

Coaxial Frequency Mixer

Level 10 (LO Power +10 dBm) 3700 to 8000 MHz

ZMX-8GLH

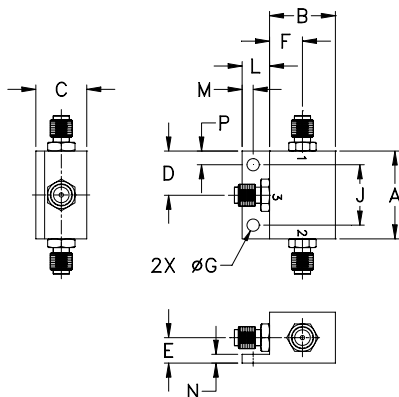
Maximum Ratings

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

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, 5.5 dB typ.
- high L-R isolation, 40 dB typ.

Applications

- SATCOM
- instrumentation
- defense & federal communications
- SHF



CASE STYLE: BU413

Connectors	Model	Price	Qty.
SMA	ZMX-8GLH	\$74.95 ea.	(1-9)

Electrical Specifications

FREQUENCY (MHz)		CONVERSION LOSS* (dB)			LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
LO/RF	IF	$f_L - f_U$	$\bar{X}$	σ	Total Range Max.	Typ.	Min.	Typ.	Min.	
3700-8000	DC-2000		5.5	0.20	8.5	40	20	18	8	

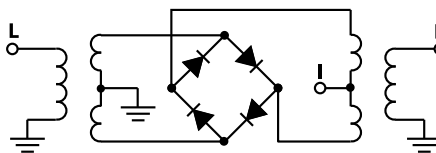
1 dB COMP.: +5 dBm typ.

* Above 750 MHz IF, conversion loss increases up to 9.8 dB max.

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 +10dBm	LO +10dBm	LO +10dBm	LO +10dBm	LO +10dBm
3700.00	3730.00	5.07	34.59	10.57	5.02	1.98
3918.64	3948.64	5.14	34.05	11.06	5.42	1.90
4000.00	4030.00	5.12	34.96	11.46	5.47	2.04
4283.05	4313.05	5.15	40.84	12.40	5.55	2.28
4574.58	4604.58	4.92	41.61	13.36	6.15	2.32
4866.10	4896.10	4.80	37.25	14.74	5.69	2.46
5000.00	4970.00	4.54	39.42	15.24	5.09	2.46
5303.39	5273.39	4.35	44.52	16.07	3.30	2.51
5594.92	5564.92	4.53	45.25	16.55	2.15	2.32
5886.44	5856.44	5.22	47.16	17.07	1.77	2.56
6000.00	5970.00	5.01	40.82	17.08	1.74	2.61
6323.73	6293.73	4.46	37.37	17.40	1.73	2.28
6615.25	6585.25	4.28	34.74	17.53	1.64	1.87
6906.78	6876.78	4.30	34.56	17.94	1.59	1.81
7000.00	6970.00	4.29	34.69	18.21	1.55	2.13
7271.19	7241.19	4.28	32.95	18.54	1.40	1.76
7562.71	7532.71	4.48	30.79	18.69	1.25	1.27
7854.24	7824.24	4.94	31.13	19.25	1.13	1.29
7927.12	7897.12	5.07	31.80	19.44	1.10	1.27
8000.00	7970.00	5.20	32.79	19.74	1.08	1.28

Electrical Schematic



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IF/RF MICROWAVE COMPONENTS

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