

Coaxial Frequency Mixer

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

ZLW-12+
ZLW-12

Maximum Ratings

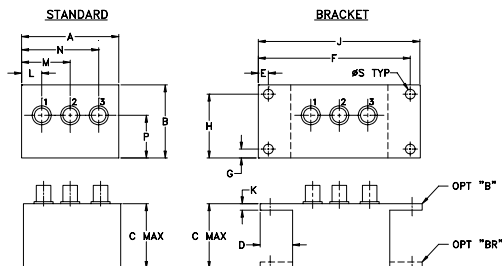
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power	50mW
IF Current	40mA

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

Coaxial Connections

LO	1
RF	3
IF	2

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H
1.50	1.13	1.00	.50	.155	2.345	.138	.987
38.10	28.70	25.40	12.70	3.94	59.56	3.51	25.07

J	K	L	M	N	P	S	wt
2.50	.10	.31	.75	1.19	.66	.150	grams
63.50	2.54	7.87	19.05	30.23	16.76	3.81	40.0

Features

- low conversion loss, 6.21 dB typ.
- good L-R isolation, 35 dB typ., L-I, 30 dB typ.
- rugged shielded case

Applications

- cellular



HT-Series
Tight Spot
SMA Wrench
From \$24.95

CASE STYLE: M21

Connectors	Model	Price	Qty.
SMA	ZLW-12(+)	\$71.95 ea.	(1-9)

+RoHS Compliant

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		L		M		U		L		M		U	
f_L - f_U		$\bar{X}$	σ	Total Range Max.											
Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.
800-1250	50-90	6.21	0.13	7.5		35	25	35	25	35	25	30	20	30	20

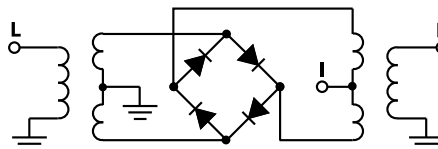
1 dB COMP.: +1 dBm typ.

L = low range [f_L to $10 f_L$] M = mid range [$10 f_L$ to $f_U/2$] U = upper range [$f_U/2$ to f_U]
m = mid band [$2f_L$ to $f_U/2$]

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



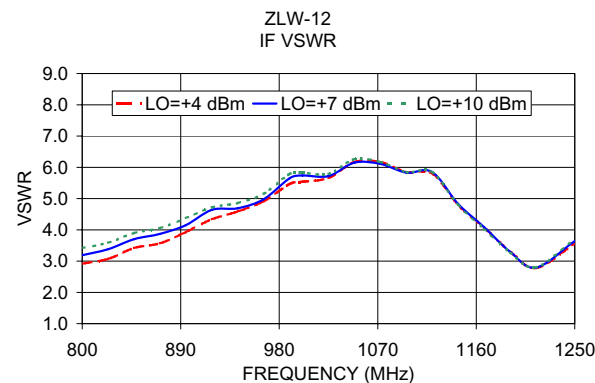
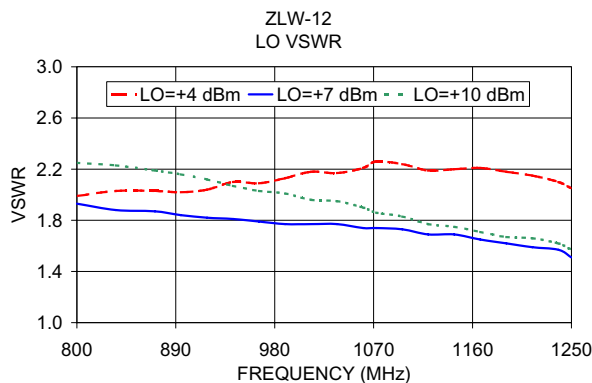
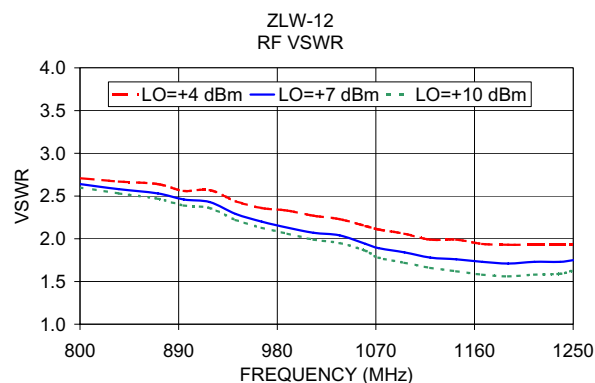
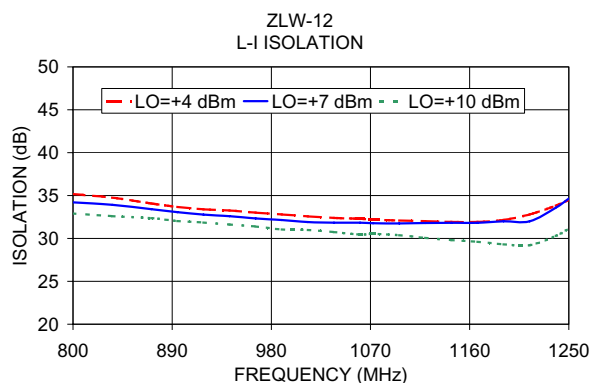
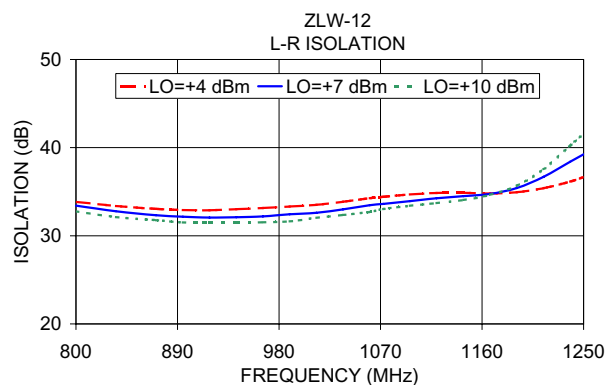
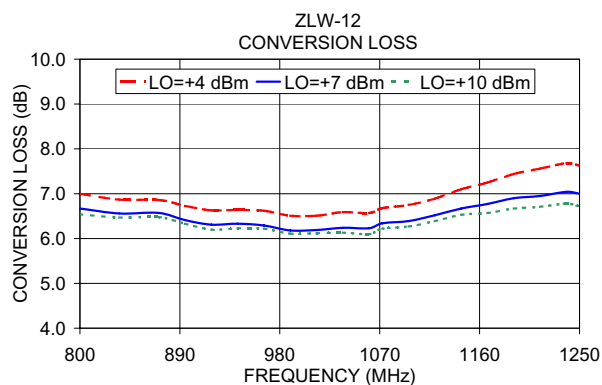
Notes

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