

Coaxial Frequency Mixer

NON-CATALOG

ZFM-12+

Level 7 (LO Power +7 dBm) 800 to 1250 MHz



SMA version shown
CASE STYLE: K18

Connectors	Model
SMA	ZFM-12-S+
BRACKET (OPTION "B")	

+RoHS Compliant

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

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

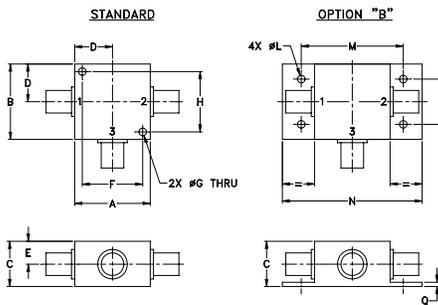
Features

- low conversion loss, 5.67 dB typ.
- good L-R isolation, 35 dB typ, L-I, 30 dB typ.
- rugged shielded case

Applications

- VHF/UHF
- cellular
- GPS
- instrumentation

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H
1.25	1.25	.75	.63	.38	1.00	.125	1.000
31.75	31.75	19.05	16.00	9.65	25.40	3.18	25.40
J	K	L	M	N	P	Q	wt
--	--	.125	1.688	2.18	.75	.07	grams
--	--	3.18	42.88	55.37	19.05	1.78	70.0

Electrical Specifications

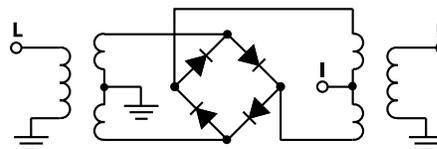
FREQUENCY (MHz)		CONVERSION LOSS (dB)			LO-RF ISOLATION (dB)		LO-IF ISOLATION (dB)	
LO/RF	IF	Mid-Band		Total Range Max.	Typ.	Min.	Typ.	Min.
f_L-f_U		\bar{X}	σ					
800-1250	50-90	5.67	0.12	7.5	35	25	30	20

1 dB COMP.: +1 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 +7dBm	LO +7dBm	LO +7dBm	LO +7dBm	LO +7dBm
800.00	730.00	6.67	33.42	34.21	2.64	1.93
835.53	765.53	6.56	32.78	33.92	2.58	1.88
871.05	801.05	6.57	32.33	33.41	2.53	1.87
894.72	824.74	6.41	32.16	33.06	2.46	1.84
918.42	848.42	6.31	32.06	32.78	2.43	1.82
942.10	872.10	6.33	32.10	32.59	2.29	1.81
965.79	895.79	6.29	32.20	32.33	2.20	1.79
989.47	919.47	6.18	32.44	32.15	2.13	1.77
1013.20	943.20	6.19	32.61	31.91	2.07	1.77
1036.80	966.80	6.24	33.00	31.84	2.04	1.77
1060.50	990.50	6.23	33.47	31.84	1.94	1.74
1072.40	1002.40	6.34	33.61	31.77	1.89	1.74
1096.10	1026.10	6.39	33.93	31.75	1.84	1.73
1119.70	1049.70	6.52	34.25	31.80	1.78	1.69
1143.40	1073.40	6.67	34.50	31.82	1.76	1.69
1167.10	1097.10	6.77	34.75	31.82	1.73	1.65
1190.80	1120.80	6.90	35.42	32.00	1.71	1.62
1214.50	1144.50	6.95	36.69	32.00	1.73	1.59
1238.20	1168.20	7.04	38.41	33.59	1.73	1.57
1250.00	1180.00	7.00	39.24	34.65	1.75	1.51

Electrical Schematic



Mini-Circuits
ISO 9001 ISO 14001 AS 9100 CERTIFIED

For detailed performance specs & shopping online see web site

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IF/RF MICROWAVE COMPONENTS

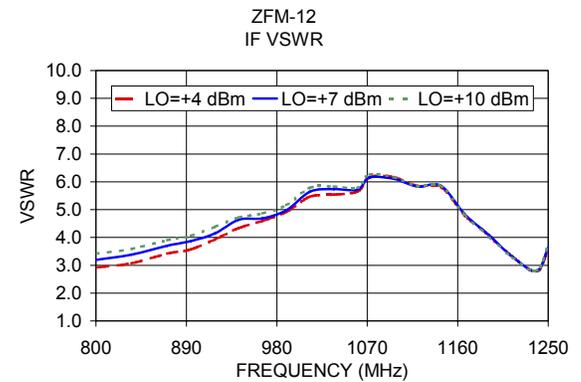
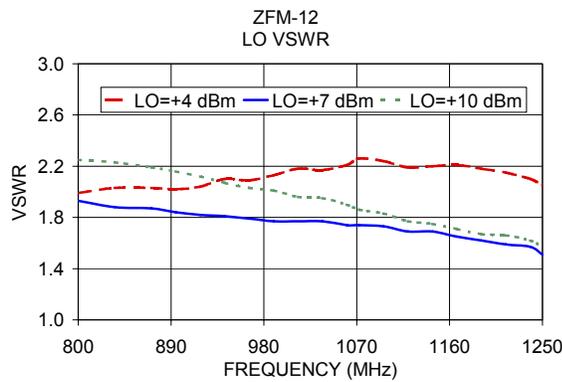
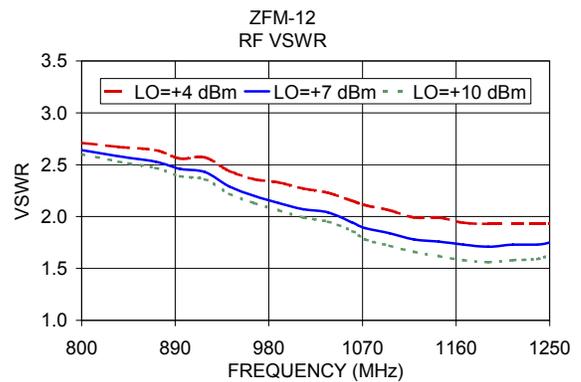
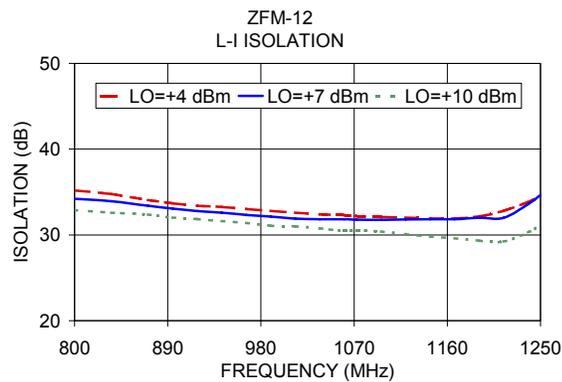
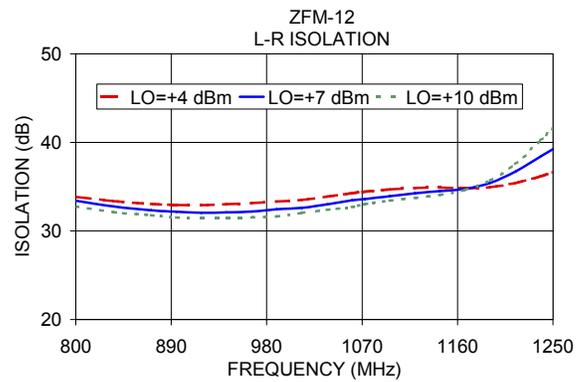
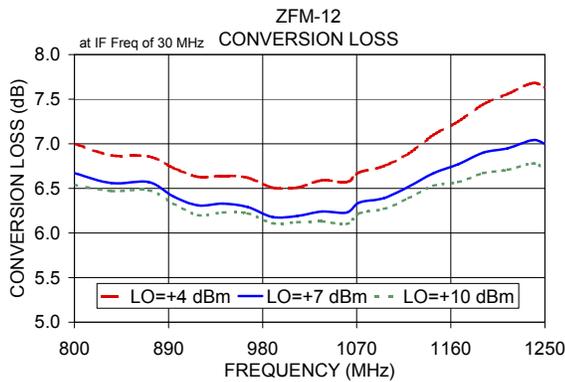
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Performance Charts

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