

Coaxial Frequency Mixer

Level 17 (LO Power +17 dBm) 0.5 to 500 MHz

ZLW-1H



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, 6.13 dB typ.
- high L-R isolation, 45 dB typ., L-I, 40 dB typ.
- rugged shielded case

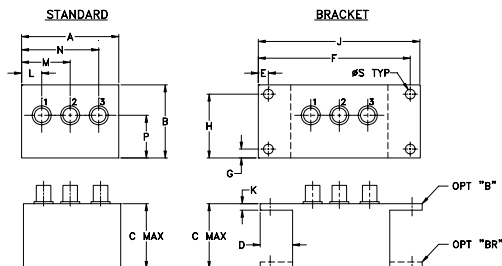
Applications

- VHF/UHF
- defense & federal communications
- instrumentations

CASE STYLE: M21

Connectors	Model	Price	Qty.
SMA	ZLW-1H	\$56.95 ea.	(1-9)
BRACKET (OPTION "B")		\$5.00	(1+)
BRACKET (OPTION "BR")		\$1.50	(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 m				L		M		U		L		M		U	
		$f_L - f_U$	$\bar{X}$	σ	Max.												
0.5-500	DC-500	6.13	0.08	7.5	8.5	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.

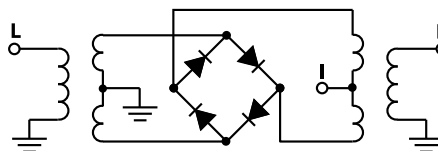
1 dB COMP.: +10 dBm typ.

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
0.50	30.50	7.38	64.73	58.33	1.26	2.93
2.00	32.00	6.29	62.80	57.04	1.13	2.80
10.00	40.00	5.89	58.80	53.94	1.08	2.61
20.00	50.00	5.93	51.76	47.62	1.09	2.57
50.00	80.00	5.91	48.13	44.45	1.10	2.57
81.07	51.07	5.84	43.91	40.75	1.12	2.72
100.00	70.00	5.82	42.51	39.43	1.12	2.57
129.40	99.40	5.85	41.76	38.65	1.14	2.45
161.63	131.63	5.90	39.94	37.09	1.16	2.59
193.86	163.86	5.98	38.70	35.65	1.17	2.39
226.08	196.08	6.10	38.27	35.36	1.18	2.34
258.31	228.31	6.01	37.16	34.23	1.24	2.56
274.42	244.42	5.97	36.62	33.23	1.26	2.43
306.65	276.65	6.07	35.81	32.42	1.26	2.47
338.87	308.87	6.16	34.78	30.96	1.33	2.54
371.10	341.10	6.34	33.92	29.51	1.34	2.45
403.33	373.33	6.42	33.83	28.51	1.36	2.59
435.55	405.55	6.60	34.53	28.16	1.39	2.55
467.78	437.78	6.76	35.55	28.51	1.40	2.52
500.00	470.00	6.85	34.97	28.71	1.42	2.52

Electrical Schematic



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IF/RF MICROWAVE COMPONENTS

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