

Frequency Mixer

TUF-ED12915/2

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	6.58	6.07	5.76	10.1	40.1	20.59	22.49	23.23	10.1	40.1	1.16	0.73	0.51
50.1	80.1	6.68	6.19	5.92	50.1	80.1	20.91	22.28	22.80	50.1	80.1	0.95	0.69	0.51
90.1	120.1	6.61	6.11	5.89	90.1	120.1	19.74	20.96	22.87	90.1	120.1	0.97	0.71	0.48
130.1	160.1	6.58	6.11	5.87	130.1	160.1	19.51	21.03	26.74	130.1	160.1	0.93	0.65	0.44
170.1	200.1	6.55	6.07	5.87	170.1	200.1	19.56	23.00	21.53	170.1	200.1	0.97	0.68	0.48
210.1	240.1	6.51	6.05	5.85	210.1	240.1	19.49	23.00	19.49	210.1	240.1	0.94	0.67	0.45
250.1	280.1	6.53	6.08	5.89	250.1	280.1	20.57	21.11	18.53	250.1	280.1	0.97	0.65	0.45
290.1	320.1	6.40	6.02	5.88	290.1	320.1	19.42	17.48	18.37	290.1	320.1	0.98	0.66	0.43
330.1	360.1	6.42	6.06	5.89	330.1	360.1	20.12	17.03	18.37	330.1	360.1	0.94	0.59	0.39
370.1	400.1	6.39	6.06	5.92	370.1	400.1	17.73	16.99	19.80	370.1	400.1	1.01	0.63	0.42
410.1	440.1	6.41	6.09	5.95	410.1	440.1	16.01	16.27	18.95	410.1	440.1	0.97	0.60	0.41
450.1	480.1	6.39	6.07	5.95	450.1	480.1	15.06	15.78	18.52	450.1	480.1	0.98	0.60	0.41
490.1	520.1	6.40	6.09	5.95	490.1	520.1	14.55	15.92	18.03	490.1	520.1	0.92	0.59	0.42
530.1	560.1	6.48	6.18	6.01	530.1	560.1	13.89	16.08	17.96	530.1	560.1	0.87	0.54	0.39
570.1	600.1	6.55	6.22	6.02	570.1	600.1	14.16	17.03	18.85	570.1	600.1	0.88	0.59	0.45
610.1	640.1	6.58	6.26	6.06	610.1	640.1	14.46	17.59	19.16	610.1	640.1	0.95	0.65	0.50
650.1	680.1	6.58	6.28	6.12	650.1	680.1	14.15	16.15	17.42	650.1	680.1	1.12	0.79	0.59
690.1	720.1	6.60	6.33	6.18	690.1	720.1	13.66	14.92	15.66	690.1	720.1	1.19	0.84	0.62
730.1	760.1	6.68	6.41	6.26	730.1	760.1	13.07	14.45	15.24	730.1	760.1	1.33	0.92	0.67
770.1	800.1	6.77	6.48	6.32	770.1	800.1	12.92	15.27	16.97	770.1	800.1	1.44	1.03	0.73
810.1	840.1	6.89	6.58	6.39	810.1	840.1	12.30	15.80	19.70	810.1	840.1	1.48	1.10	0.80
850.1	880.1	7.06	6.70	6.46	850.1	880.1	11.66	14.65	18.15	850.1	880.1	1.57	1.18	0.92
890.1	920.1	7.19	6.83	6.57	890.1	920.1	11.04	12.73	14.46	890.1	920.1	1.60	1.20	0.93
930.1	960.1	7.34	6.99	6.72	930.1	960.1	10.41	11.43	12.77	930.1	960.1	1.63	1.21	0.90
970.1	1000.1	7.53	7.14	6.85	970.1	1000.1	10.24	11.32	12.97	970.1	1000.1	1.58	1.12	0.83
1010.1	1040.1	7.63	7.16	6.84	1010.1	1040.1	10.57	12.27	14.77	1010.1	1040.1	1.66	1.22	0.92
1050.1	1080.1	7.66	7.06	6.71	1050.1	1080.1	11.77	14.55	19.54	1050.1	1080.1	1.66	1.28	1.00
1090.1	1120.1	7.55	6.90	6.58	1090.1	1120.1	13.74	18.48	20.69	1090.1	1120.1	1.81	1.43	1.08
1130.1	1160.1	7.46	6.79	6.49	1130.1	1160.1	15.53	19.23	17.44	1130.1	1160.1	1.97	1.55	1.17
1170.1	1200.1	7.49	6.80	6.48	1170.1	1200.1	15.45	18.00	17.24	1170.1	1200.1	2.06	1.61	1.22
1210.1	1240.1	7.61	6.85	6.53	1210.1	1240.1	15.26	18.28	18.06	1210.1	1240.1	2.08	1.65	1.25
1250.1	1280.1	7.82	6.94	6.61	1250.1	1280.1	14.83	18.19	19.14	1250.1	1280.1	1.98	1.68	1.30
1290.1	1320.1	8.19	7.17	6.79	1290.1	1320.1	14.15	17.37	19.76	1290.1	1320.1	1.84	1.71	1.36
1330.1	1360.1	8.44	7.37	6.95	1330.1	1360.1	13.59	16.31	18.57	1330.1	1360.1	1.71	1.75	1.46
1370.1	1400.1	8.76	7.66	7.16	1370.1	1400.1	13.21	15.10	16.92	1370.1	1400.1	1.51	1.75	1.59
1410.1	1440.1	9.15	8.01	7.43	1410.1	1440.1	13.56	14.78	16.06	1410.1	1440.1	1.26	1.68	1.66
1450.1	1480.1	9.64	8.48	7.78	1450.1	1480.1	14.39	14.59	14.94	1450.1	1480.1	0.91	1.47	1.65
1490.1	1520.1	10.28	9.14	8.37	1490.1	1520.1	15.74	15.76	14.68	1490.1	1520.1	0.49	1.09	1.42
1530.1	1560.1	10.93	9.89	9.13	1530.1	1560.1	14.78	19.79	16.23	1530.1	1560.1	-0.01	0.53	0.92
1550.1	1580.1	11.26	10.35	9.60	1550.1	1580.1	14.02	19.50	17.99	1550.1	1580.1	-0.19	0.22	0.61



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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=510.1MHz (dB)
		@LO (dBm) +10
490.1	20.0	6.35
478.1	32.0	6.30
466.1	44.0	6.28
454.1	56.0	6.31
442.1	68.0	6.23
430.1	80.0	6.27
418.1	92.0	6.25
406.1	104.0	6.24
394.1	116.0	6.15
382.1	128.0	6.08
370.1	140.0	6.05
358.1	152.0	6.08
346.1	164.0	6.06
334.1	176.0	6.09
322.1	188.0	6.07
310.1	200.0	6.05
298.1	212.0	6.02
286.1	224.0	6.01
274.1	236.0	6.01
262.1	248.0	6.03
250.1	260.0	6.02
238.1	272.0	6.01
226.1	284.0	6.02
214.1	296.0	6.04
202.1	308.0	6.07
190.1	320.0	6.09
178.1	332.0	6.09
166.1	344.0	6.12
154.1	356.0	6.13
142.1	368.0	6.13
130.1	380.0	6.10
118.1	392.0	6.11
106.1	404.0	6.13
94.1	416.0	6.11
82.1	428.0	6.15
70.1	440.0	6.18
58.1	452.0	6.20
46.1	464.0	6.19
22.1	488.0	6.19
10.1	500.0	6.51

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=39.9MHz (dB)
		@LO (dBm) +10
10.1	50.0	6.46
70.1	110.0	6.14
130.1	170.0	6.30
190.1	230.0	6.20
250.1	290.0	6.33
310.1	350.0	6.16
350.1	390.0	6.26
410.1	450.0	6.28
450.1	490.0	6.24
510.1	550.0	6.08
550.1	590.0	6.17
610.1	650.0	6.34
650.1	690.0	6.43
710.1	750.0	6.69
750.1	790.0	6.65
810.1	850.0	6.55
850.1	890.0	6.45
910.1	950.0	6.42
950.1	990.0	6.25
1010.1	1050.0	6.12
1050.1	1090.0	5.99
1110.1	1150.0	5.99
1150.1	1190.0	6.06
1210.1	1250.0	6.06
1250.1	1290.0	6.05
1310.1	1350.0	6.04
1350.1	1390.0	6.17
1410.1	1450.0	6.24
1450.1	1490.0	6.43
1510.1	1550.0	6.78
1550.1	1590.0	6.85
1610.1	1650.0	7.17
1650.1	1690.0	7.35
1710.1	1750.0	7.81
1750.1	1790.0	8.28
1810.1	1850.0	8.81
1850.1	1890.0	9.22
1910.1	1950.0	9.90
1950.1	1990.0	10.23
2010.1	2050.0	11.07

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1010.1MHz (dB)
		@LO (dBm) +10
990.1	20.0	7.34
970.1	40.0	7.23
950.1	60.0	7.19
930.1	80.0	7.24
910.1	100.0	7.11
890.1	120.0	7.11
870.1	140.0	6.91
850.1	160.0	6.94
830.1	180.0	6.90
810.1	200.0	6.88
790.1	220.0	6.88
770.1	240.0	6.83
750.1	260.0	6.85
730.1	280.0	6.86
710.1	300.0	6.88
690.1	320.0	6.91
670.1	340.0	6.96
650.1	360.0	6.97
630.1	380.0	7.04
610.1	400.0	7.05
570.1	440.0	7.08
550.1	460.0	7.06
510.1	500.0	7.06
490.1	520.0	7.13
450.1	560.0	7.14
430.1	580.0	7.07
390.1	620.0	7.10
370.1	640.0	7.16
330.1	680.0	7.20
310.1	700.0	7.25
270.1	740.0	7.21
250.1	760.0	7.16
210.1	800.0	7.03
190.1	820.0	6.96
150.1	860.0	7.02
130.1	880.0	7.04
90.1	920.0	7.25
70.1	940.0	7.37
30.1	980.0	7.33
10.1	1000.0	7.68



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LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)			RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)					@LO (dBm)		
	+7	+10	+13	+7	+10	+13			+7	+10	+13
40.1	67.31	64.56	65.52	59.21	57.20	55.96	10.1	40.1	51.43	50.68	51.26
80.1	60.76	60.26	61.13	55.12	52.94	51.49	50.1	80.1	37.19	37.69	37.34
120.1	56.87	57.31	57.92	51.56	49.39	48.07	90.1	120.1	32.59	32.78	32.57
160.1	54.67	55.17	55.81	49.25	47.10	45.92	130.1	160.1	29.67	29.81	30.15
200.1	52.92	53.75	54.34	47.63	45.57	44.68	170.1	200.1	27.80	28.15	28.32
240.1	51.53	52.42	53.02	46.13	44.40	43.62	210.1	240.1	26.78	27.12	27.17
280.1	50.73	51.75	52.31	44.96	43.65	42.80	250.1	280.1	25.97	26.22	26.72
320.1	49.62	50.74	51.39	44.02	42.83	41.60	290.1	320.1	25.68	25.97	26.28
360.1	48.98	49.93	50.55	43.57	42.12	40.85	330.1	360.1	25.54	26.00	26.10
400.1	48.22	49.17	49.77	43.21	41.74	40.15	370.1	400.1	25.41	26.29	26.49
440.1	47.83	49.14	49.85	42.71	40.96	39.52	410.1	440.1	25.54	26.44	27.06
480.1	47.26	48.54	48.92	41.82	40.07	38.36	450.1	480.1	25.65	26.53	27.09
520.1	45.98	47.02	47.61	40.08	38.75	37.44	490.1	520.1	25.91	26.20	26.25
560.1	44.76	45.69	46.58	38.92	37.73	36.98	530.1	560.1	25.80	25.71	25.76
600.1	43.98	45.00	46.08	37.89	36.54	35.60	570.1	600.1	25.32	25.46	25.93
640.1	43.50	44.68	46.03	37.17	35.90	34.81	610.1	640.1	24.32	25.08	26.11
680.1	43.71	44.91	46.01	36.65	35.55	34.53	650.1	680.1	22.83	23.74	24.66
720.1	43.94	44.91	45.35	35.91	35.16	34.20	690.1	720.1	20.98	21.36	21.83
760.1	44.37	44.98	45.06	35.26	34.52	33.96	730.1	760.1	18.91	18.82	18.82
800.1	44.50	44.73	44.29	34.35	33.37	32.66	770.1	800.1	17.72	17.46	17.25
840.1	43.75	43.60	43.15	33.88	32.67	31.79	810.1	840.1	16.69	16.29	15.99
880.1	42.91	42.59	42.39	33.33	31.98	31.06	850.1	880.1	15.86	15.41	15.10
920.1	42.19	41.96	41.75	32.67	31.62	30.55	890.1	920.1	15.22	14.77	14.46
960.1	41.94	41.76	41.30	32.24	31.53	30.31	930.1	960.1	14.64	14.23	13.86
1000.1	41.44	41.23	40.93	31.58	31.18	30.31	970.1	1000.1	14.22	13.74	13.35
1040.1	40.71	40.78	40.57	31.02	31.08	30.52	1010.1	1040.1	13.93	13.44	13.06
1080.1	40.17	40.35	40.25	30.18	30.53	30.17	1050.1	1080.1	13.83	13.38	13.05
1120.1	39.41	39.78	39.85	29.28	29.84	29.57	1090.1	1120.1	13.80	13.45	13.23
1160.1	38.91	39.67	40.14	28.58	29.30	29.39	1130.1	1160.1	13.89	13.71	13.60
1200.1	38.52	39.64	40.42	27.77	28.46	28.83	1170.1	1200.1	13.82	13.72	13.68
1240.1	38.36	39.70	40.80	27.29	27.70	28.24	1210.1	1240.1	13.71	13.60	13.53
1280.1	38.43	40.02	41.38	27.01	27.24	27.74	1250.1	1280.1	13.47	13.39	13.32
1320.1	38.52	40.44	42.03	26.72	26.88	27.35	1290.1	1320.1	13.30	13.12	13.03
1360.1	38.67	41.03	42.82	26.65	26.90	27.29	1330.1	1360.1	13.00	12.86	12.68
1400.1	38.96	41.75	43.74	26.47	26.75	27.06	1370.1	1400.1	12.66	12.53	12.37
1440.1	38.92	41.94	43.55	26.27	26.77	26.99	1410.1	1440.1	12.26	12.12	11.93
1480.1	36.61	39.29	41.20	25.98	26.38	26.59	1450.1	1480.1	11.79	11.67	11.45
1520.1	36.52	40.35	44.51	26.66	26.91	27.02	1490.1	1520.1	11.56	11.38	11.18
1560.1	38.01	43.17	49.97	27.23	27.76	27.91	1530.1	1560.1	11.10	10.86	10.62
1580.1	38.39	43.91	52.11	27.24	27.99	28.17	1550.1	1580.1	10.81	10.55	10.30



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RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1020.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+7	+10	+13		+7	+10	+13		+7	+10	+13
10.1	40.1	1.40	1.38	1.44	40.1	1.73	2.53	3.51	10.0	1.88	1.64	1.48
50.1	80.1	1.12	1.10	1.13	80.1	1.61	2.28	3.12	30.0	1.89	1.64	1.48
90.1	120.1	1.12	1.07	1.11	120.1	1.64	2.36	3.25	50.0	1.91	1.66	1.50
130.1	160.1	1.13	1.03	1.04	160.1	1.63	2.34	3.21	70.0	1.93	1.68	1.52
170.1	200.1	1.10	1.06	1.12	200.1	1.59	2.25	3.09	90.0	1.91	1.66	1.50
210.1	240.1	1.13	1.05	1.10	240.1	1.63	2.34	3.21	110.0	1.93	1.68	1.52
250.1	280.1	1.09	1.08	1.16	280.1	1.59	2.25	3.07	130.0	1.94	1.70	1.54
290.1	320.1	1.12	1.11	1.17	320.1	1.60	2.28	3.13	150.0	1.93	1.69	1.53
330.1	360.1	1.08	1.11	1.16	360.1	1.58	2.25	3.07	170.0	1.95	1.70	1.55
370.1	400.1	1.11	1.15	1.21	400.1	1.57	2.23	3.04	190.0	1.96	1.72	1.57
410.1	440.1	1.10	1.14	1.19	440.1	1.58	2.24	3.06	210.0	1.96	1.72	1.56
450.1	480.1	1.10	1.17	1.23	480.1	1.56	2.20	2.98	230.0	1.97	1.73	1.58
490.1	520.1	1.10	1.15	1.19	520.1	1.57	2.22	3.02	250.0	2.00	1.76	1.61
530.1	560.1	1.11	1.16	1.19	560.1	1.56	2.19	2.95	270.0	1.98	1.75	1.61
570.1	600.1	1.14	1.18	1.22	600.1	1.57	2.20	2.97	290.0	1.99	1.76	1.61
610.1	640.1	1.14	1.18	1.23	640.1	1.58	2.20	2.95	310.0	2.01	1.79	1.65
650.1	680.1	1.18	1.23	1.28	680.1	1.57	2.18	2.92	330.0	2.01	1.79	1.65
690.1	720.1	1.18	1.22	1.26	720.1	1.59	2.20	2.94	350.0	2.01	1.79	1.66
730.1	760.1	1.20	1.26	1.30	760.1	1.58	2.17	2.87	390.0	2.03	1.82	1.69
770.1	800.1	1.16	1.21	1.25	800.1	1.60	2.18	2.89	410.0	2.02	1.82	1.69
810.1	840.1	1.12	1.16	1.20	840.1	1.61	2.18	2.87	450.0	2.05	1.85	1.73
850.1	880.1	1.10	1.13	1.16	880.1	1.60	2.17	2.85	470.0	2.02	1.83	1.71
890.1	920.1	1.07	1.07	1.09	920.1	1.62	2.19	2.86	510.0	2.05	1.86	1.74
930.1	960.1	1.10	1.09	1.11	960.1	1.62	2.17	2.83	530.0	2.03	1.85	1.74
970.1	1000.1	1.19	1.17	1.17	1000.1	1.62	2.17	2.82	570.0	2.04	1.87	1.76
1010.1	1040.1	1.23	1.21	1.21	1040.1	1.62	2.15	2.79	590.0	2.02	1.84	1.74
1050.1	1080.1	1.37	1.36	1.36	1080.1	1.61	2.12	2.74	630.0	2.04	1.87	1.77
1090.1	1120.1	1.45	1.43	1.41	1120.1	1.61	2.12	2.74	650.0	2.01	1.84	1.75
1130.1	1160.1	1.53	1.51	1.49	1160.1	1.64	2.13	2.74	690.0	2.02	1.84	1.74
1170.1	1200.1	1.66	1.62	1.58	1200.1	1.65	2.13	2.73	710.0	1.99	1.82	1.72
1210.1	1240.1	1.69	1.64	1.60	1240.1	1.69	2.17	2.77	750.0	1.99	1.82	1.73
1250.1	1280.1	1.85	1.77	1.73	1280.1	1.71	2.18	2.74	770.0	1.97	1.79	1.69
1290.1	1320.1	1.89	1.78	1.72	1320.1	1.72	2.19	2.75	810.0	1.95	1.76	1.67
1330.1	1360.1	2.01	1.89	1.82	1360.1	1.75	2.22	2.78	830.0	1.94	1.75	1.65
1370.1	1400.1	2.12	1.97	1.88	1400.1	1.74	2.20	2.73	870.0	1.91	1.71	1.61
1410.1	1440.1	2.16	2.01	1.91	1440.1	1.77	2.24	2.79	890.0	1.89	1.69	1.58
1450.1	1480.1	2.35	2.18	2.06	1480.1	1.75	2.21	2.73	930.0	1.85	1.65	1.54
1490.1	1520.1	2.32	2.17	2.04	1520.1	1.74	2.20	2.73	950.0	1.86	1.64	1.52
1530.1	1560.1	2.53	2.39	2.26	1560.1	1.76	2.23	2.76	990.0	1.80	1.57	1.44
1550.1	1580.1	2.57	2.45	2.32	1580.1	1.75	2.20	2.72	1010.0	1.82	1.59	1.47



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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)											
0	-	-	14	26	16	34	30	37	42	31	39	51
1	-	20	+0	27	12	30	21	36	50	31	39	37
2	84	73	54	> 74	55	> 74	53	66	70	> 74	> 74	61
3	> 90	68	55	> 74	54	68	53	73	57	> 74	68	66
4	> 90	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74
5	> 90	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74
6	> 90	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74
7	> 90	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74
8	> 90	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74
9	> 90	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74
10	> 90	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions: RF IN: 525.00 MHz; -10.00 dBm.
LO IN: 555.00 MHz; +10.00 dBm
IF OUT: 30.00 MHz; -16.42 dBm

RF HARMONICS ORDER

	(-dBm)											
0	-	-	23	36	28	49	41	48	60	44	66	68
1	-	20	+0	28	12	31	22	39	45	38	49	46
2	64	73	45	74	45	78	45	58	67	69	61	55
3	> 90	52	38	65	41	52	37	61	51	54	56	47
4	> 90	73	68	> 84	69	75	67	77	63	78	71	72
5	> 90	78	60	71	53	72	51	64	48	70	53	69
6	> 90	> 84	> 84	> 84	80	81	73	> 84	70	83	68	83
7	> 90	81	82	> 84	71	80	78	> 84	76	80	68	82
8	> 90	> 84	> 84	> 84	> 84	> 84	> 84	> 84	> 84	> 84	83	> 84
9	> 90	> 84	> 84	> 84	> 84	> 84	> 84	> 84	79	> 84	79	82
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: 525.25 MHz; +.00 dBm.
LO IN: 555.00 MHz; +10.00 dBm
IF OUT: 30.00 MHz; -6.43 dBm

Notes: 1. All Harmonics are in (dBc) relative to IF OUTPUT.
2. + entry denotes harmonics are in (dBc) above IF OUTPUT.



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