

Coaxial Frequency Mixer

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

ZMX-10G+
ZMX-10G



CASE STYLE: BU413

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

Features

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

Applications

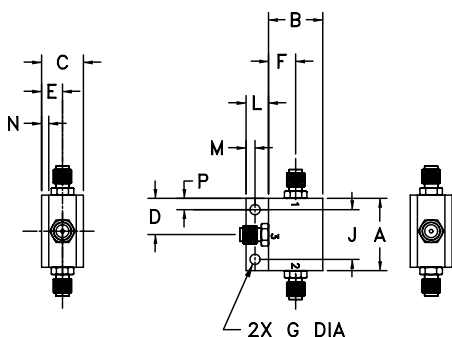
- SATCOM
- instrumentation
- defense & federal communications
- SHF

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

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

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

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							
f _L -f _U		$\overline{X}$	σ	Total Range Max.	Typ.	Min.	Typ.	Min.
3700-10000	DC-2000	5.0	0.10	8.5	30	20*	17	8

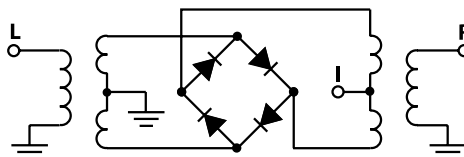
1 dB COMP.: +1 dBm typ.

* 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

Electrical Schematic



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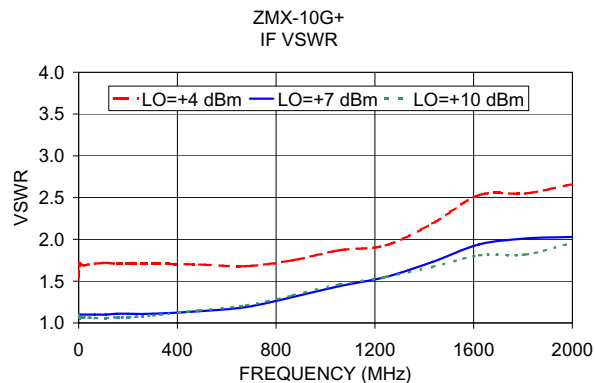
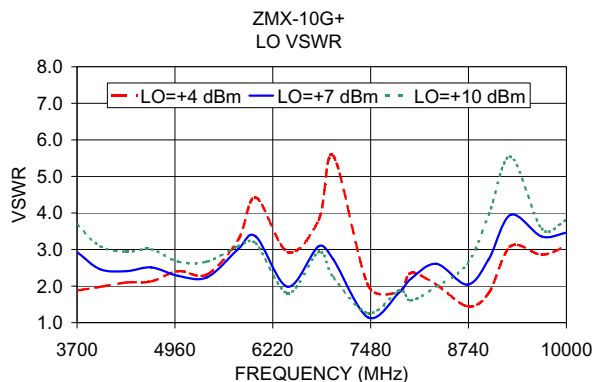
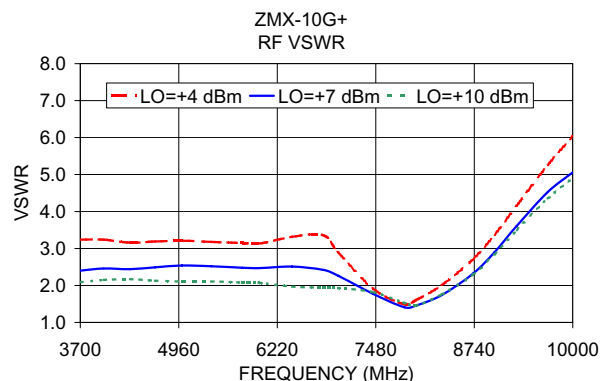
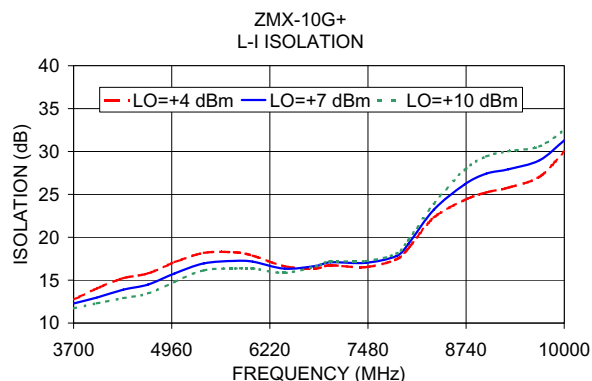
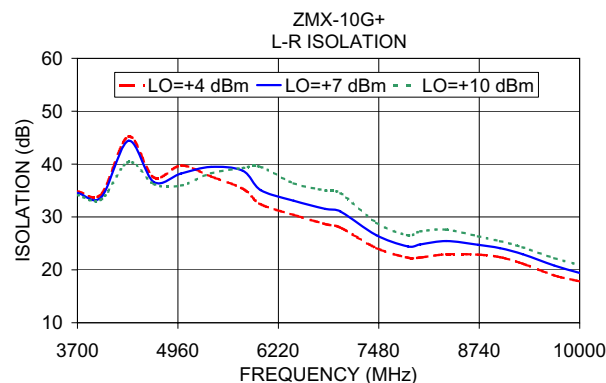
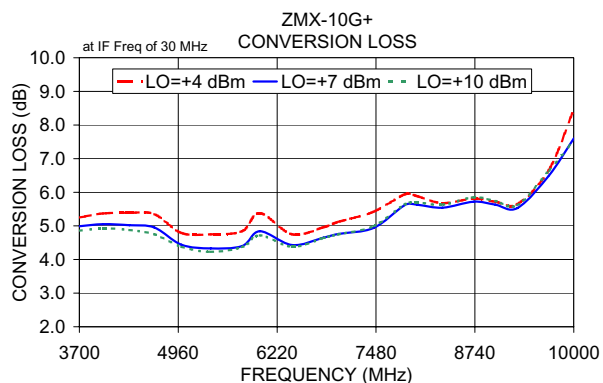
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RF/IF MICROWAVE COMPONENTS

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Performance Charts

ZMX-10G+ ZMX-10G



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