

Coaxial Frequency Mixer

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

ZLW-2H



CASE STYLE: M21

Maximum Ratings

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

Coaxial Connections

LO	1
RF	3
IF	2

Features

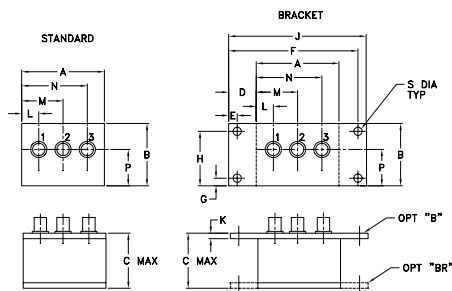
- low conversion loss, 6.34 dB typ.
- good L-R isolation, 35 dB typ., L-I, 30 dB typ.
- wideband, 2 to 1000 MHz
- rugged shielded case

Applications

- VHF/UHF
- cellular
- instrumentation

Connectors	Model	Price	Qty.
BNC	ZLW-2H	\$64.95 ea.	(1-9)
BRACKET (OPTION "B")		\$5.00	(1+)
BRACKET (OPTION "BR")		\$2.50	(1+)

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 Specifications

FREQUENCY (MHz)		CONVERSION LOSS (dB)				LO-RF ISOLATION (dB)						LO-IF ISOLATION (dB)					
LO/RF	IF	Mid-Band		Total		L		M		U		L		M		U	
f_L - f_U		\bar{X}	σ	Max.	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

Electrical Schematic

