

# Coaxial Frequency Mixer

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

## ZFM-12+ ZFM-12



SMA version shown  
CASE STYLE: K18

### 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

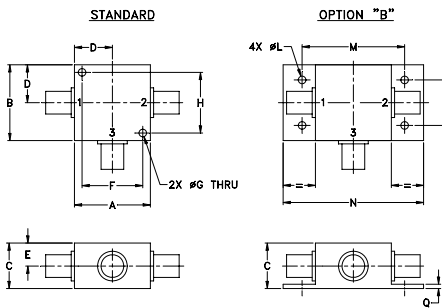
- VHF/UHF
- cellular
- GPS
- instrumentation

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.

### 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

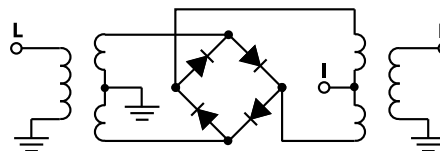
FREQUENCY (MHz)		CONVERSION LOSS (dB)			LO-RF ISOLATION (dB)		LO-IF ISOLATION (dB)	
LO/RF	IF	Mid-Band		Total Range Max.	Typ.	Min.	Typ.	Min.
$f_L - f_U$		$\bar{X}$	$\sigma$					
800-1250	50-90	5.67	0.12	7.5	35	25	30	20

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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IF/RF MICROWAVE COMPONENTS

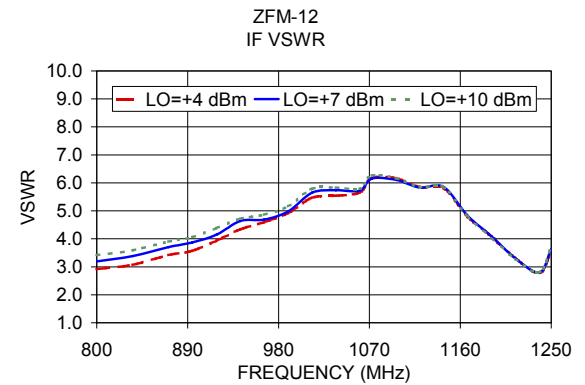
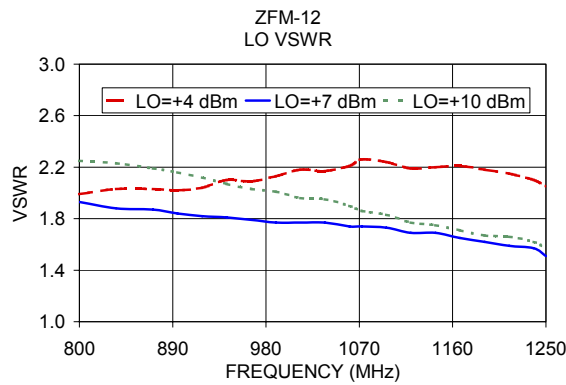
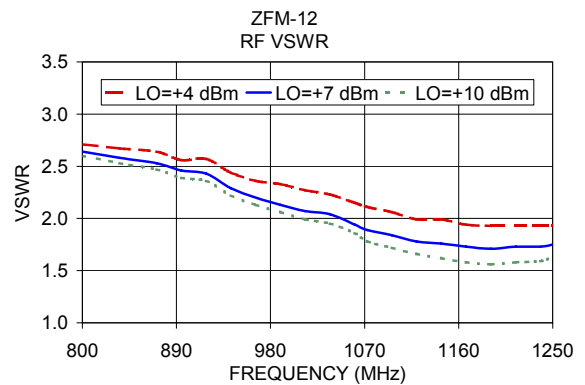
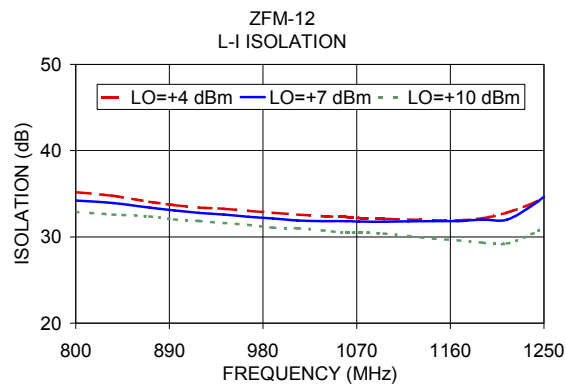
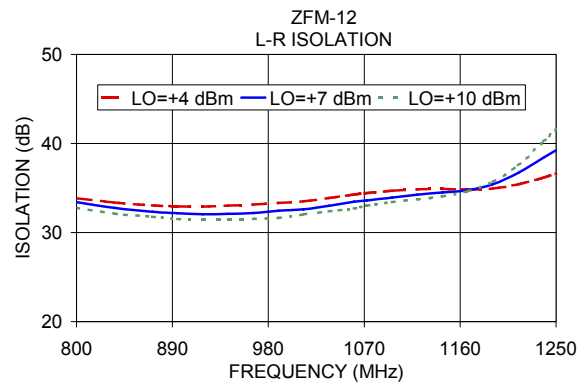
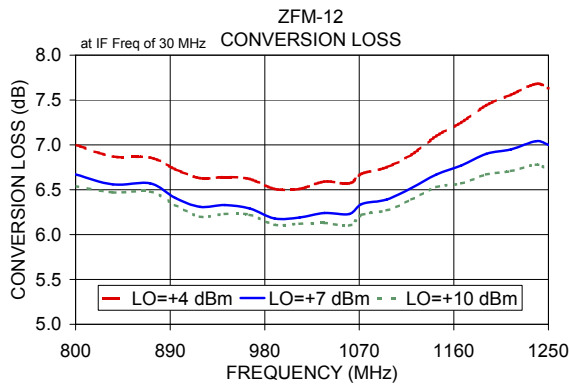
For detailed performance specs & shopping online see web site

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# Performance Charts

# ZFM-12+ ZFM-12



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