

Coaxial Frequency Mixer

Level 7 (LO Power +7 dBm) 3700 to 10000 MHz

ZMX-10G+

Maximum Ratings

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

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

Coaxial Connections

LO	1
RF	2
IF	3

Features

- wide frequency range, 3700 to 10000 MHz
- low conversion loss, 5.0 dB typ.
- high L-R isolation, 30 dB typ.

Applications

- SATCOM
- instrumentation
- defense & federal communications
- SHF



CASE STYLE: BU413

Connectors	Model	Price	Qty.
SMA	ZMX-10G+	\$81.95 ea.	(1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Electrical Specifications

FREQUENCY (MHz)	CONVERSION LOSS (dB)	LO-RF ISOLATION (dB)		LO-IF ISOLATION (dB)	
		Typ.	Min.	Typ.	Min.
LO/RF $f_L - f_U$	$\bar{X}$ σ Total Range Max.				
3700-10000 DC-2000	5.0 0.10 8.5	30	20*	17	8

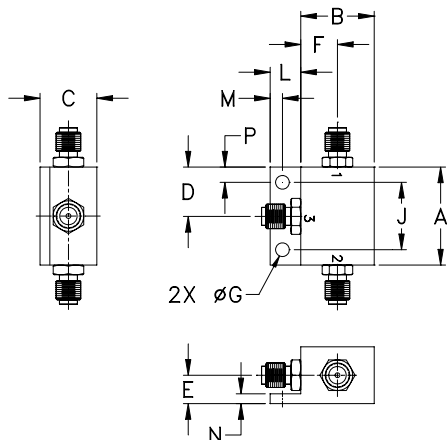
1 dB COMP.: +1 dBm typ.

* 15 dB min. 8.5 to 10 GHz

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 +7dBm	LO +7dBm	LO +7dBm	LO +7dBm	LO +7dBm
3700.00	3730.00	4.99	34.57	12.28	2.40	2.93
4000.00	4030.00	5.05	33.76	12.98	2.46	2.46
4337.97	4367.97	5.02	44.41	13.90	2.44	2.41
4656.96	4686.96	4.95	36.62	14.49	2.49	2.51
5000.00	4970.00	4.44	38.22	15.80	2.54	2.28
5374.68	5344.68	4.33	39.47	16.96	2.52	2.24
5773.42	5743.42	4.40	38.75	17.25	2.48	3.01
6000.00	5970.00	4.84	35.07	17.16	2.47	3.36
6411.39	6381.39	4.43	33.08	16.34	2.51	1.98
6810.13	6780.13	4.65	31.52	16.66	2.42	3.09
7000.00	6970.00	4.76	31.02	17.09	2.26	2.73
7448.10	7418.10	4.94	26.55	17.02	1.77	1.14
7846.84	7816.84	5.62	24.43	17.82	1.41	1.83
8000.00	7970.00	5.63	24.81	19.24	1.46	2.20
8325.32	8295.32	5.54	25.45	23.21	1.74	2.61
8724.05	8694.05	5.72	24.75	26.18	2.32	2.04
9000.00	8970.00	5.63	24.10	27.42	2.90	2.73
9282.28	9252.28	5.53	22.97	27.93	3.61	3.95
9681.01	9651.01	6.49	20.82	28.97	4.53	3.36
10000.00	9970.00	7.60	19.42	31.29	5.06	3.46

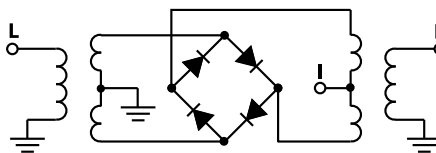
Outline Drawing



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 Schematic



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IF/RF MICROWAVE COMPONENTS

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp.

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Page 1 of 2

