

Coaxial Frequency Mixer

ZMX-8GH

Level 17 (LO Power +17 dBm) 3700 to 8000 MHz

Maximum Ratings

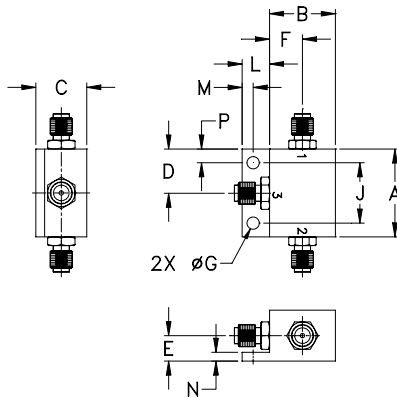
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power	200mW
IF Current	40mA

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 8000 MHz
- low conversion loss, 5.8 dB typ.
- high L-R isolation, 40 dB typ.

Applications

- SATCOM
- instrumentation
- defense & federal communications
- SHF



CASE STYLE: BU413

Connectors	Model
SMA	ZMX-8GH

Electrical Specifications

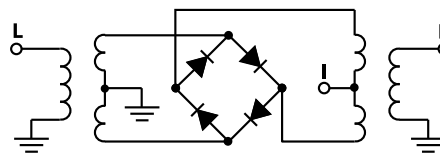
FREQUENCY (MHz)	CONVERSION LOSS (dB)	LO-RF ISOLATION (dB)		LO-IF ISOLATION (dB)		
		Typ.	Min.	Typ.	Min.	
3700-8000	DC-2000	5.8	0.30	8.5	40 20	18 8

1 dB COMP.: +14 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 +17dBm
3700.00	3730.00	4.92	33.44	12.23	5.02	1.98
3886.79	3916.79	4.99	31.47	12.75	5.42	1.90
4000.00	4030.00	5.03	32.33	13.05	5.47	2.04
4260.38	4290.38	4.94	41.36	14.54	5.55	2.28
4509.43	4539.43	4.87	35.93	14.36	6.15	2.32
4758.49	4788.49	4.82	34.53	15.93	5.69	2.46
5000.00	4970.00	4.34	40.09	17.09	5.09	2.46
5256.60	5226.60	4.34	40.85	17.27	3.30	2.51
5505.66	5475.66	4.30	38.82	18.71	2.15	2.32
5754.72	5724.72	4.42	40.06	18.33	1.77	2.56
6000.00	5970.00	5.20	36.23	18.33	1.74	2.61
6439.62	6409.62	4.38	33.53	17.51	1.73	2.28
6688.68	6658.68	4.17	31.56	17.45	1.64	1.87
7000.00	6970.00	4.42	29.88	17.86	1.59	1.81
7240.00	7210.00	4.51	27.35	17.67	1.55	2.13
7493.33	7463.33	4.39	24.88	17.03	1.40	1.76
7683.33	7653.33	4.71	22.85	16.56	1.25	1.27
7746.67	7716.67	4.97	22.55	17.30	1.13	1.29
7810.00	7780.00	5.05	22.39	17.74	1.10	1.27
8000.00	7970.00	4.96	22.56	21.24	1.08	1.28

Electrical Schematic



Mini-Circuits
ISO 9001 ISO 14001 AS 9100 CERTIFIED

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine www.minicircuits.com Provides ACTUAL Data Instantly at [minicircuits.com](http://www.minicircuits.com)

IF/RF MICROWAVE COMPONENTS

For detailed performance specs & shopping online see web site

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