

Coaxial Frequency Mixer

ZMX-7GMH

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

Maximum Ratings

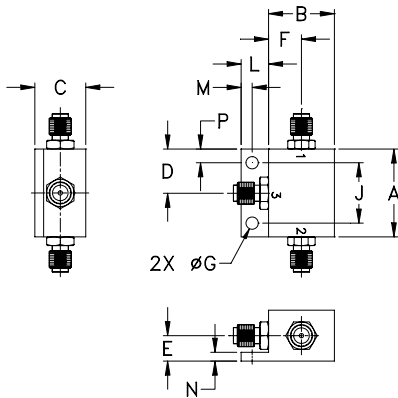
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power	200mW
IF Current	40mA

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

Coaxial Connections

LO	1
RF	2
IF	3

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	

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



CASE STYLE: BU413

Connectors	Model	Price	Qty.
SMA	ZMX-7GMH	\$74.95 ea.	(1-9)

Electrical Specifications

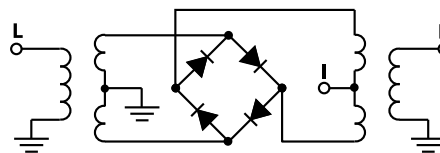
FREQUENCY (MHz)	CONVERSION LOSS (dB)	LO-RF ISOLATION (dB)		LO-IF ISOLATION (dB)				
		Typ.	Min.	Typ.	Min.			
3700-7000	DC-2000	4.7	0.20	8.0	37	20	17	8

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)	
						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



Mini-Circuits
ISO 9001 ISO 14001 AS 9100 CERTIFIED

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