

# Frequency Mixer

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

## ZMX-8GH



CASE STYLE: BU413

Connectors	Model	Price	Qty.
SMA	ZMX-8GH	\$89.95 ea.	(1-9)

### Maximum Ratings

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

### Coaxial Connections

LO	1
RF	2
IF	3

### Features

- wide frequency range, 3700 to 8000 MHz
- low conversion loss, 5.8 dB typ.
- high L-R isolation, 40 dB typ.

### Applications

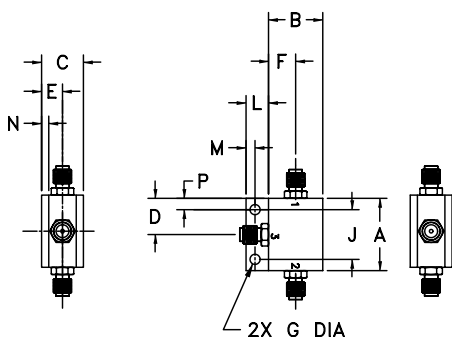
- SATCOM
- instrumentation
- defense & federal communications
- SHF

### Electrical Specifications

FREQUENCY (MHz)		CONVERSION LOSS (dB)			LO-RF ISOLATION (dB)		LO-IF ISOLATION (dB)	
LO/RF	IF	$\bar{X}$	$\sigma$	Total Range Max.	Typ.	Min.	Typ.	Min.
$f_L - f_U$								
3700-8000	DC-2000	5.8	0.30	8.5	40	20	18	8

1 dB COMP.: +14 dBm typ.

### 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	

### 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 +17dBm	LO +17dBm	LO +17dBm	LO +17dBm	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

