

Non-Catalog Model

Frequency Mixer

LMX-1481

Level 10 (LO Power +10 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 : BB48

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C					
Parameter		Min.	Typ.	Max.	Units
Frequency	LO (fL to fU)	3		1100	MHz
	RF (fL to fU)	3		1100	MHz
	IF	0		1100	MHz
Conversion Loss	mid band		6.7	8.5	dB
	Total Range			9.8	dB
LO-RF Isolation	Low Range	45	65		dB
	Mid Range	25	40		dB
	Upper Range	18	30		dB
LO-IF Isolation	Low Range	38	57		dB
	Mid Range	20	30		dB
	Upper Range	14	20		dB
1 dB Comp. Input Power			+5		dBm

Notes: Low Range = [fL to 10fL]
mid band = [2fL to fU/2]

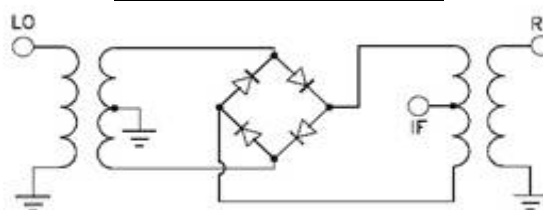
Mid Range = [10fL to fU/2]

Upper Range = [fU/2 to fU]

MAXIMUM RATINGS	
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power	50mW
IF Current	40mA

PIN CONNECTIONS	
LO	8
RF	5
IF	4
GROUND	1, 2, 3, 6, 7

Electrical Schematics



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Typical Performance Data

RF (MHz)	LO (MHz)	CONVERSION LOSS (dB)			LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
		@LO (dBm)				@LO (dBm)			@LO (dBm)		
		+7	+10	+13		+7	+10	+13	+7	+10	+13
3.0	33.0	7.14	6.60	6.34	3.0	64.0	67.3	50.8	56.8	56.7	56.7
6.0	36.0	7.01	6.47	6.22	6.0	63.2	66.3	52.3	56.0	55.2	54.8
10.0	40.0	6.97	6.42	6.18	10.0	63.4	66.9	53.6	54.8	53.6	52.5
20.0	50.0	6.98	6.46	6.22	20.0	63.3	66.8	52.6	52.0	49.6	48.1
30.0	60.0	7.01	6.54	6.35	30.0	63.5	66.7	52.6	50.0	47.2	45.4
50.0	80.0	7.17	6.62	6.35	50.0	63.1	66.1	48.2	46.0	42.9	41.1
100.0	70.0	7.13	6.61	6.38	100.0	61.1	63.1	45.8	40.8	37.5	35.9
149.3	119.3	7.11	6.54	6.35	149.3	59.1	60.3	42.7	38.2	35.2	33.7
200.0	170.0	7.01	6.52	6.36	200.0	57.6	58.4	41.7	36.6	33.8	31.7
295.5	265.5	6.94	6.56	6.39	295.5	56.8	56.2	38.6	34.7	31.4	29.1
441.8	411.8	7.07	6.64	6.42	441.8	50.7	48.0	39.8	28.0	26.8	25.3
514.9	484.9	7.10	6.66	6.44	514.9	48.9	45.8	42.8	25.7	25.1	24.3
550.0	520.0	7.12	6.68	6.47	550.0	46.5	43.8	44.8	24.7	24.3	23.4
588.1	558.1	7.13	6.66	6.46	588.1	45.1	43.0	50.3	23.8	23.5	22.8
734.3	704.3	7.54	6.91	6.53	734.3	39.7	39.0	38.0	19.8	20.3	20.0
880.6	850.6	8.21	7.30	6.70	880.6	37.1	37.7	37.2	17.4	18.5	18.6
1000.0	970.0	8.40	7.57	7.03	1000.0	33.6	34.8	35.1	16.3	17.4	17.8
1026.9	996.9	8.54	7.70	7.21	1026.9	32.9	34.3	34.9	16.0	17.3	17.8
1063.4	1033.4	8.59	7.90	7.35	1063.4	31.4	32.8	33.2	15.7	16.9	17.3
1100.0	1070.0	8.82	8.13	7.66	1100.0	30.3	32.0	32.8	15.4	16.7	17.3

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Typical Performance Data

RF/LO (MHz)	RF VSWR (:1)			LO VSWR (:1)			IF (MHz)	IF VSWR (:1)			LO/RF (MHz)	max. DC output (mV)	DC Offset (mV)
	@LO (dBm)			@LO (dBm)				@LO (dBm)			@LO (dBm)		
	+7	+10	+13	+7	+10	+13		+7	+10	+13	+10		
3.0	1.33	1.38	1.44	1.83	2.58	3.64	3.0	2.02	1.62	1.36	3.0	-269.2	-0.41
6.0	1.17	1.25	1.31	1.69	2.48	3.56	6.0	2.03	1.62	1.37	5.0	-270.3	-0.40
10.0	1.12	1.21	1.29	1.56	2.34	3.38	10.0	2.04	1.63	1.37	6.0	-270.1	-0.46
20.0	1.11	1.21	1.29	1.60	2.39	3.46	20.0	2.04	1.63	1.37	10.0	-273.4	-0.43
30.0	1.12	1.22	1.30	1.58	2.36	3.41	30.0	2.04	1.63	1.37	20.0	-263.8	-0.41
50.0	1.13	1.24	1.31	1.57	2.35	3.37	50.0	2.04	1.63	1.37	30.0	-265.4	-0.38
100.0	1.14	1.24	1.32	1.52	2.26	3.24	100.0	2.04	1.63	1.38	50.0	-279.3	-0.37
200.0	1.14	1.24	1.31	1.49	2.20	3.13	200.0	2.04	1.65	1.42	100.0	-286.4	-0.39
244.3	1.14	1.24	1.31	1.54	2.29	3.25	244.3	2.05	1.65	1.43	159.7	-265.2	-0.34
365.0	1.13	1.24	1.30	1.59	2.30	3.20	365.0	2.01	1.65	1.47	200.0	-278.2	-0.36
485.7	1.14	1.20	1.28	1.68	2.35	3.19	485.7	1.93	1.61	1.47	316.4	-286.6	-0.11
550.0	1.19	1.23	1.29	1.74	2.38	3.19	550.0	1.89	1.59	1.47	473.1	-247.6	0.48
584.4	1.22	1.25	1.31	1.75	2.37	3.14	584.4	1.85	1.57	1.45	500.0	-239.0	0.55
639.3	1.29	1.30	1.35	1.82	2.43	3.19	639.3	1.82	1.54	1.43	550.0	-256.7	0.86
759.9	1.49	1.47	1.49	1.92	2.49	3.19	759.9	1.69	1.43	1.32	629.9	-251.2	0.42
891.6	1.78	1.75	1.76	1.94	2.44	3.08	891.6	1.55	1.29	1.17	786.6	-209.3	0.70
1000.0	2.16	2.10	2.09	1.99	2.43	3.04	1000.0	1.43	1.18	1.05	943.3	-217.0	2.15
1034.2	2.30	2.23	2.22	2.04	2.50	3.12	1034.2	1.40	1.15	1.04	1000.0	-216.2	2.36
1067.1	2.44	2.36	2.35	2.08	2.50	3.09	1067.1	1.35	1.12	1.06	1060.8	-234.6	4.40
1100.0	2.61	2.52	2.50	2.09	2.46	3.02	1100.0	1.31	1.10	1.09	1100.0	-211.6	5.34

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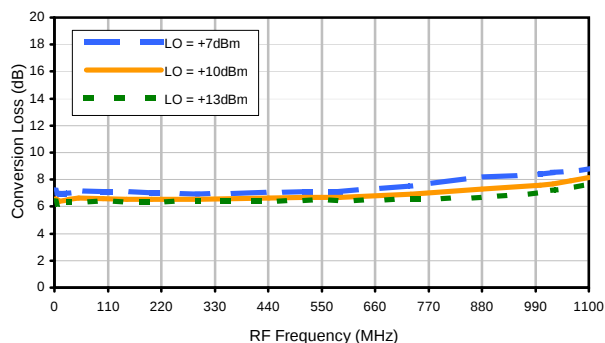


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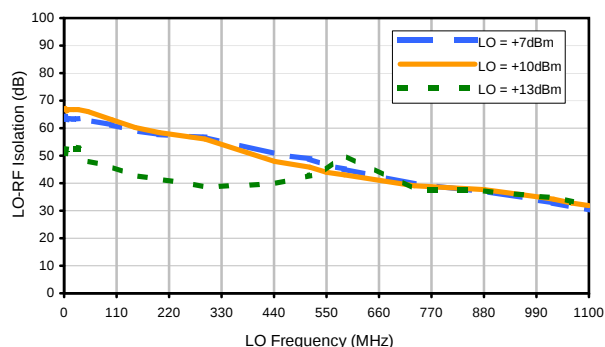


Typical Performance Curves

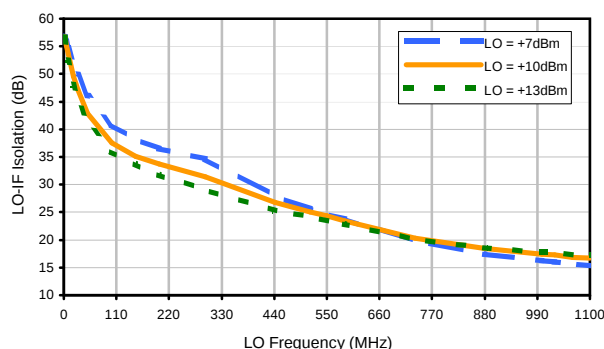
Conversion Loss



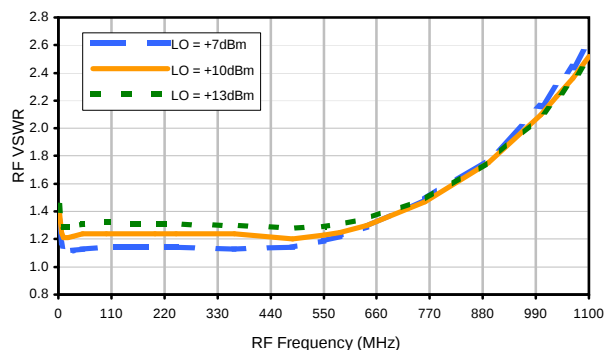
LO-RF Isolation



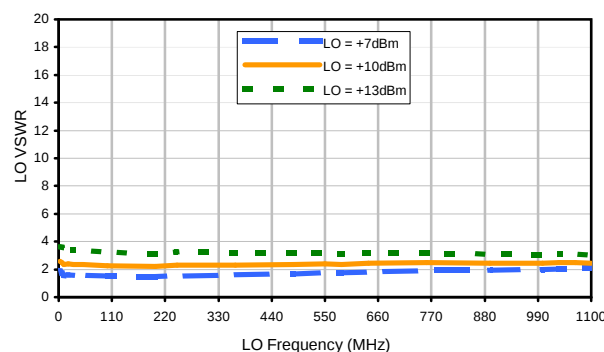
LO-IF Isolation



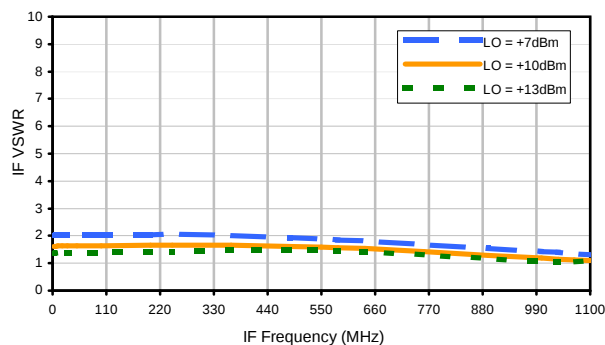
RF VSWR



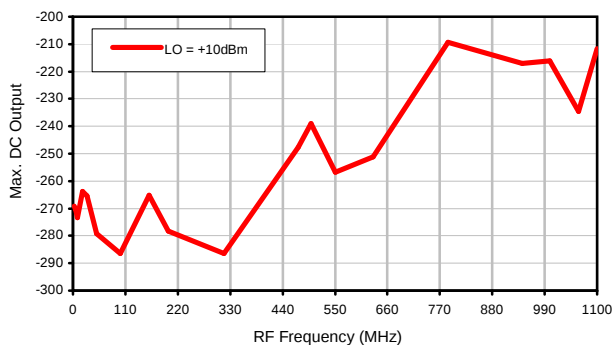
LO VSWR



IF VSWR



Max. DC Output



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