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Coaxial

Frequency Mixer

Level 17 (LO Power +17 dBm) 10 to 3000 MHz

ZLW-11H+
ZLW-11H





CASE STYLE: M21

Connectors	Model	Price	Qty.
SMA	ZLW-11H(+)	$99.95 ea.	(1-9)
BRACKET (OPTION "B")		$5.00	(1+)
BRACKET (OPTION "BR")		$1.50	(1+)

+RoHS Compliant
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

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

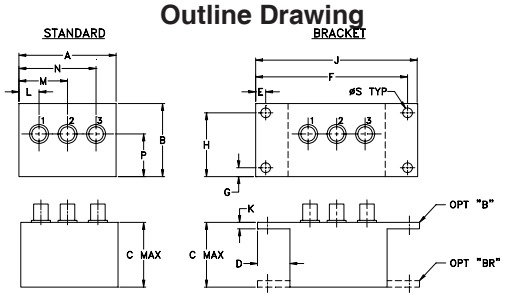
Features

- low conversion loss, 6.83 dB typ.
- wideband, 10 to 3000 MHz
- rugged shielded case

Applications

- cellular
- GPS
- MMDS
- PCS
- instrumentation
- terrestrial radio

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			Total Range	L		M		U		L		M		U	
f_L-f_U		$\overline{X}$	σ	Max.	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.
10-3000	10-1000	6.83	0.09	10.0	12.0	27	20	25	18	23	16	27	20	25	18	23	16

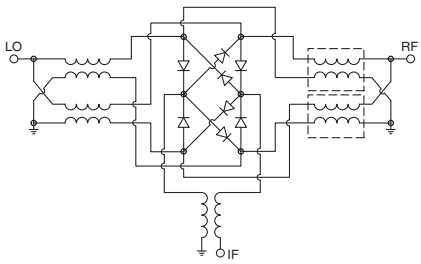
1 dB COMP.: +10 dBm typ.

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
10.00	40.00	6.43	32.26	35.01	1.13	2.07
20.00	50.00	6.58	33.52	36.23	1.07	2.19
103.44	73.44	6.60	32.25	33.97	1.08	2.01
200.00	170.00	6.78	30.89	32.03	1.13	1.96
290.31	260.31	6.75	29.76	30.61	1.18	1.91
500.00	470.00	6.94	28.74	29.28	1.29	1.83
570.63	540.69	6.81	28.80	29.04	1.34	1.81
757.50	727.50	7.00	28.06	28.08	1.48	1.81
944.38	913.91	7.05	28.00	26.87	1.66	1.80
1037.80	1007.40	7.37	28.67	26.49	1.72	1.74
1318.10	1288.00	6.81	27.69	26.66	1.92	1.69
1505.00	1474.90	6.68	27.57	27.97	1.99	1.65
1598.40	1568.30	6.65	27.30	28.78	1.75	1.91
1785.30	1755.00	6.71	27.75	28.96	1.89	1.91
1972.20	1942.10	6.57	29.51	31.44	1.76	1.75
2065.60	2035.10	6.76	28.94	33.79	1.68	1.66
2252.50	2222.10	6.61	30.22	36.80	1.68	1.49
2439.40	2408.60	6.63	31.19	37.00	1.69	1.14
2626.30	2596.00	6.95	30.21	30.13	1.49	1.26
3000.00	2969.30	8.58	32.46	26.88	1.90	2.47

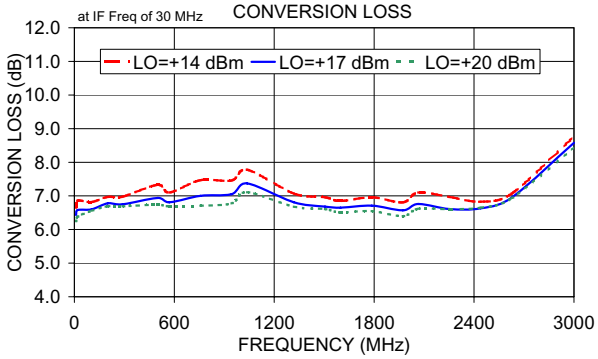
Electrical Schematic



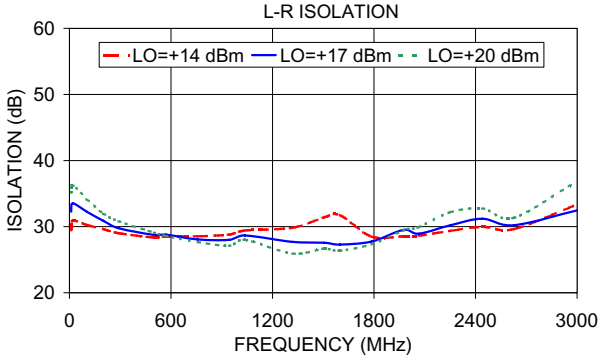
Notes
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Performance Charts

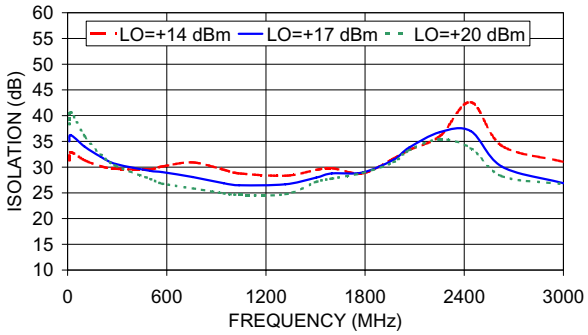
ZLW-11H
CONVERSION LOSS
at IF Freq of 30 MHz



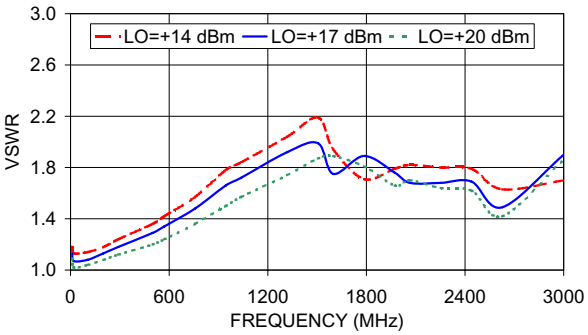
ZLW-11H
L-R ISOLATION



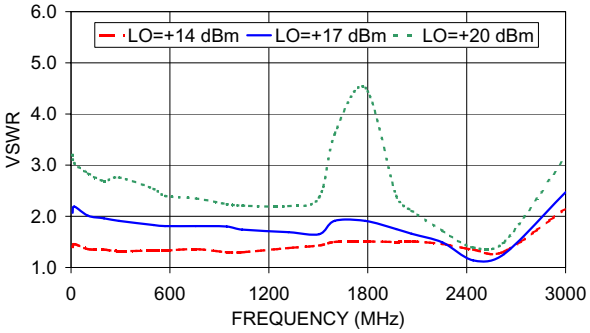
ZLW-11H
L-I ISOLATION



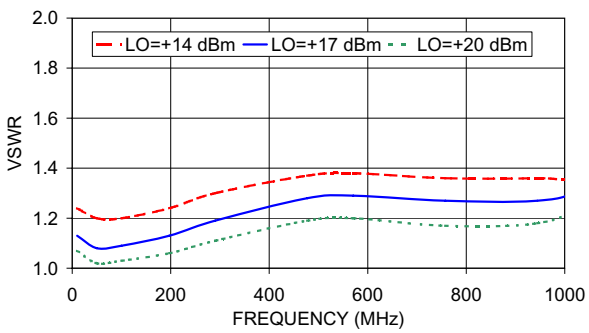
ZLW-11H
RF VSWR



ZLW-11H
LO VSWR



ZLW-11H
IF VSWR



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