

# Frequency Mixer

# TUF-1LHSM+

## 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
2.0	32.0	6.66	6.28	6.06	10.0	40.0	20.43	20.35	20.32	10.0	40.0	0.61	0.42	0.27
4.0	34.0	6.32	5.95	5.72	50.3	80.3	18.27	22.03	21.98	50.3	80.3	0.67	0.39	0.26
5.0	35.0	6.26	5.89	5.67	90.6	120.6	19.47	20.24	20.33	90.6	120.6	0.51	0.38	0.24
10.0	40.0	6.19	5.80	5.58	130.9	160.9	18.76	19.31	25.47	130.9	160.9	0.56	0.37	0.24
50.3	80.3	6.27	5.88	5.69	171.2	201.2	17.48	20.97	30.03	171.2	201.2	0.52	0.35	0.22
90.6	120.6	6.19	5.83	5.64	211.5	241.5	18.34	22.93	25.38	211.5	241.5	0.57	0.37	0.24
130.9	160.9	6.15	5.82	5.64	251.8	281.8	19.23	23.48	23.68	251.8	281.8	0.58	0.38	0.25
171.2	201.2	6.13	5.80	5.63	292.0	322.0	19.37	22.80	24.83	292.0	322.0	0.58	0.34	0.24
211.5	241.5	6.11	5.76	5.62	332.3	362.3	21.81	21.86	25.71	332.3	362.3	0.58	0.35	0.23
251.8	281.8	6.14	5.79	5.63	372.6	402.6	18.92	19.94	20.42	372.6	402.6	0.56	0.36	0.24
292.0	322.0	6.14	5.82	5.63	412.9	442.9	17.38	18.56	23.77	412.9	442.9	0.52	0.33	0.23
372.6	402.6	6.16	5.81	5.67	453.2	483.2	18.77	18.84	21.61	453.2	483.2	0.51	0.33	0.24
412.9	442.9	6.16	5.83	5.66	493.5	523.5	20.50	25.64	31.26	493.5	523.5	0.53	0.34	0.24
453.2	483.2	6.25	5.93	5.74	533.8	563.8	19.52	23.25	24.01	533.8	563.8	0.60	0.39	0.28
493.5	523.5	6.29	5.95	5.76	574.1	604.1	15.80	19.86	27.54	574.1	604.1	0.67	0.44	0.30
533.8	563.8	6.32	5.96	5.81	614.4	644.4	15.39	16.15	19.96	614.4	644.4	0.73	0.47	0.31
574.1	604.1	6.34	6.03	5.81	654.7	684.7	15.12	15.64	17.95	654.7	684.7	0.80	0.49	0.33
614.4	644.4	6.38	6.06	5.87	695.0	725.0	14.44	15.50	17.10	695.0	725.0	0.93	0.59	0.39
654.7	684.7	6.41	6.13	5.96	735.3	765.3	13.85	16.19	18.35	735.3	765.3	1.02	0.64	0.43
695.0	725.0	6.49	6.21	6.04	775.6	805.6	12.84	16.51	20.68	775.6	805.6	1.17	0.77	0.52
775.6	805.6	6.79	6.40	6.21	815.9	845.9	10.79	16.67	23.11	815.9	845.9	1.23	0.87	0.59
815.9	845.9	7.05	6.54	6.29	856.1	886.1	8.89	14.78	23.47	856.1	886.1	1.12	0.91	0.62
856.1	886.1	7.40	6.65	6.38	896.4	926.4	8.03	13.13	19.85	896.4	926.4	0.91	0.89	0.66
896.4	926.4	7.83	6.89	6.45	916.6	946.6	8.21	12.80	20.28	916.6	946.6	0.79	0.84	0.67
916.6	946.6	8.11	7.06	6.54	956.9	986.9	8.66	12.24	21.19	956.9	986.9	0.51	0.68	0.63
956.9	986.9	8.55	7.42	6.72	977.0	1007.0	9.06	12.31	19.86	977.0	1007.0	0.40	0.59	0.61
977.0	1007.0	8.77	7.64	6.86	1017.3	1047.3	9.99	12.65	18.70	1017.3	1047.3	0.21	0.43	0.54
1017.3	1047.3	9.18	8.02	7.19	1037.5	1067.5	10.44	13.06	17.45	1037.5	1067.5	0.11	0.33	0.48
1037.5	1067.5	9.37	8.25	7.37	1077.8	1107.8	10.92	13.41	16.60	1077.8	1107.8	-0.03	0.18	0.31
1077.8	1107.8	9.62	8.58	7.71	1097.9	1127.9	10.84	13.21	15.84	1097.9	1127.9	-0.05	0.11	0.26
1097.9	1127.9	9.73	8.71	7.86	1138.2	1168.2	10.94	12.51	14.53	1138.2	1168.2	0.03	0.08	0.21
1138.2	1168.2	9.88	8.97	8.17	1158.3	1188.3	11.12	12.05	14.09	1158.3	1188.3	0.00	0.03	0.19
1158.3	1188.3	9.94	9.09	8.31	1198.6	1228.6	11.14	11.63	12.95	1198.6	1228.6	0.05	0.02	0.12
1198.6	1228.6	10.07	9.32	8.59	1218.8	1248.8	11.29	11.42	12.78	1218.8	1248.8	0.12	0.05	0.14
1259.1	1289.1	10.25	9.56	8.91	1259.1	1289.1	11.56	11.43	12.78	1259.1	1289.1	0.20	0.11	0.17
1279.2	1309.2	10.30	9.65	9.02	1279.2	1309.2	11.42	11.53	12.88	1279.2	1309.2	0.22	0.12	0.18
1319.5	1349.5	10.44	9.81	9.22	1319.5	1349.5	11.96	12.28	14.23	1319.5	1349.5	0.30	0.21	0.25
1339.7	1369.7	10.50	9.89	9.34	1339.7	1369.7	12.13	12.91	15.18	1339.7	1369.7	0.31	0.24	0.28
1380.0	1410.0	10.70	10.18	9.72	1380.0	1410.0	13.13	14.38	16.62	1380.0	1410.0	0.34	0.28	0.31
1400.1	1430.1	10.78	10.35	9.90	1400.1	1430.1	13.51	15.02	16.50	1400.1	1430.1	0.32	0.29	0.30



# Frequency Mixer

# TUF-1LHSM+

## Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=300.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=10.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=600.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+10			+10			+10
290.0	10.1	5.96	10.0	20.1	5.83	590.0	10.1	6.29
282.8	17.3	5.97	24.9	35.0	5.67	575.1	25.0	6.23
275.6	24.5	5.92	39.7	49.8	5.68	560.3	39.8	6.21
268.5	31.6	5.93	54.6	64.7	5.73	545.4	54.7	6.19
261.3	38.8	5.89	69.5	79.6	5.72	530.5	69.6	6.16
254.1	46.0	5.92	84.4	94.5	5.78	515.6	84.5	6.15
246.9	53.2	5.89	99.2	109.3	5.75	500.8	99.3	6.10
239.7	60.4	5.90	114.1	124.2	5.75	485.9	114.2	6.05
232.6	67.5	5.86	129.0	139.1	5.75	471.0	129.1	5.99
225.4	74.7	5.86	143.8	153.9	5.78	456.2	143.9	5.99
218.2	81.9	5.84	158.7	168.8	5.80	441.3	158.8	6.02
211.0	89.1	5.83	173.6	183.7	5.83	426.4	173.7	6.01
203.8	96.3	5.84	188.5	198.6	5.82	411.5	188.6	5.97
196.7	103.4	5.82	203.3	213.4	5.83	396.7	203.4	5.95
189.5	110.6	5.81	218.2	228.3	5.82	381.8	218.3	5.97
182.3	117.8	5.79	233.1	243.2	5.83	366.9	233.2	5.98
175.1	125.0	5.78	247.9	258.0	5.85	352.1	248.0	5.98
167.9	132.2	5.75	262.8	272.9	5.86	337.2	262.9	5.97
160.8	139.3	5.77	277.7	287.8	5.86	322.3	277.8	5.99
153.6	146.5	5.73	292.6	302.7	5.86	307.4	292.7	5.98
146.4	153.7	5.74	307.4	317.5	5.86	292.6	307.5	5.96
139.2	160.9	5.74	322.3	332.4	5.89	277.7	322.4	5.96
132.1	168.0	5.76	337.2	347.3	5.88	262.8	337.3	5.97
124.9	175.2	5.75	352.1	362.2	5.88	247.9	352.2	6.00
117.7	182.4	5.75	366.9	377.0	5.93	233.1	367.0	6.00
110.5	189.6	5.75	381.8	391.9	5.92	218.2	381.9	6.02
103.3	196.8	5.75	396.7	406.8	5.92	203.3	396.8	6.04
96.2	203.9	5.76	411.5	421.6	5.89	188.5	411.6	6.05
89.0	211.1	5.75	426.4	436.5	5.94	173.6	426.5	6.05
81.8	218.3	5.74	441.3	451.4	5.98	158.7	441.4	6.05
74.6	225.5	5.74	456.2	466.3	5.96	143.8	456.3	6.07
67.4	232.7	5.75	471.0	481.1	5.95	129.0	471.1	6.06
60.3	239.8	5.74	485.9	496.0	5.95	114.1	486.0	6.04
53.1	247.0	5.75	500.8	510.9	5.98	99.2	500.9	6.01
45.9	254.2	5.73	515.6	525.7	5.97	84.4	515.7	6.00
38.7	261.4	5.76	530.5	540.6	5.99	69.5	530.6	6.00
31.5	268.6	5.77	545.4	555.5	6.02	54.6	545.5	6.00
24.4	275.7	5.79	560.3	570.4	6.05	39.7	560.4	6.01
17.2	282.9	5.80	575.1	585.2	6.06	24.9	575.2	6.02
10.0	290.1	5.90	590.0	600.1	6.05	10.0	590.1	6.14

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# Frequency Mixer

# TUF-1LHSM+

## Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+7	+10	+13	+7	+10	+13
2.0	66.96	67.01	67.63	80.76	84.01	77.93
4.0	66.09	65.93	66.27	79.49	80.03	76.17
5.0	65.82	65.47	66.09	78.22	78.57	75.39
10.0	64.67	63.93	64.36	74.47	73.13	71.36
50.3	54.55	55.16	56.52	53.02	51.61	52.00
90.6	50.49	50.78	52.95	50.44	49.20	48.95
130.9	47.75	48.15	50.98	48.81	46.93	47.11
171.2	45.74	46.43	49.44	47.27	45.21	45.79
211.5	44.24	44.81	48.29	46.11	44.16	44.73
251.8	43.20	43.57	47.38	44.46	42.73	43.49
292.0	42.00	42.41	46.38	43.04	41.38	42.45
372.6	40.57	40.91	45.57	39.15	38.35	40.23
412.9	39.54	39.83	44.62	37.22	36.84	39.13
453.2	38.57	38.73	43.36	35.76	35.24	37.37
493.5	37.92	37.89	42.36	34.55	34.39	36.69
533.8	37.56	37.44	42.04	33.14	33.39	36.05
574.1	37.57	37.40	42.31	32.27	32.54	35.55
614.4	37.51	37.32	43.24	31.41	31.69	34.56
654.7	37.23	36.84	43.05	30.33	30.85	33.76
695.0	36.73	36.22	41.98	29.47	30.15	33.16
775.6	35.60	35.27	40.11	27.49	28.72	32.48
815.9	35.09	34.79	39.37	26.51	27.78	31.62
856.1	34.67	34.53	38.70	25.63	26.73	30.36
896.4	34.41	34.37	38.19	25.33	26.06	29.47
916.6	34.33	34.35	37.97	25.05	25.65	28.98
956.9	34.25	34.27	37.34	24.73	25.30	28.24
977.0	34.32	34.26	37.29	24.54	25.09	28.04
1017.3	34.59	34.53	36.97	24.23	24.86	27.55
1037.5	34.66	34.51	36.73	23.94	24.64	27.28
1077.8	35.11	34.95	36.76	23.91	24.63	27.21
1097.9	35.41	35.29	36.91	23.72	24.57	27.17
1138.2	35.79	35.73	36.99	23.51	24.61	27.30
1158.3	36.14	35.96	37.20	23.55	24.73	27.59
1198.6	36.71	36.44	37.24	23.30	24.77	27.92
1259.1	37.50	36.86	36.62	22.97	24.57	27.93
1279.2	37.81	37.03	36.45	22.80	24.37	27.80
1319.5	38.32	37.35	35.80	22.58	24.06	27.39
1339.7	38.85	37.84	35.77	22.35	23.79	27.03
1380.0	39.13	38.46	35.44	22.24	23.70	26.88
1400.1	39.69	38.97	35.32	22.08	23.49	26.63

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+7	+10	+13
10.0	40.0	41.47	39.88	42.73
50.3	80.3	35.71	35.83	36.00
90.6	120.6	31.16	31.48	31.83
130.9	160.9	28.67	28.81	29.16
171.2	201.2	27.02	27.27	27.54
211.5	241.5	25.99	26.32	26.71
251.8	281.8	25.43	25.63	25.99
292.0	322.0	25.39	25.74	26.11
332.3	362.3	25.31	25.84	26.36
372.6	402.6	25.44	26.04	26.67
412.9	442.9	26.47	26.76	27.31
453.2	483.2	27.73	27.80	28.03
493.5	523.5	28.43	28.72	29.35
533.8	563.8	27.14	27.78	29.44
574.1	604.1	24.79	25.38	27.07
614.4	644.4	22.61	22.92	24.01
654.7	684.7	20.84	20.78	21.48
695.0	725.0	19.57	19.21	19.63
735.3	765.3	18.48	17.98	18.25
775.6	805.6	17.61	17.03	17.17
815.9	845.9	16.91	16.32	16.45
856.1	886.1	16.33	15.77	15.99
896.4	926.4	15.85	15.39	15.65
916.6	946.6	15.58	15.26	15.50
956.9	986.9	15.24	15.04	15.35
977.0	1007.0	15.09	14.93	15.30
1017.3	1047.3	14.88	14.82	15.30
1037.5	1067.5	14.77	14.77	15.35
1077.8	1107.8	14.60	14.67	15.33
1097.9	1127.9	14.53	14.62	15.32
1138.2	1168.2	14.40	14.56	15.28
1158.3	1188.3	14.33	14.50	15.22
1198.6	1228.6	14.10	14.34	15.01
1218.8	1248.8	13.96	14.22	14.87
1259.1	1289.1	13.67	13.91	14.49
1279.2	1309.2	13.51	13.76	14.24
1319.5	1349.5	13.25	13.38	13.67
1339.7	1369.7	13.12	13.12	13.32
1380.0	1410.0	12.75	12.53	12.58
1400.1	1430.1	12.55	12.26	12.18

# Frequency Mixer

# TUF-1LHSM+

## Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+7	+10	+13
2.0	32.0	1.44	1.47	1.49
4.0	34.0	1.23	1.27	1.30
5.0	35.0	1.19	1.23	1.26
10.0	40.0	1.09	1.14	1.18
50.3	80.3	1.09	1.03	1.08
90.6	120.6	1.11	1.06	1.10
130.9	160.9	1.13	1.09	1.13
171.2	201.2	1.16	1.13	1.16
211.5	241.5	1.18	1.16	1.19
251.8	281.8	1.22	1.20	1.22
292.0	322.0	1.25	1.23	1.25
332.3	362.3	1.27	1.26	1.29
372.6	402.6	1.29	1.28	1.31
412.9	442.9	1.31	1.30	1.33
453.2	483.2	1.35	1.34	1.35
493.5	523.5	1.39	1.38	1.40
533.8	563.8	1.42	1.42	1.44
574.1	604.1	1.44	1.44	1.47
614.4	644.4	1.45	1.46	1.48
654.7	684.7	1.45	1.46	1.47
695.0	725.0	1.44	1.44	1.45
735.3	765.3	1.44	1.43	1.43
775.6	805.6	1.45	1.42	1.42
815.9	845.9	1.51	1.46	1.45
856.1	886.1	1.62	1.55	1.54
896.4	926.4	1.78	1.68	1.64
916.6	946.6	1.87	1.77	1.71
956.9	986.9	2.06	1.93	1.85
977.0	1007.0	2.17	2.05	1.95
1017.3	1047.3	2.38	2.25	2.13
1037.5	1067.5	2.50	2.36	2.24
1077.8	1107.8	2.70	2.57	2.44
1097.9	1127.9	2.79	2.67	2.53
1138.2	1168.2	2.95	2.84	2.71
1158.3	1188.3	3.01	2.92	2.78
1198.6	1228.6	3.11	3.03	2.90
1218.8	1248.8	3.14	3.06	2.94
1259.1	1289.1	3.17	3.11	2.99
1279.2	1309.2	3.18	3.13	3.02
1319.5	1349.5	3.20	3.14	3.03
1339.7	1369.7	3.21	3.15	3.04
1380.0	1410.0	3.21	3.16	3.05
1400.1	1430.1	3.21	3.16	3.06

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+7	+10	+13
2.0	2.03	2.80	3.90
4.0	1.86	2.68	3.79
5.0	1.83	2.65	3.78
10.0	1.66	2.48	3.58
50.3	1.47	2.24	3.24
90.6	1.43	2.12	3.03
130.9	1.44	2.16	3.10
171.2	1.44	2.12	3.00
211.5	1.46	2.13	3.00
251.8	1.48	2.15	3.02
292.0	1.50	2.13	2.96
332.3	1.54	2.18	3.03
372.6	1.57	2.18	2.99
412.9	1.61	2.21	3.01
453.2	1.64	2.23	3.02
493.5	1.69	2.24	3.01
533.8	1.74	2.28	3.03
574.1	1.78	2.29	3.01
614.4	1.83	2.34	3.05
654.7	1.88	2.35	3.04
695.0	1.92	2.36	3.03
735.3	1.98	2.38	3.03
775.6	2.03	2.38	2.99
815.9	2.08	2.41	2.99
856.1	2.16	2.47	3.01
896.4	2.21	2.52	3.05
916.6	2.22	2.55	3.07
956.9	2.25	2.59	3.11
977.0	2.27	2.61	3.12
1017.3	2.30	2.62	3.14
1037.5	2.31	2.63	3.15
1077.8	2.34	2.64	3.15
1097.9	2.35	2.64	3.13
1138.2	2.36	2.63	3.11
1158.3	2.37	2.63	3.10
1198.6	2.39	2.60	3.04
1218.8	2.39	2.58	3.01
1259.1	2.40	2.55	2.96
1279.2	2.40	2.53	2.93
1319.5	2.40	2.48	2.86
1339.7	2.41	2.47	2.84
1380.0	2.42	2.46	2.83
1400.1	2.44	2.46	2.82

IF (OUT) (MHz)	IF VSWR @LO=600.1MHz (:1)		
	@LO (dBm)		
	+7	+10	+13
2.0	1.19	1.10	1.04
4.0	1.19	1.10	1.05
5.0	1.20	1.10	1.05
10.0	1.24	1.13	1.06
25.1	1.66	1.43	1.22
40.3	1.67	1.40	1.22
55.4	1.64	1.41	1.23
70.5	1.67	1.42	1.25
85.6	1.67	1.44	1.26
100.8	1.71	1.46	1.27
115.9	1.71	1.47	1.28
131.0	1.73	1.48	1.29
146.2	1.73	1.48	1.30
161.3	1.72	1.48	1.31
176.4	1.74	1.49	1.32
191.5	1.76	1.51	1.34
206.7	1.78	1.53	1.36
221.8	1.78	1.53	1.36
236.9	1.78	1.53	1.37
252.1	1.79	1.54	1.38
267.2	1.81	1.57	1.40
282.3	1.84	1.60	1.43
297.4	1.85	1.60	1.44
312.6	1.85	1.61	1.44
327.7	1.86	1.62	1.45
342.8	1.88	1.64	1.48
357.9	1.91	1.66	1.51
373.1	1.93	1.69	1.54
388.2	1.96	1.71	1.56
403.3	1.98	1.73	1.57
418.5	1.99	1.74	1.57
433.6	1.98	1.74	1.58
448.7	1.98	1.74	1.59
463.8	2.02	1.78	1.63
479.0	2.08	1.83	1.68
494.1	2.13	1.88	1.72
509.2	2.15	1.90	1.73
524.4	2.14	1.89	1.72
539.5	2.13	1.88	1.72
554.6	2.14	1.90	1.74
569.7	2.18	1.95	1.79
584.9	2.25	2.00	1.85
600.0	2.36	2.30	2.31

## Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	24	37	32	47	35	49	46	60	53	68
1	-	20	+0	29	12	34	20	36	32	48	49	48
2	85	67	47	64	46	64	46	70	48	60	62	74
3	>100	54	53	61	57	66	47	59	53	77	51	58
4	>100	76	65	75	64	80	65	76	63	87	63	75
5	>100	77	75	67	60	65	56	63	54	69	52	64
6	>100	85	79	88	83	92	86	94	85	90	80	94
7	>100	91	77	85	77	86	83	81	81	80	79	81
8	>100	>94	93	>94	>94	93	>94	>94	>94	>94	90	>94
9	>100	>94	90	91	81	84	80	88	79	93	81	92
10	>100	>94	>94	>94	>94	>94	>94	>94	>94	>94	81	>94
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 300.1 MHz; 0.00 dBm.  
 LO IN: 330.01 MHz; +10.00 dBm  
 IF OUT: 29.91 MHz; -5.99 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	16	28	19	38	22	34	32	50	34	47
1	-	20	+0	29	12	34	20	36	34	43	42	41
2	>100	69	52	69	53	70	52	84	54	67	66	79
3	>100	75	77	77	64	73	59	80	58	69	60	77
4	>100	>84	>84	>84	>84	>84	>84	>84	>84	>84	80	>84
5	>100	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
6	>100	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
7	>100	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
8	>100	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
9	>100	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
10	>100	>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: 300.1 MHz; -10.00 dBm.  
 LO IN: 330.01 MHz; +10.00 dBm  
 IF OUT: 29.91 MHz; -15.91 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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