

Coaxial Frequency Mixer

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

Maximum Ratings

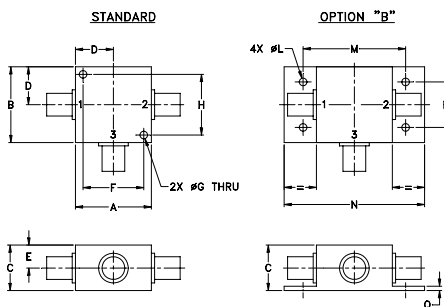
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power	50mW
IF Current	40mA

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

Coaxial Connections

LO	1
RF	2
IF	3

Outline Drawing



Outline Dimensions (inch)

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

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

ZFM-12+
ZFM-12



SMA version shown
CASE STYLE: K18

Connectors	Model	Price	Qty.
BNC	ZFM-12 (+)	\$79.95 ea.	(1-9)
SMA	ZFM-12-S (+)	\$84.95 ea.	(1-9)
BRACKET (OPTION "B")		\$5.00	(1+)

+ 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.

Electrical Specifications

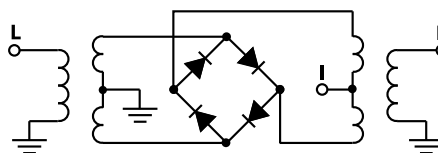
FREQUENCY (MHz)		CONVERSION LOSS (dB)		LO-RF ISOLATION (dB)		LO-IF ISOLATION (dB)		
LO/RF	IF	Mid-Band						
f_L - f_U		$\overline{X}$	σ	Total Range Max.	Typ.	Min.	Typ.	Min.
800-1250	50-90	5.67	0.12	7.5	35	25	30	20

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



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ISO 9001 ISO 14001 AS 9100 CERTIFIED

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IF/RF MICROWAVE COMPONENTS

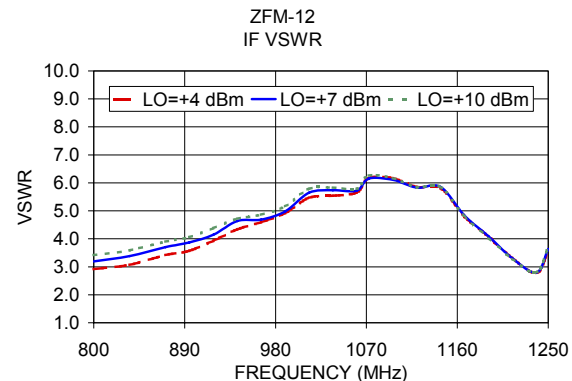
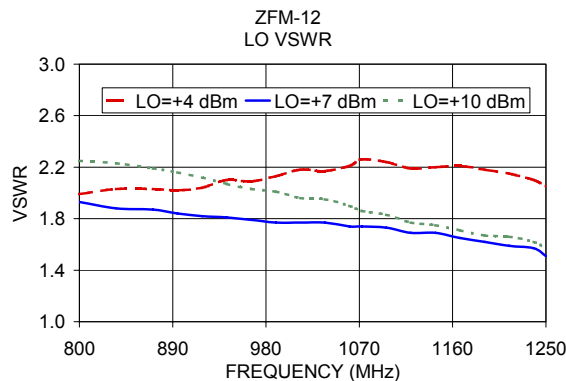
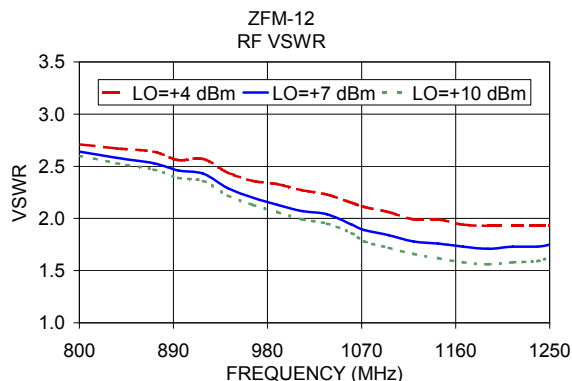
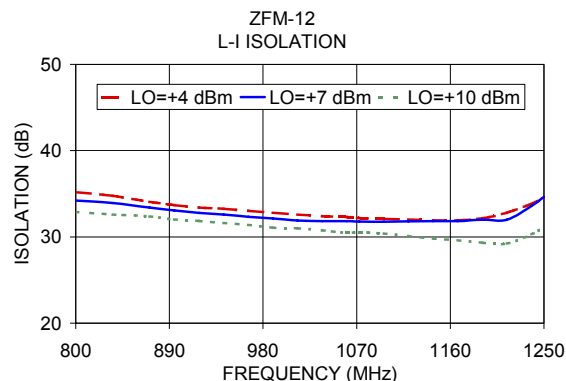
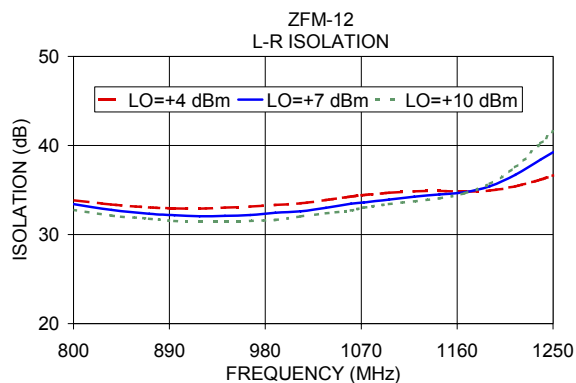
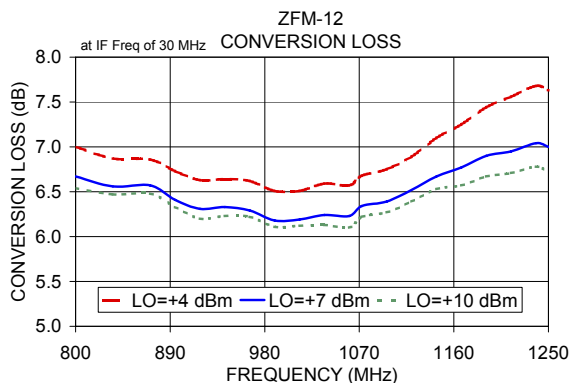
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Performance Charts

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ZFM-12



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