

Coaxial Frequency Mixer

Level 17 (LO Power +17 dBm) 2 to 1000 MHz

ZLW-2H+
ZLW-2H



Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power	200mW
IF Current	40mA

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

Coaxial Connections

LO	1
RF	3
IF	2

Features

- low conversion loss, 6.34 dB typ.
- good L-R isolation, 35 dB typ., L-I, 30 dB typ.
- wideband, 2 to 1000 MHz
- rugged shielded case

Applications

- VHF/UHF
- cellular
- instrumentation

CASE STYLE: M21

Connectors	Model	Price	Qty.
SMA	ZLW-2H(+)	\$64.95 ea.	(1-9)
BRACKET (OPTION "B")		\$5.00	(1+)
BRACKET (OPTION "BR")		\$1.50	(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 m				L M U						L M U					
f_L - f_U		$\bar{X}$	σ	Max.	Total Range Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.
2-1000	DC-1000	6.34	0.14	7.5	10.0	50	40	35	25	35	25	45	35	30	20	25	20

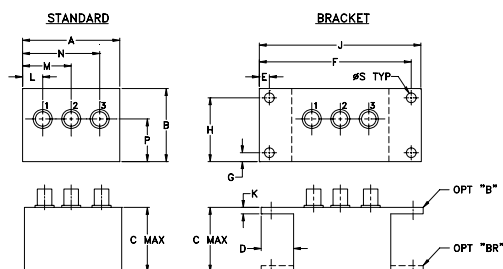
1 dB COMP.: +10 dBm typ.

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 +17dBm	LO +17dBm	LO +17dBm	LO +17dBm	LO +17dBm
2.00	32.00	6.71	49.37	47.92	1.29	2.33
34.19	64.19	6.17	46.77	45.60	1.02	2.11
66.39	96.39	6.25	45.81	44.10	1.01	2.15
130.78	100.78	6.14	44.80	41.52	1.01	2.04
195.16	165.16	6.30	43.07	39.47	1.02	2.05
227.36	197.36	6.32	41.46	37.60	1.04	1.99
291.75	261.75	6.23	39.76	35.26	1.05	1.99
356.13	326.13	6.42	38.97	33.32	1.07	1.98
420.52	390.52	6.62	37.70	31.07	1.08	2.04
484.91	454.91	6.65	37.81	29.46	1.09	2.01
517.10	487.10	6.59	37.82	29.13	1.12	2.01
549.30	519.30	6.96	38.18	30.50	1.15	2.02
645.88	615.88	7.10	37.13	29.06	1.30	1.97
678.07	648.07	7.02	33.22	26.56	1.38	1.93
742.46	712.46	6.87	32.76	24.80	1.62	1.92
806.85	776.85	7.04	31.78	23.82	2.00	1.96
871.24	841.24	8.09	32.53	23.46	2.47	1.97
935.63	905.63	8.66	33.52	23.26	3.33	1.98
967.82	937.82	8.70	34.06	22.82	3.56	2.02
1000.00	970.00	8.81	33.66	22.59	3.82	2.11

Outline Drawing

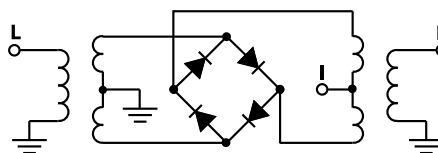


Outline Dimensions (inch/mm)

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

Electrical Schematic



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IF/IRF MICROWAVE COMPONENTS

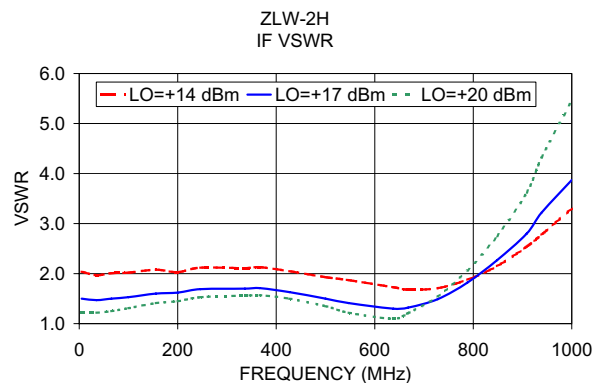
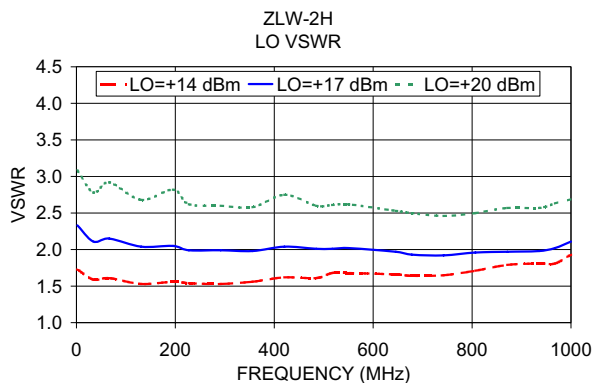
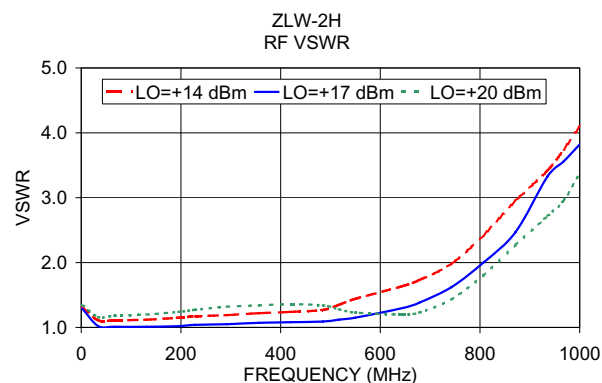
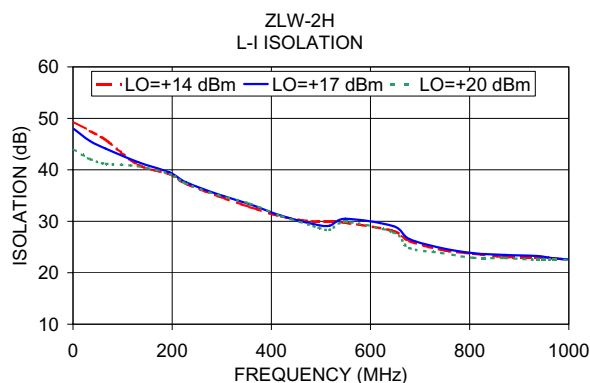
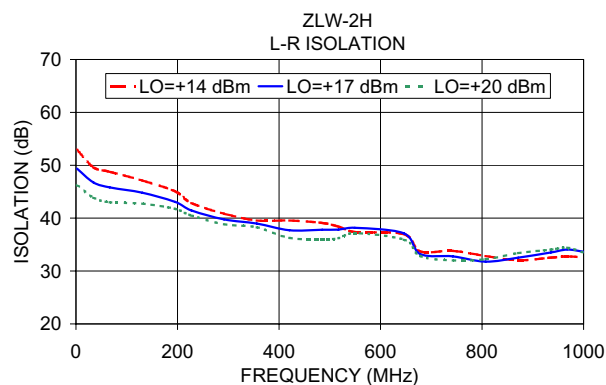
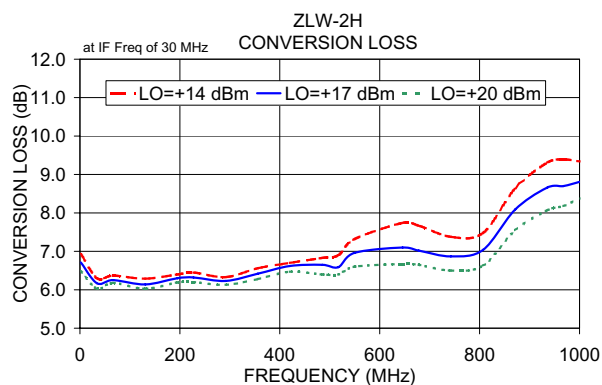
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Performance Charts

ZLW-2H+ ZLW-2H



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