

Coaxial Frequency Mixer

Level 17 (LO Power +17 dBm) 3700 to 7000 MHz

ZMX-7GHR

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	2
RF	1
IF	3

Features

- wide frequency range, 3700 to 7000 MHz
- low conversion loss, 5.3 dB typ.
- good L-R isolation, 33 dB typ., L-I, 34 dB typ.

Applications

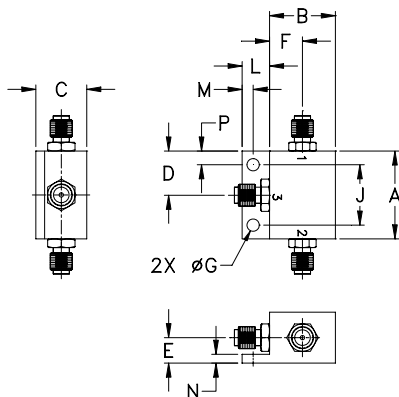
- SATCOM
- instrumentation
- defense & federal communications
- SHF



CASE STYLE: BU413

Connectors	Model	Price	Qty.
SMA	ZMX-7GHR	\$84.95 ea.	(1-9)

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

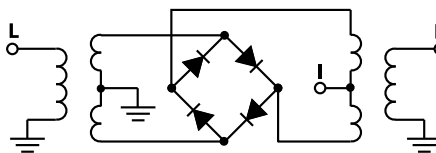
FREQUENCY (MHz)		CONVERSION LOSS (dB)		LO-RF ISOLATION (dB)		LO-IF ISOLATION (dB)		
LO/RF	IF			Total Range Max.	Typ.	Min.	Typ.	Min.
f _L -f _U		$\overline{X}$	σ					
3700-7000	DC-1000	5.3	0.30	8.5	33	20	34	20

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)
RF	LO	LO +17dBm	LO +17dBm	LO +17dBm	LO +17dBm	LO +17dBm
3700.00	3730.00	3.95	31.94	27.92	1.61	1.71
3886.79	3916.79	4.04	29.49	29.05	1.40	1.73
4000.00	4030.00	4.07	31.32	29.24	1.88	1.81
4260.38	4290.38	4.38	38.08	31.10	2.99	1.98
4509.43	4539.43	4.80	35.04	30.94	3.21	1.73
4696.23	4726.23	5.21	31.75	31.14	2.95	1.69
4883.02	4913.02	5.30	31.22	31.93	2.73	1.61
5000.00	4970.00	5.23	32.26	32.82	2.78	1.52
5194.34	5164.34	5.41	32.90	34.00	3.05	1.36
5381.13	5351.13	5.55	31.71	34.53	3.31	1.31
5567.92	5537.92	5.73	30.38	34.46	3.64	1.33
5754.72	5724.72	5.70	31.17	34.72	4.13	1.35
6000.00	5970.00	6.11	30.09	34.77	5.23	1.17
6252.83	6222.83	6.58	29.87	34.26	5.86	1.10
6315.09	6285.09	6.91	30.08	34.24	6.08	1.13
6501.89	6471.89	6.95	30.95	33.65	6.11	1.20
6626.42	6596.42	6.82	30.68	32.90	6.05	1.23
6750.94	6720.94	6.68	29.96	32.03	6.20	1.23
6875.47	6845.47	6.55	29.25	31.16	6.04	1.23
7000.00	6970.00	6.40	28.57	30.32	5.81	1.17

Electrical Schematic



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IF/RF MICROWAVE COMPONENTS

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For detailed performance specs
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