1	120.1	27.57	26.35	21.74
110.1	140.1	25.22	20.45	18.29
130.1	160.1	19.72	16.91	16.02
150.1	180.1	23.78	25.55	23.11
170.1	200.1	14.83	13.87	14.62
190.1	220.1	15.93	14.80	14.78
210.1	240.1	22.92	21.39	20.11
230.1	260.1	15.51	20.84	27.48
250.1	280.1	15.25	13.98	14.23
270.1	300.1	16.17	15.96	16.00
290.1	320.1	16.77	17.36	18.29
310.1	340.1	16.81	16.07	18.91
330.1	360.1	17.94	18.30	21.64
350.1	380.1	17.84	24.34	23.92
370.1	400.1	10.42	19.72	30.67
390.1	420.1	6.25	10.53	25.76
410.1	440.1	5.67	6.76	11.43
430.1	460.1	5.89	6.58	8.97
450.1	480.1	6.17	6.82	8.22
470.1	500.1	6.57	7.01	8.06
490.1	520.1	7.54	8.00	8.56
510.1	540.1	9.78	10.47	11.70
530.1	560.1	12.42	12.74	15.18
550.1	580.1	13.91	14.82	17.97
570.1	600.1	12.97	17.15	19.56
580.1	610.1	13.91	17.55	18.89
600.1	630.1	15.44	16.66	18.57
610.1	640.1	15.47	16.44	17.67
630.1	660.1	15.83	16.09	16.66
640.1	670.1	14.96	14.94	15.25
660.1	690.1	14.43	13.73	13.83
670.1	700.1	14.09	13.21	13.07
690.1	720.1	13.65	12.89	12.42
700.1	730.1	13.33	12.57	12.26
720.1	750.1	13.20	12.48	12.21
730.1	760.1	13.12	12.68	12.92

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+8dBm (dB)		
		@LO (dBm)		
		+10	+13	+16
10.1	40.1	1.46	1.17	1.15
30.1	60.1	1.30	1.09	0.96
50.1	80.1	1.32	1.10	0.98
70.1	100.1	1.35	1.09	0.94
90.1	120.1	1.28	1.04	0.90
110.1	140.1	1.21	0.99	0.85
130.1	160.1	1.14	0.88	0.80
150.1	180.1	1.12	0.93	0.80
170.1	200.1	1.17	0.97	0.83
190.1	220.1	1.14	0.92	0.84
210.1	240.1	0.99	0.79	0.73
230.1	260.1	0.89	0.85	0.74
250.1	280.1	1.09	0.90	0.81
270.1	300.1	1.28	1.08	0.96
290.1	320.1	1.46	1.16	1.04
310.1	340.1	1.76	1.32	1.13
330.1	360.1	2.09	1.42	1.22
350.1	380.1	2.22	1.54	1.29
370.1	400.1	2.18	1.89	1.51
390.1	420.1	2.37	1.98	1.77
410.1	440.1	2.60	2.10	1.92
430.1	460.1	2.48	2.14	2.05
450.1	480.1	2.42	2.22	2.14
470.1	500.1	2.07	2.01	2.04
490.1	520.1	1.83	1.86	1.90
510.1	540.1	1.65	1.78	1.70
530.1	560.1	1.73	1.86	1.50
550.1	580.1	1.84	1.68	1.32
570.1	600.1	1.96	1.52	1.42
580.1	610.1	2.02	1.60	1.53
600.1	630.1	1.98	1.62	1.47
610.1	640.1	2.07	1.69	1.46
630.1	660.1	1.86	1.47	1.24
640.1	670.1	1.76	1.37	1.11
660.1	690.1	1.61	1.20	0.90
670.1	700.1	1.64	1.27	0.94
690.1	720.1	1.54	1.19	0.90
700.1	730.1	1.42	1.09	0.83
720.1	750.1	1.34	1.03	0.81
730.1	760.1	1.41	1.14	0.97



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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=210.1MHz (dB)
		@LO (dBm) +13
200.1	10.0	5.11
195.2	14.9	5.11
190.4	19.7	4.96
185.5	24.6	4.98
180.6	29.5	4.93
175.7	34.4	4.85
170.9	39.2	4.88
166.0	44.1	4.84
161.1	49.0	4.84
156.3	53.8	4.88
151.4	58.7	4.84
146.5	63.6	4.84
141.6	68.5	4.86
136.8	73.3	4.82
131.9	78.2	4.80
127.0	83.1	4.84
122.2	87.9	4.80
117.3	92.8	4.81
112.4	97.7	4.90
107.5	102.6	4.83
102.7	107.4	4.83
97.8	112.3	4.88
92.9	117.2	4.78
88.0	122.1	4.82
83.2	126.9	4.87
78.3	131.8	4.83
73.4	136.7	4.89
68.6	141.5	4.94
63.7	146.4	4.91
58.8	151.3	4.92
53.9	156.2	4.92
49.1	161.0	4.85
44.2	165.9	4.88
39.3	170.8	4.87
34.5	175.6	4.85
29.6	180.5	4.91
24.7	185.4	4.90
19.8	190.3	4.94
15.0	195.1	5.05
10.1	200.0	5.15

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=10MHz (dB)
		@LO (dBm) +13
10.1	20.1	4.69
30.6	40.6	4.57
51.1	61.1	4.63
71.6	81.6	4.64
92.1	102.1	4.62
112.5	122.5	4.77
133.0	143.0	4.65
153.5	163.5	4.72
174.0	184.0	4.86
194.5	204.5	4.82
215.0	225.0	4.73
235.5	245.5	4.75
256.0	266.0	5.12
276.4	286.4	5.32
296.9	306.9	5.39
317.4	327.4	5.15
337.9	347.9	5.00
358.4	368.4	4.89
378.9	388.9	4.70
399.4	409.4	4.86
419.9	429.9	4.93
440.3	450.3	4.78
460.8	470.8	4.88
481.3	491.3	4.91
501.8	511.8	4.96
522.3	532.3	5.04
542.8	552.8	4.99
563.3	573.3	4.85
583.8	593.8	5.12
604.2	614.2	5.16
624.7	634.7	5.19
645.2	655.2	5.18
665.7	675.7	5.22
686.2	696.2	5.45
706.7	716.7	5.73
727.2	737.2	5.96
747.7	757.7	6.24
768.1	778.1	7.24
788.6	798.6	7.80
809.1	819.1	8.22
829.6	839.6	9.22
850.1	860.1	10.55

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=410.1MHz (dB)
		@LO (dBm) +13
400.1	10.0	6.19
390.1	20.0	6.07
380.1	30.0	6.00
370.1	40.0	5.91
360.1	50.0	5.89
350.1	60.0	5.86
340.1	70.0	5.87
330.1	80.0	5.80
320.1	90.0	5.79
310.1	100.0	5.86
300.1	110.0	5.83
290.1	120.0	5.79
280.1	130.0	5.80
270.1	140.0	5.83
260.1	150.0	5.80
250.1	160.0	5.87
240.1	170.0	5.94
230.1	180.0	5.91
220.1	190.0	5.90
210.1	200.0	6.00
200.1	210.0	6.07
190.1	220.0	6.00
180.1	230.0	5.96
170.1	240.0	6.01
160.1	250.0	5.97
150.1	260.0	5.92
140.1	270.0	5.90
130.1	280.0	5.90
120.1	290.0	5.85
110.1	300.0	5.86
100.1	310.0	5.92
90.1	320.0	5.89
80.1	330.0	5.87
70.1	340.0	5.84
60.1	350.0	5.75
50.1	360.0	5.65
40.1	370.0	5.59
30.1	380.0	5.58
20.1	390.0	5.58
10.1	400.0	5.86



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LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+10	+13	+16	+10	+13	+16
40.1	57.96	58.42	59.03	57.76	56.88	56.01
60.1	55.43	56.17	56.93	53.73	52.64	52.46
80.1	53.53	54.33	54.82	50.62	50.20	50.58
100.1	52.11	52.97	53.70	47.79	47.93	48.55
120.1	50.46	51.76	52.20	46.73	47.53	47.75
140.1	48.90	49.28	49.81	44.80	45.66	45.98
160.1	48.81	49.42	49.70	44.68	45.40	45.65
180.1	47.45	49.02	49.65	44.21	45.20	44.45
200.1	45.13	45.93	46.48	44.19	45.43	45.19
220.1	43.34	44.08	44.88	43.71	44.15	43.81
240.1	43.46	43.47	44.02	44.40	43.84	42.07
260.1	46.14	45.68	45.22	41.96	40.92	39.76
280.1	45.58	46.01	45.88	39.95	39.54	38.59
300.1	48.68	48.06	47.02	38.70	37.85	37.13
320.1	48.09	47.45	47.08	37.35	35.99	35.23
340.1	48.71	46.62	44.28	39.02	34.68	32.09
360.1	45.43	45.23	45.01	36.58	31.75	30.19
380.1	42.03	41.92	41.64	39.63	31.72	29.43
400.1	41.46	42.50	43.98	42.90	32.63	29.31
420.1	40.26	40.24	39.79	43.24	34.51	29.44
440.1	41.15	42.54	43.38	40.01	35.44	29.11
460.1	40.35	41.35	41.60	37.56	34.76	30.69
480.1	39.95	41.02	41.80	35.04	32.61	30.21
500.1	38.27	38.89	38.80	34.11	32.22	29.94
520.1	37.67	37.98	37.16	32.87	31.21	28.38
540.1	36.61	36.67	35.20	31.88	30.16	25.50
560.1	35.06	34.10	31.53	30.75	27.78	22.16
580.1	34.46	32.86	30.09	28.75	24.50	19.89
600.1	33.13	30.65	28.61	27.91	22.57	19.40
610.1	32.89	30.29	28.44	27.12	21.98	19.26
630.1	32.06	29.65	28.23	26.03	21.68	19.47
640.1	31.04	28.87	27.18	25.24	21.53	19.14
660.1	29.29	27.76	26.32	22.89	20.43	18.33
670.1	28.01	26.78	25.27	21.71	19.84	17.73
690.1	26.31	25.23	24.00	19.96	18.52	16.81
700.1	25.29	24.58	23.32	19.07	18.06	16.33
720.1	23.80	23.20	22.25	17.84	17.05	15.73
730.1	22.96	22.56	21.62	17.33	16.75	15.49
750.1	21.48	21.48	20.54	16.22	16.11	14.80
760.1	20.89	20.85	20.02	15.99	15.87	14.75

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+10	+13	+16
10.1	40.1	39.10	38.40	37.97
30.1	60.1	32.28	32.32	32.11
50.1	80.1	28.08	28.64	28.84
70.1	100.1	26.86	26.64	26.99
90.1	120.1	25.02	25.68	25.33
110.1	140.1	24.27	23.95	24.37
130.1	160.1	23.92	24.03	24.17
150.1	180.1	23.54	24.20	24.68
170.1	200.1	23.13	23.90	24.60
190.1	220.1	22.80	23.18	23.58
210.1	240.1	23.72	24.15	24.67
230.1	260.1	25.16	25.60	25.83
250.1	280.1	27.25	27.63	28.40
270.1	300.1	26.56	26.97	27.65
290.1	320.1	23.12	23.31	23.68
310.1	340.1	20.66	20.70	20.94
330.1	360.1	18.66	18.71	18.92
350.1	380.1	17.73	17.75	17.63
370.1	400.1	17.17	16.66	16.69
390.1	420.1	16.65	16.41	16.09
410.1	440.1	16.18	16.32	16.46
430.1	460.1	15.98	16.16	16.50
450.1	480.1	16.10	16.05	16.26
470.1	500.1	16.38	16.35	16.56
490.1	520.1	16.47	16.51	16.56
510.1	540.1	16.22	16.11	16.05
530.1	560.1	15.55	15.26	15.11
550.1	580.1	14.57	14.15	13.81
570.1	600.1	13.37	12.89	12.46
580.1	610.1	12.90	12.45	12.03
600.1	630.1	12.06	11.71	11.50
610.1	640.1	11.80	11.48	11.18
630.1	660.1	11.12	10.98	10.53
640.1	670.1	10.83	10.61	10.18
660.1	690.1	10.18	9.90	9.44
670.1	700.1	9.91	9.60	9.18
690.1	720.1	9.12	8.84	8.54
700.1	730.1	8.83	8.48	8.17
720.1	750.1	8.16	7.77	7.41
730.1	760.1	7.82	7.45	7.15



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RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+10	+13	+16
10.1	40.1	1.45	1.29	1.17
30.1	60.1	1.37	1.24	1.15
50.1	80.1	1.37	1.23	1.14
70.1	100.1	1.36	1.22	1.13
90.1	120.1	1.31	1.17	1.10
110.1	140.1	1.30	1.16	1.10
130.1	160.1	1.25	1.16	1.09
150.1	180.1	1.25	1.10	1.03
170.1	200.1	1.22	1.12	1.04
190.1	220.1	1.18	1.11	1.07
210.1	240.1	1.14	1.05	1.04
230.1	260.1	1.16	1.02	1.07
250.1	280.1	1.11	1.04	1.04
270.1	300.1	1.03	1.03	1.08
290.1	320.1	1.04	1.10	1.16
310.1	340.1	1.10	1.19	1.27
330.1	360.1	1.15	1.24	1.28
350.1	380.1	1.11	1.21	1.24
370.1	400.1	1.09	1.13	1.16
390.1	420.1	1.17	1.09	1.08
410.1	440.1	1.26	1.18	1.09
430.1	460.1	1.33	1.25	1.15
450.1	480.1	1.41	1.33	1.24
470.1	500.1	1.57	1.47	1.35
490.1	520.1	1.67	1.56	1.43
510.1	540.1	1.81	1.68	1.58
530.1	560.1	1.86	1.73	1.69
550.1	580.1	1.94	1.85	1.83
570.1	600.1	2.03	1.98	1.94
580.1	610.1	2.13	2.07	2.02
600.1	630.1	2.25	2.18	2.14
610.1	640.1	2.23	2.17	2.14
630.1	660.1	2.30	2.25	2.21
640.1	670.1	2.42	2.36	2.31
660.1	690.1	2.48	2.43	2.38
670.1	700.1	2.45	2.40	2.36
690.1	720.1	2.48	2.43	2.40
700.1	730.1	2.52	2.46	2.43
720.1	750.1	2.50	2.44	2.40
730.1	760.1	2.47	2.39	2.34

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+10	+13	+16
40.1	1.51	2.41	3.57
60.1	1.45	2.24	3.27
80.1	1.40	2.12	3.05
100.1	1.42	2.14	3.09
120.1	1.45	2.25	3.27
140.1	1.50	2.29	3.30
160.1	1.47	2.20	3.15
180.1	1.48	2.17	3.06
200.1	1.50	2.23	3.16
220.1	1.55	2.30	3.26
240.1	1.60	2.28	3.18
260.1	1.61	2.30	3.15
280.1	1.60	2.30	3.19
300.1	1.63	2.35	3.26
320.1	1.67	2.37	3.28
340.1	1.68	2.32	3.18
360.1	1.73	2.32	3.16
380.1	1.86	2.43	3.25
400.1	1.97	2.60	3.40
420.1	1.98	2.71	3.50
440.1	1.97	2.70	3.56
460.1	1.98	2.71	3.57
480.1	2.01	2.75	3.63
500.1	2.04	2.78	3.67
520.1	2.04	2.76	3.63
540.1	2.03	2.73	3.56
560.1	2.04	2.72	3.51
580.1	2.05	2.72	3.48
600.1	2.04	2.67	3.44
610.1	2.02	2.64	3.41
630.1	1.99	2.60	3.38
640.1	2.00	2.61	3.40
660.1	2.06	2.69	3.45
670.1	2.12	2.73	3.49
690.1	2.25	2.82	3.54
700.1	2.32	2.86	3.55
720.1	2.47	2.93	3.57
730.1	2.56	2.98	3.59
750.1	2.73	3.10	3.65
760.1	2.81	3.16	3.70

IF (OUT) (MHz)	IF VSWR @LO=400MHz (:1)		
	@LO (dBm)		
	+10	+13	+16
10.0	2.20	1.64	1.44
19.7	2.21	1.64	1.43
29.5	2.20	1.62	1.41
39.2	2.25	1.67	1.46
49.0	2.23	1.66	1.46
58.7	2.23	1.65	1.45
68.5	2.24	1.70	1.50
78.2	2.25	1.70	1.51
87.9	2.24	1.69	1.50
97.7	2.25	1.73	1.55
107.4	2.25	1.72	1.54
117.2	2.25	1.72	1.55
126.9	2.31	1.79	1.62
136.7	2.33	1.82	1.64
146.4	2.30	1.81	1.65
156.2	2.31	1.83	1.69
165.9	2.31	1.84	1.70
175.6	2.27	1.83	1.69
185.4	2.28	1.86	1.74
195.1	2.29	1.86	1.74
204.9	2.27	1.85	1.73
214.6	2.33	1.92	1.81
224.4	2.34	1.95	1.85
234.1	2.27	1.90	1.82
243.8	2.31	1.92	1.84
253.6	2.29	1.94	1.86
263.3	2.20	1.88	1.82
273.1	2.26	1.90	1.84
282.8	2.26	1.91	1.84
292.6	2.19	1.86	1.80
302.3	2.27	1.93	1.87
312.1	2.26	1.93	1.88
321.8	2.21	1.88	1.82
331.5	2.27	1.94	1.89
341.3	2.19	1.89	1.86
351.0	2.15	1.81	1.76
360.8	2.24	1.89	1.82
370.5	2.15	1.84	1.79
380.3	2.14	1.79	1.72
390.0	2.27	1.90	1.82



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Harmonics Tables

RF HARMONICS ORDER

(-dBm)												
0	-	-	17	25	12	35	18	43	32	43	36	45
1	-	18	+0	23	11	37	21	39	61	43	38	50
2	80	70	65	69	62	72	52	71	62	>77	67	73
3	>90	64	64	67	66	68	61	65	63	76	64	>77
4	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
5	>90	>77	>77	>77	74	77	75	>77	>77	>77	>77	>77
6	>90	>77	>77	>77	>77	>77	76	>77	>77	>77	>77	>77
7	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
8	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
9	>90	>77	>77	>77	>77	>77	>77	>77	77	71	>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: 200 MHz; -8.00 dBm.
LO IN: 230 MHz; +13.00 dBm
IF OUT: 30 MHz; -13.01 dBm

RF HARMONICS ORDER

(-dBm)												
0	-	-	25	36	23	47	29	54	46	55	46	55
1	-	19	+0	26	11	40	21	43	42	46	45	57
2	61	55	49	61	48	55	43	59	53	72	60	69
3	>90	44	37	43	39	43	36	45	55	52	55	58
4	>90	68	67	75	62	74	61	71	59	75	78	79
5	>90	70	59	67	56	60	52	60	48	61	55	73
6	>90	83	81	77	73	>87	70	>87	70	73	69	80
7	>90	>87	75	78	63	68	66	67	62	64	63	67
8	>90	>87	86	>87	82	81	78	78	77	84	74	81
9	>90	>87	86	>87	79	86	74	79	70	68	72	72
10	>90	>87	>87	>87	>87	>87	>87	81	>87	85	>87	83
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions: RF IN: 200 MHz; 2.00 dBm.
LO IN: 230 MHz; +13.00 dBm
IF OUT: 30 MHz; -3.02 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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