

Coaxial Frequency Mixer

Level 13 (LO Power +13 dBm) 3700 to 7000 MHz

ZMX-7GMH



Generic photo used for illustration purposes only

CASE STYLE: BU413

Connectors	Model
SMA	ZMX-7GMH

Maximum Ratings

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

Permanent damage may occur if any of these limits are exceeded.

Coaxial Connections

LO	1
RF	2
IF	3

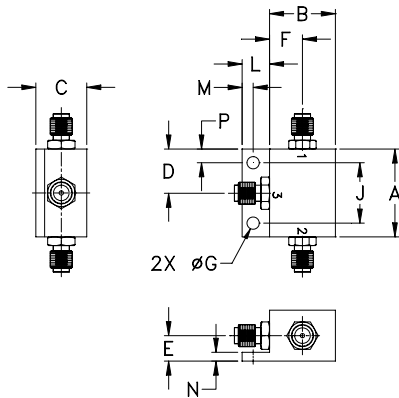
Features

- wide frequency range, 3700 to 7000 MHz
- low conversion loss, 4.7 dB typ.
- high L-R isolation, 37 dB typ.

Applications

- SATCOM
- instrumentation
- defense & federal communications
- SHF

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H
1.00	.75	.58	.50	.29	.38	.140	--
25.40	19.05	14.73	12.70	7.37	9.65	3.56	--
J	K	L	M	N	P	wt	
.687	--	.32	.13	.10	.16	grams	
17.45	--	8.13	3.30	2.54	4.06	25.0	

Electrical Specifications

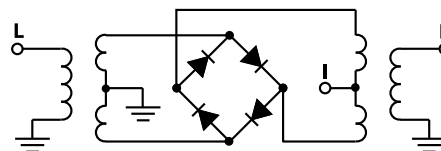
FREQUENCY (MHz)	CONVERSION LOSS (dB)	LO-RF ISOLATION (dB)		LO-IF ISOLATION (dB)				
		Typ.	Min.	Typ.	Min.			
3700-7000	DC-2000	4.7	0.20	8.0	37	20	17	8

1 dB COMP.: +9 dBm typ.

Typical Performance Data

Frequency (MHz)		Conversion Loss (dB)	Isolation L-R (dB)	Isolation L-I (dB)	VSWR RF Port (:1)	VSWR LO Port (:1)
RF	LO	LO +13dBm	LO +13dBm	LO +13dBm	LO +13dBm	LO +13dBm
3700.00	3730.00	4.90	32.88	11.42	4.38	2.01
3886.79	3916.79	4.95	31.48	11.82	4.42	1.92
4000.00	4030.00	4.98	33.88	11.83	4.32	1.92
4198.11	4228.11	5.03	38.98	12.38	3.29	2.07
4384.91	4414.91	5.01	37.98	12.84	2.28	2.41
4571.70	4601.70	4.73	35.25	13.27	1.74	2.67
4758.49	4788.49	4.71	35.44	14.07	2.29	2.73
5000.00	4970.00	4.35	40.91	14.80	2.26	3.00
5194.34	5164.34	4.17	39.16	15.42	2.08	3.09
5381.13	5351.13	4.15	37.97	15.73	1.97	3.17
5567.92	5537.92	4.10	35.50	15.75	1.86	3.18
5754.72	5724.72	4.11	39.07	15.80	1.82	2.93
5941.51	5911.51	4.70	35.83	16.04	1.78	3.46
6000.00	5970.00	4.55	35.31	16.19	1.72	3.47
6190.57	6160.57	4.24	34.76	16.05	1.61	3.57
6377.36	6347.36	4.20	34.16	16.17	1.51	3.26
6564.15	6534.15	4.27	33.69	16.22	1.43	2.56
6750.94	6720.94	4.27	33.14	16.57	1.39	2.56
6937.74	6907.74	4.42	31.48	16.81	1.39	2.46
7000.00	6970.00	4.39	30.37	16.87	1.38	3.17

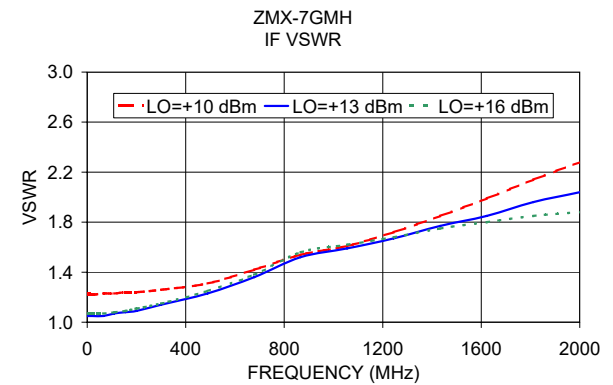
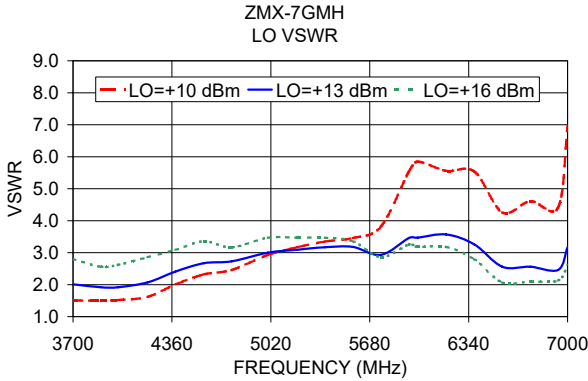
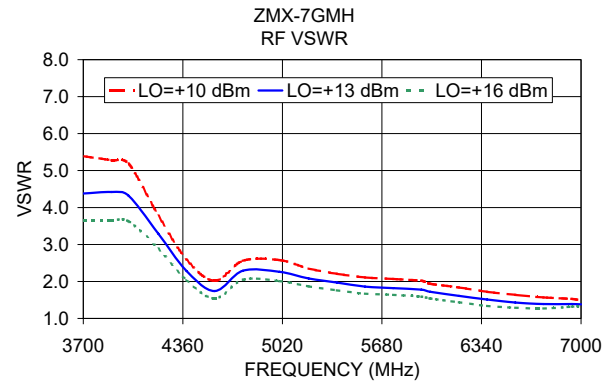
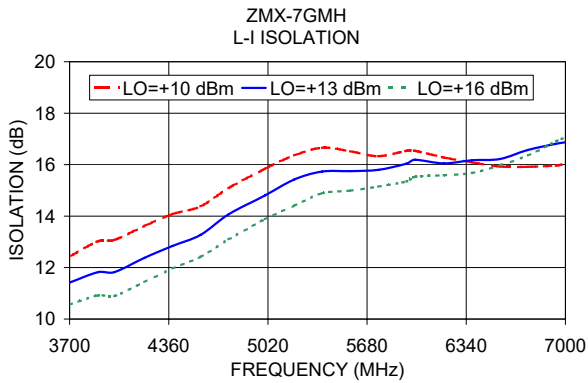
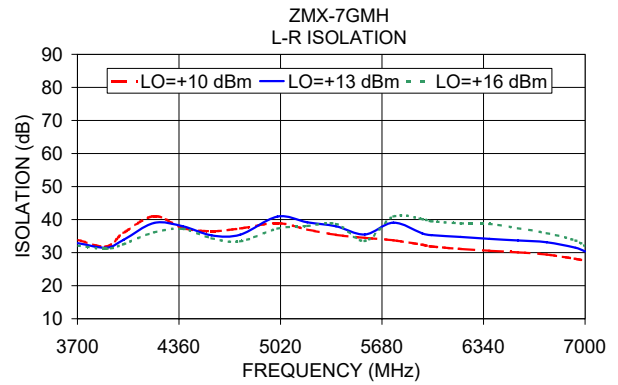
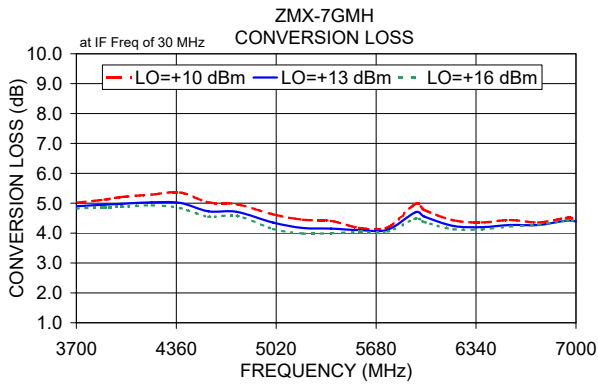
Electrical Schematic



Notes

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