

Non-Catalog Model

Frequency Mixer

TUF-860MH

Level 13 (LO Power +13 dBm)

Important Note

This is a non-catalog model and can be manufactured on specific request.
Pricing and delivery information can be supplied upon request.



Please click "Back", and then click "Contact Us" for Applications support.

CASE STYLE : B02

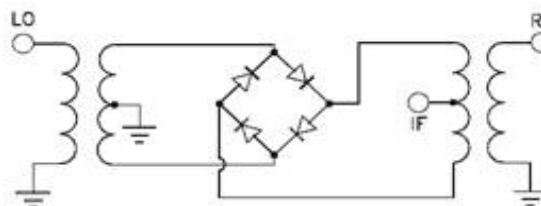
ELECTRICAL SPECIFICATIONS 50Ω @ +25°C					
Parameter		Min.	Typ.	Max.	Units
Frequency	LO (fL to fU)	800		1050	MHz
	RF (fL to fU)	800		1050	MHz
	IF	0		250	MHz
Conversion Loss			6.8	8.3	dB
LO-RF Isolation		25	35		dB
LO-IF Isolation		18	27		dB
1 dB Comp. Input Power			+9		dBm

Note: Non-hermetic

MAXIMUM RATINGS	
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power	200mW
IF Current	40mA

PIN CONNECTIONS	
LO	4
RF	1
IF	2
GROUND	3

Electrical Schematics



Frequency Mixer

TUF-860MH

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)		
		@LO (dBm)		
		+10	+13	+16
100.1	130.1	12.56	10.34	9.85
140.6	170.6	9.71	8.20	7.88
181.1	211.1	7.30	6.86	6.70
221.6	251.6	6.52	6.16	6.02
262.1	292.1	5.92	5.66	5.55
302.6	332.6	5.54	5.36	5.25
343.1	373.1	5.41	5.18	5.07
383.6	413.6	5.24	5.06	4.98
424.2	454.2	5.19	5.00	4.92
464.7	494.7	5.26	5.04	4.88
505.2	535.2	5.11	4.96	4.86
545.7	575.7	5.10	4.95	4.87
586.2	616.2	5.09	4.88	4.79
626.7	656.7	5.13	4.90	4.79
667.2	697.2	5.20	5.02	4.88
707.7	737.7	5.22	5.08	5.00
748.2	778.2	5.34	5.18	5.09
788.7	818.7	5.43	5.27	5.18
829.2	859.2	5.57	5.32	5.16
869.7	899.7	5.65	5.22	5.03
910.2	940.2	5.88	5.24	5.05
950.7	980.7	6.70	5.49	5.19
991.2	1021.2	7.12	5.79	5.27
1031.7	1061.7	7.38	6.26	5.50
1072.3	1102.3	7.36	6.46	5.72
1112.8	1142.8	7.32	6.59	5.97
1153.3	1183.3	7.34	6.78	6.16
1193.8	1223.8	7.37	6.97	6.47
1234.3	1264.3	7.44	7.10	6.74
1274.8	1304.8	7.50	7.22	6.94
1315.3	1345.3	7.64	7.39	7.13
1355.8	1385.8	7.84	7.57	7.29
1396.3	1426.3	7.99	7.61	7.24
1436.8	1466.8	8.07	7.54	7.24
1477.3	1507.3	8.16	7.67	7.52
1517.8	1547.8	8.40	8.04	7.94
1558.3	1588.3	8.71	8.47	8.37
1598.8	1628.8	8.96	8.76	8.70
1639.3	1669.3	9.32	9.15	9.11
1700.1	1730.1	10.31	10.07	9.99

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+10	+13	+16
100.1	130.1	14.92	22.83	19.80
140.6	170.6	16.48	17.96	19.72
181.1	211.1	17.04	17.98	20.90
221.6	251.6	15.79	18.43	22.04
262.1	292.1	17.31	20.65	24.01
302.6	332.6	18.84	22.27	23.10
343.1	373.1	20.11	23.09	23.21
383.6	413.6	23.17	24.45	23.80
424.2	454.2	24.24	25.64	26.53
464.7	494.7	21.29	22.65	23.96
505.2	535.2	22.90	26.63	25.85
545.7	575.7	26.64	27.26	29.55
586.2	616.2	25.02	23.19	27.62
626.7	656.7	15.50	25.61	25.82
667.2	697.2	14.50	14.78	18.45
707.7	737.7	15.11	14.39	15.16
748.2	778.2	14.70	14.44	14.50
788.7	818.7	14.61	15.36	16.35
829.2	859.2	14.77	17.13	19.94
869.7	899.7	17.42	23.23	29.89
910.2	940.2	17.73	29.96	23.82
950.7	980.7	12.53	28.02	22.42
991.2	1021.2	11.81	22.91	21.77
1031.7	1061.7	13.23	17.82	21.24
1072.3	1102.3	15.35	18.10	19.10
1112.8	1142.8	17.28	17.80	18.62
1153.3	1183.3	18.67	19.47	19.12
1193.8	1223.8	19.73	20.28	21.25
1234.3	1264.3	20.43	20.99	22.70
1274.8	1304.8	20.62	22.78	24.68
1315.3	1345.3	20.08	23.25	22.71
1355.8	1385.8	21.33	22.51	21.88
1396.3	1426.3	21.22	21.46	22.23
1436.8	1466.8	20.79	22.23	22.97
1477.3	1507.3	19.33	24.84	23.22
1517.8	1547.8	22.83	28.42	25.75
1558.3	1588.3	27.44	27.02	26.51
1598.8	1628.8	24.86	23.25	26.30
1639.3	1669.3	23.42	22.09	25.65
1700.1	1730.1	23.77	22.15	23.38

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+9dBm (dB)		
		@LO (dBm)		
		+10	+13	+16
100.1	130.1	-1.17	-0.12	-0.03
140.6	170.6	-0.37	0.03	-0.03
181.1	211.1	0.35	0.14	0.04
221.6	251.6	0.64	0.40	0.24
262.1	292.1	0.85	0.58	0.42
302.6	332.6	1.00	0.68	0.53
343.1	373.1	1.13	0.88	0.71
383.6	413.6	1.14	0.85	0.71
424.2	454.2	1.18	0.88	0.72
464.7	494.7	1.07	0.83	0.72
505.2	535.2	1.19	0.90	0.76
545.7	575.7	1.28	0.98	0.81
586.2	616.2	1.38	1.12	0.92
626.7	656.7	1.46	1.26	1.03
667.2	697.2	1.64	1.37	1.18
707.7	737.7	1.81	1.50	1.28
748.2	778.2	2.06	1.72	1.48
788.7	818.7	2.20	1.85	1.61
829.2	859.2	2.35	1.93	1.72
869.7	899.7	2.57	2.14	1.89
910.2	940.2	2.64	2.24	1.93
950.7	980.7	2.18	2.25	1.88
991.2	1021.2	1.78	2.08	1.87
1031.7	1061.7	1.47	1.67	1.65
1072.3	1102.3	1.38	1.44	1.43
1112.8	1142.8	1.44	1.37	1.27
1153.3	1183.3	1.33	1.16	1.09
1193.8	1223.8	1.29	1.01	0.90
1234.3	1264.3	1.14	0.84	0.66
1274.8	1304.8	1.03	0.76	0.59
1315.3	1345.3	0.95	0.66	0.53
1355.8	1385.8	0.82	0.58	0.50
1396.3	1426.3	0.79	0.60	0.57
1436.8	1466.8	0.67	0.56	0.51
1477.3	1507.3	0.61	0.50	0.39
1517.8	1547.8	0.55	0.37	0.31
1558.3	1588.3	0.48	0.29	0.28
1598.8	1628.8	0.43	0.26	0.24
1639.3	1669.3	0.33	0.20	0.19
1700.1	1730.1	0.22	0.15	0.14

Frequency Mixer

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=925.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=800.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1050.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+13			+13			+13
125.0	800.1	6.01	10.0	810.1	5.45	250.0	800.1	6.62
118.9	806.2	5.98	16.2	816.3	5.29	243.8	806.3	6.60
112.9	812.2	5.98	22.3	822.4	5.24	237.7	812.4	6.60
106.8	818.3	5.96	28.5	828.6	5.25	231.5	818.6	6.61
100.8	824.3	5.96	34.6	834.7	5.22	225.4	824.7	6.59
94.7	830.4	5.97	40.8	840.9	5.22	219.2	830.9	6.57
88.7	836.4	5.93	46.9	847.0	5.19	213.1	837.0	6.52
82.6	842.5	5.88	53.1	853.2	5.16	206.9	843.2	6.48
76.6	848.5	5.85	59.2	859.3	5.15	200.8	849.3	6.46
70.5	854.6	5.83	65.4	865.5	5.14	194.6	855.5	6.42
64.5	860.6	5.82	71.5	871.6	5.14	188.5	861.6	6.36
58.4	866.7	5.75	77.7	877.8	5.09	182.3	867.8	6.27
52.4	872.7	5.68	83.8	883.9	5.04	176.2	873.9	6.19
46.3	878.8	5.58	90.0	890.1	5.02	170.0	880.1	6.12
40.3	884.8	5.49	96.2	896.3	4.99	163.8	886.3	6.04
34.2	890.9	5.46	102.3	902.4	5.00	157.7	892.4	5.98
28.2	896.9	5.43	108.5	908.6	4.98	151.5	898.6	5.90
22.1	903.0	5.39	114.6	914.7	4.95	145.4	904.7	5.84
16.1	909.0	5.37	120.8	920.9	4.94	139.2	910.9	5.80
10.0	915.1	5.48	126.9	927.0	4.93	133.1	917.0	5.78
10.0	935.1	5.44	133.1	933.2	4.97	126.9	923.2	5.78
16.1	941.2	5.27	139.2	939.3	4.99	120.8	929.3	5.76
22.1	947.2	5.23	145.4	945.5	4.99	114.6	935.5	5.72
28.2	953.3	5.26	151.5	951.6	4.97	108.5	941.6	5.70
34.2	959.3	5.28	157.7	957.8	4.96	102.3	947.8	5.69
40.3	965.4	5.31	163.8	963.9	5.00	96.2	953.9	5.73
46.3	971.4	5.32	170.0	970.1	5.02	90.0	960.1	5.76
52.4	977.5	5.30	176.2	976.3	5.05	83.8	966.3	5.76
58.4	983.5	5.32	182.3	982.4	5.06	77.7	972.4	5.75
64.5	989.6	5.37	188.5	988.6	5.07	71.5	978.6	5.72
70.5	995.6	5.46	194.6	994.7	5.12	65.4	984.7	5.75
76.6	1001.7	5.51	200.8	1000.9	5.17	59.2	990.9	5.79
82.6	1007.7	5.53	206.9	1007.0	5.24	53.1	997.0	5.84
88.7	1013.8	5.57	213.1	1013.2	5.26	46.9	1003.2	5.84
94.7	1019.8	5.59	219.2	1019.3	5.31	40.8	1009.3	5.86
100.8	1025.9	5.68	225.4	1025.5	5.37	34.6	1015.5	5.91
106.8	1031.9	5.78	231.5	1031.6	5.46	28.5	1021.6	5.94
112.9	1038.0	5.83	237.7	1037.8	5.54	22.3	1027.8	6.02
118.9	1044.0	5.92	243.8	1043.9	5.63	16.2	1033.9	6.06
125.0	1050.1	5.98	250.0	1050.1	5.69	10.0	1040.1	6.22

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Frequency Mixer

TUF-860MH

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+10	+13	+16	+10	+13	+16
100.1	59.10	60.08	61.37	66.57	49.96	47.01
140.6	64.42	59.00	57.02	47.26	45.92	47.29
181.1	53.38	52.55	52.63	46.54	47.24	49.13
221.6	47.93	48.84	49.82	47.48	50.83	50.75
262.1	44.38	46.24	47.83	52.49	56.48	52.43
302.6	42.46	44.14	45.63	72.18	57.46	51.51
343.1	41.06	42.89	44.32	52.32	57.72	52.42
383.6	40.42	43.22	45.03	47.20	49.34	48.18
424.2	39.57	41.93	43.66	43.32	45.47	45.88
464.7	36.78	38.58	40.11	40.55	41.45	42.52
505.2	35.52	37.28	38.89	38.41	39.72	40.21
545.7	34.92	36.73	38.38	38.22	40.12	41.09
586.2	34.83	36.45	37.84	38.28	41.37	43.05
626.7	36.84	38.10	39.14	38.66	41.41	42.24
667.2	40.43	41.77	41.84	37.79	41.18	42.23
707.7	42.46	43.33	42.87	35.40	38.98	41.42
748.2	40.08	40.54	40.32	33.03	35.80	37.87
788.7	37.07	37.70	37.74	31.04	33.71	35.84
829.2	35.17	36.23	36.69	29.94	32.60	34.82
869.7	33.51	34.95	36.13	29.01	31.35	33.14
910.2	31.80	33.50	34.51	27.56	29.40	31.16
950.7	30.91	32.60	33.54	26.97	28.41	30.21
991.2	31.08	32.35	33.29	27.74	28.02	29.84
1031.7	31.54	32.83	33.99	27.65	27.95	29.61
1072.3	31.75	33.24	34.51	27.71	28.69	30.18
1112.8	32.30	33.91	35.33	27.50	29.09	30.57
1153.3	32.10	34.12	35.56	26.96	29.06	30.92
1193.8	31.79	34.10	35.89	26.54	28.45	30.24
1234.3	31.09	33.19	35.10	26.08	27.64	28.81
1274.8	30.65	32.47	34.23	25.74	26.81	27.38
1315.3	30.28	31.75	33.12	25.33	25.82	25.72
1355.8	29.83	31.06	32.13	24.96	24.89	24.11
1396.3	29.58	30.60	31.45	24.71	24.00	22.59
1436.8	29.00	29.92	30.43	24.08	22.48	20.27
1477.3	28.73	29.29	29.35	23.29	20.13	17.87
1517.8	28.30	28.37	28.59	21.78	18.18	16.88
1558.3	27.70	27.60	27.84	20.16	17.48	16.57
1598.8	27.44	27.10	27.06	19.59	17.28	16.06
1639.3	27.08	26.22	25.81	19.62	16.87	15.37
1700.1	26.77	25.25	24.45	19.43	16.29	14.49

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+10	+13	+16
100.1	130.1	34.17	34.08	34.05
140.6	170.6	28.83	29.18	29.14
181.1	211.1	25.63	25.81	25.85
221.6	251.6	23.46	23.75	23.86
262.1	292.1	22.18	22.40	22.50
302.6	332.6	21.51	21.65	21.74
343.1	373.1	20.86	21.42	21.66
383.6	413.6	20.60	21.26	21.78
424.2	454.2	20.44	21.02	21.42
464.7	494.7	20.67	20.98	21.41
505.2	535.2	22.11	22.04	22.12
545.7	575.7	23.93	23.92	23.93
586.2	616.2	26.98	27.69	28.19
626.7	656.7	29.69	32.59	35.82
667.2	697.2	28.42	29.09	28.69
707.7	737.7	25.11	24.78	24.00
748.2	778.2	22.22	21.77	21.25
788.7	818.7	19.75	19.42	19.05
829.2	859.2	17.71	17.28	16.87
869.7	899.7	16.09	15.60	15.33
910.2	940.2	15.14	14.79	14.66
950.7	980.7	14.72	14.31	14.14
991.2	1021.2	14.64	14.12	14.02
1031.7	1061.7	14.73	14.24	14.08
1072.3	1102.3	14.62	14.28	14.16
1112.8	1142.8	14.50	14.28	14.20
1153.3	1183.3	14.33	14.21	14.08
1193.8	1223.8	14.07	14.02	14.00
1234.3	1264.3	13.75	13.76	13.82
1274.8	1304.8	13.53	13.56	13.66
1315.3	1345.3	13.25	13.35	13.46
1355.8	1385.8	13.02	13.05	13.14
1396.3	1426.3	12.71	12.70	12.62
1436.8	1466.8	12.45	12.19	12.00
1477.3	1507.3	12.07	11.60	11.22
1517.8	1547.8	11.46	10.88	10.41
1558.3	1588.3	10.83	10.19	9.71
1598.8	1628.8	10.11	9.51	9.04
1639.3	1669.3	9.25	8.64	8.23
1700.1	1730.1	8.15	7.53	7.18

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Frequency Mixer

TUF-860MH

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1050.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+10	+13	+16		+10	+13	+16		+10	+13	+16
100.1	130.1	16.26	11.77	10.56	100.1	52.65	22.29	8.99	10.0	2.52	1.90	1.49
140.6	170.6	8.72	6.89	6.24	140.6	12.61	5.66	4.79	16.2	2.56	1.83	1.48
181.1	211.1	5.03	4.51	4.25	181.1	6.09	3.67	3.75	22.3	2.57	1.87	1.51
221.6	251.6	3.76	3.38	3.20	221.6	3.34	2.96	3.54	28.5	2.48	1.80	1.44
262.1	292.1	2.89	2.67	2.57	262.1	2.49	2.52	3.26	34.6	2.45	1.78	1.43
302.6	332.6	2.36	2.22	2.16	302.6	1.99	2.31	3.12	40.8	2.42	1.76	1.40
343.1	373.1	2.06	1.93	1.87	343.1	1.81	2.28	3.17	46.9	2.37	1.72	1.38
383.6	413.6	1.81	1.73	1.69	383.6	1.55	2.11	2.99	53.1	2.31	1.68	1.34
424.2	454.2	1.65	1.59	1.56	424.2	1.48	2.15	3.09	59.2	2.31	1.68	1.34
464.7	494.7	1.51	1.45	1.42	464.7	1.40	2.08	2.99	65.4	2.29	1.67	1.33
505.2	535.2	1.36	1.32	1.31	505.2	1.36	2.08	3.00	71.5	2.33	1.68	1.34
545.7	575.7	1.28	1.24	1.23	545.7	1.35	2.09	3.02	77.7	2.36	1.71	1.36
586.2	616.2	1.21	1.16	1.19	586.2	1.35	2.06	2.96	83.8	2.42	1.75	1.40
626.7	656.7	1.15	1.13	1.20	626.7	1.40	2.10	3.00	90.0	2.47	1.79	1.43
667.2	697.2	1.12	1.09	1.15	667.2	1.44	2.10	2.96	96.2	2.52	1.83	1.46
707.7	737.7	1.11	1.08	1.11	707.7	1.48	2.15	3.03	102.3	2.57	1.86	1.49
748.2	778.2	1.14	1.10	1.09	748.2	1.54	2.16	3.03	108.5	2.60	1.87	1.50
788.7	818.7	1.20	1.15	1.11	788.7	1.57	2.14	2.99	114.6	2.62	1.88	1.51
829.2	859.2	1.28	1.20	1.14	829.2	1.63	2.15	2.98	120.8	2.61	1.87	1.50
869.7	899.7	1.37	1.26	1.20	869.7	1.68	2.10	2.87	126.9	2.59	1.85	1.49
910.2	940.2	1.55	1.41	1.35	910.2	1.77	2.13	2.90	133.1	2.56	1.83	1.46
950.7	980.7	1.85	1.61	1.53	950.7	1.93	2.26	2.96	139.2	2.54	1.81	1.46
991.2	1021.2	2.12	1.83	1.71	991.2	2.02	2.37	3.03	145.4	2.51	1.81	1.45
1031.7	1061.7	2.32	2.07	1.89	1031.7	2.04	2.44	3.10	151.5	2.52	1.80	1.45
1072.3	1102.3	2.44	2.24	2.07	1072.3	2.07	2.48	3.14	157.7	2.53	1.82	1.47
1112.8	1142.8	2.54	2.38	2.25	1112.8	2.07	2.47	3.14	163.8	2.57	1.84	1.49
1153.3	1183.3	2.66	2.53	2.40	1153.3	2.10	2.48	3.16	170.0	2.59	1.86	1.51
1193.8	1223.8	2.72	2.64	2.54	1193.8	2.10	2.46	3.14	176.2	2.60	1.88	1.52
1234.3	1264.3	2.73	2.68	2.63	1234.3	2.11	2.42	3.10	182.3	2.61	1.89	1.54
1274.8	1304.8	2.78	2.73	2.71	1274.8	2.11	2.41	3.08	188.5	2.61	1.90	1.55
1315.3	1345.3	2.86	2.82	2.81	1315.3	2.09	2.33	2.95	194.6	2.61	1.89	1.55
1355.8	1385.8	2.95	2.90	2.89	1355.8	2.06	2.29	2.91	200.8	2.62	1.89	1.54
1396.3	1426.3	3.04	2.96	2.94	1396.3	1.99	2.18	2.75	206.9	2.62	1.90	1.55
1436.8	1466.8	3.14	3.04	3.03	1436.8	1.92	2.06	2.62	213.1	2.63	1.90	1.55
1477.3	1507.3	3.31	3.20	3.18	1477.3	1.82	1.95	2.49	219.2	2.63	1.91	1.55
1517.8	1547.8	3.51	3.39	3.35	1517.8	1.77	1.85	2.43	225.4	2.64	1.92	1.57
1558.3	1588.3	3.63	3.51	3.45	1558.3	1.79	1.91	2.50	231.5	2.65	1.95	1.59
1598.8	1628.8	3.71	3.58	3.51	1598.8	1.92	1.97	2.48	237.7	2.66	1.96	1.60
1639.3	1669.3	3.76	3.61	3.54	1639.3	2.09	2.06	2.52	243.8	2.69	1.97	1.62
1700.1	1730.1	4.01	3.83	3.75	1700.1	2.31	2.15	2.52	250.0	2.70	1.98	1.63

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	14	41	14	24	42	40	55	55	47	59
1	-	9	+0	27	15	37	42	27	45	50	65	60
2	86	41	32	50	33	57	38	54	59	62	68	62
3	>100	54	38	44	43	42	43	61	48	36	63	59
4	100	53	64	56	55	64	48	65	57	52	58	61
5	>100	44	58	62	62	53	49	50	54	61	63	71
6	>100	65	58	73	67	75	60	58	56	64	64	67
7	>100	74	71	54	61	79	62	59	69	64	80	75
8	>100	82	79	82	63	69	85	72	69	77	66	89
9	>100	88	91	82	76	79	80	77	77	80	77	69
10	>100	84	86	>99	89	79	80	97	90	83	83	72
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 920.1 MHz; 4.00 dBm.

LO IN: 950.01 MHz; +13.00 dBm

IF OUT: 29.91 MHz; -1.46 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	5	28	3	14	37	30	42	49	35	39
1	-	9	+0	25	14	35	44	21	42	43	53	56
2	99	50	40	73	43	76	45	54	59	56	84	63
3	>100	82	61	61	61	59	71	66	72	59	75	86
4	>100	88	88	>89	76	82	73	82	81	>89	81	>89
5	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89
6	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89
7	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89
8	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89
9	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89
10	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 920.1 MHz; -6.00 dBm.

LO IN: 950.01 MHz; +13.00 dBm

IF OUT: 29.91 MHz; -11.3 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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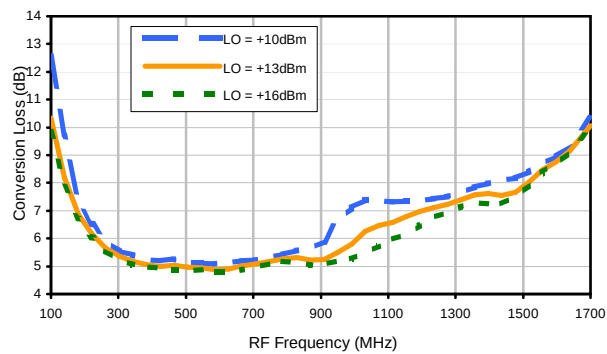
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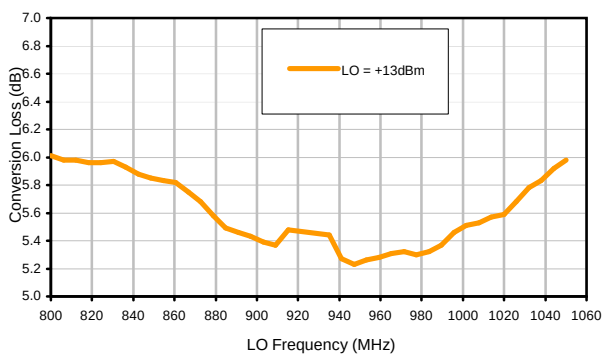
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Typical Performance Curves

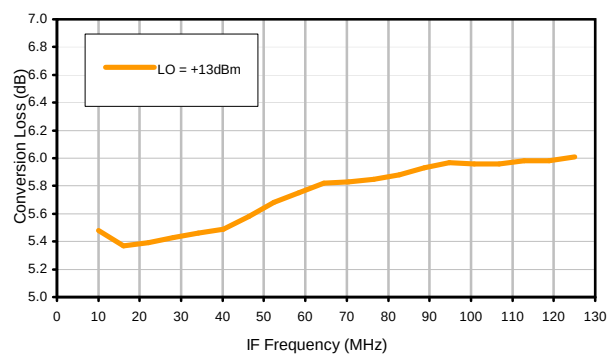
Conversion Loss @ IF=30MHz



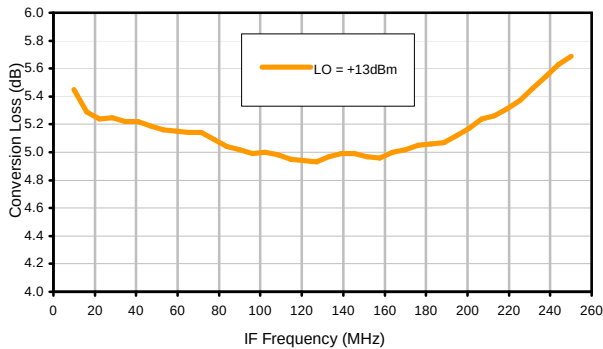
Conversion Loss vs. LO @ RF=925.1MHz



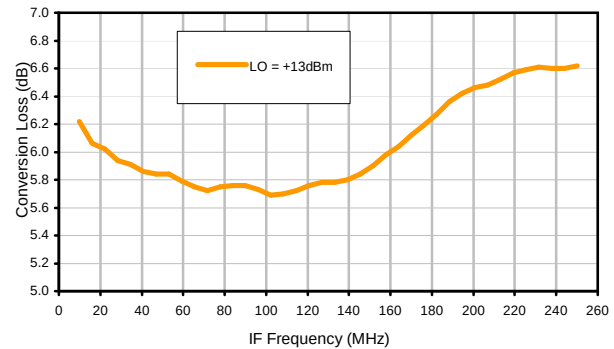
Conversion Loss vs. IF @ RF=925.1MHz



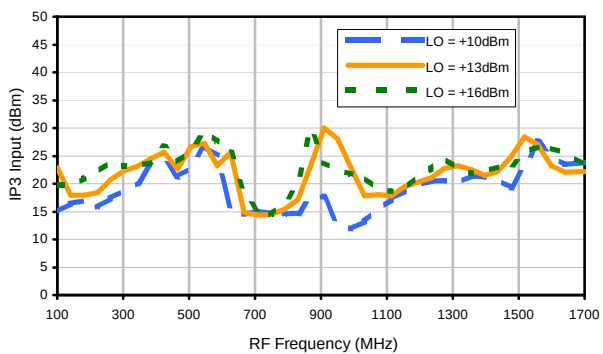
Conversion Loss vs. IF @ RF=800.1MHz



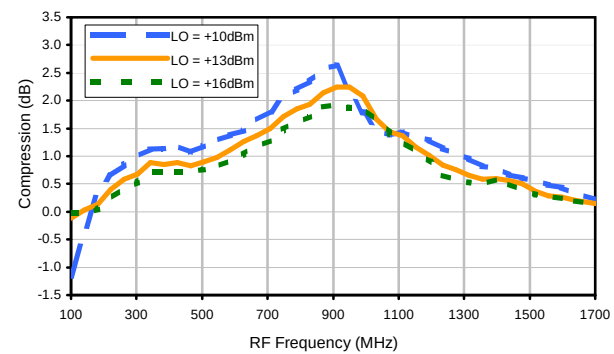
Conversion Loss vs. IF @ RF=1050.1MHz



IP3 Input

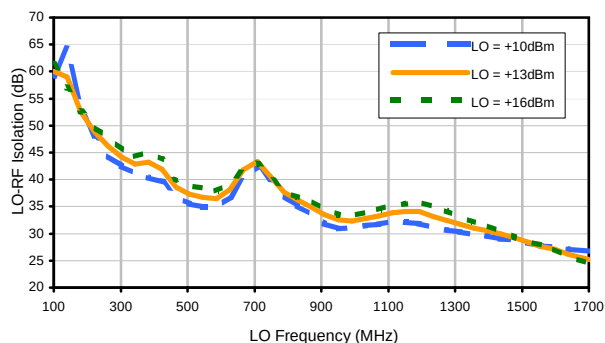


Compression @ RF IN=+9dBm

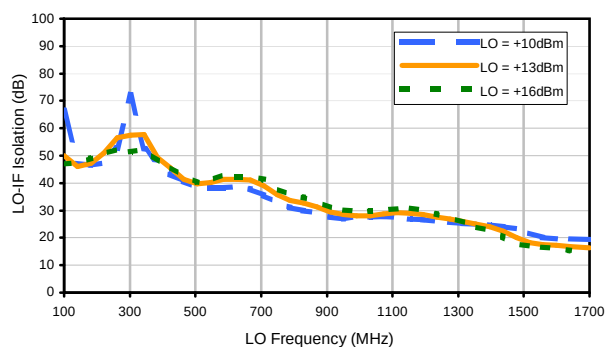


Typical Performance Curves

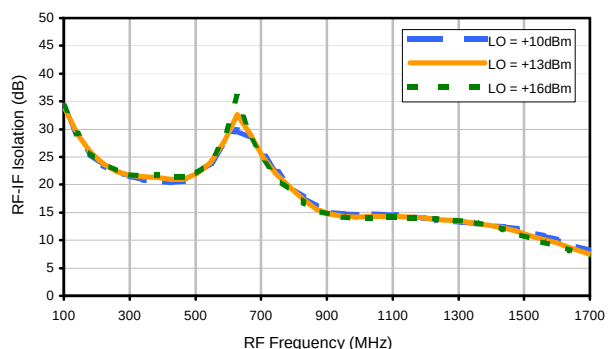
LO-RF Isolation



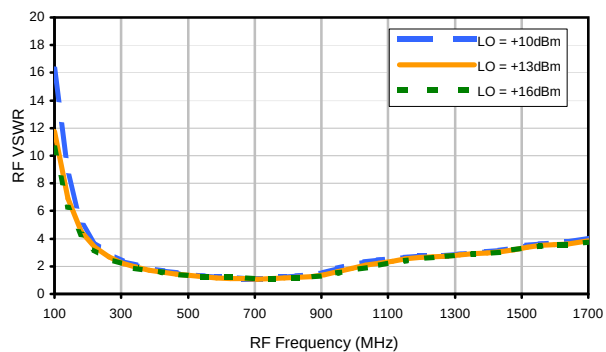
LO-IF Isolation



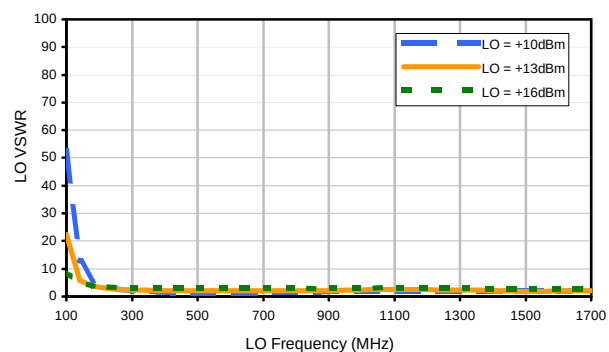
RF-IF Isolation



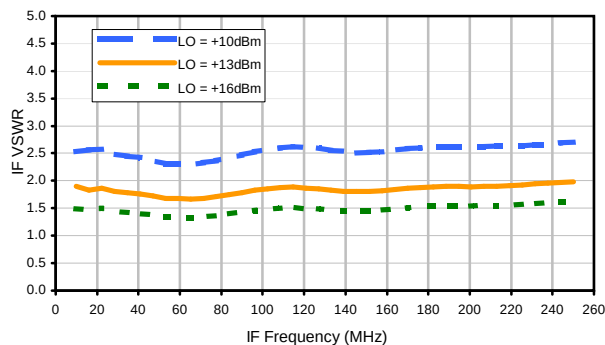
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

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4	100	53	64	56	55	64	48	65	57	52	58	61
5	>100	44	58	62	62	53	49	50	54	61	63	71
6	>100	65	58	73	67	75	60	58	56	64	64	67
7	>100	74	71	54	61	79	62	59	69	64	80	75
8	>100	82	79	82	63	69	85	72	69	77	66	89
9	>100	88	91	82	76	79	80	77	77	80	77	69
10	>100	84	86	>99	89	79	80	97	90	83	83	72
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

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2	99	50	40	73	43	76	45	54	59	56	84	63
3	>100	82	61	61	61	59	71	66	72	59	75	86
4	>100	88	88	>89	76	82	73	82	81	>89	81	>89
5	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89
6	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89
7	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89
8	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89
9	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89
10	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

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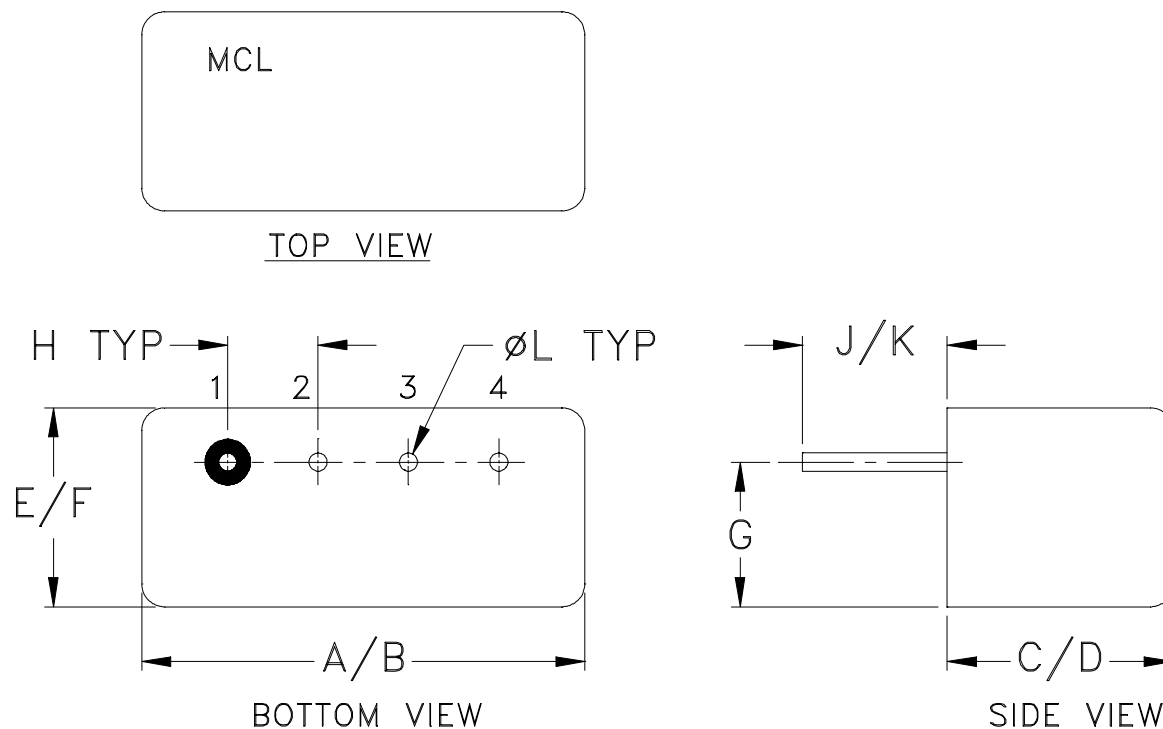
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B02

B13

Outline Dimensions



CASE#	A	B	C	D	E	F	G	H	J	K	L	WT, GRAM
B02	.480 (12.19)	.500 (12.70)	.240 (6.10)	.255 (6.48)	.210 (5.33)	.230 (5.84)	.16 (4.06)	.100 (2.54)	.14 (3.56)	.20 (5.08)	.020 (.51)	1.9
B13			.390 (9.91)	.405 (10.29)								2.3

Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm .03$; 3 Pl. $\pm .015$

Notes:

- Header material: C.R.S.
Pin material: #52 alloy.
Cover material: Cupro-Nickel.
- Pin finish: Electro Tin-Silver.
- Tolerance on pin diameter $\pm .005$ inch.
- Glass meniscus 0.015 inch max.
- Blue bead indicates Pin 1. Pin numbers do not appear on unit, for reference only.



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