

Frequency Mixer

Level 17 (LO Power +17 dBm) 1400 to 1900 MHz

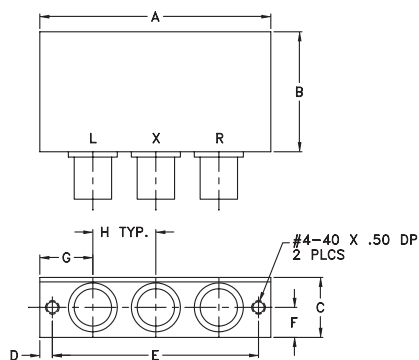
Maximum Ratings

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	L
RF	R
IF	X

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	wt
2.31	1.20	.60	.125	2.062	.30	.53	.63	grams
58.67	30.48	15.24	3.18	52.37	7.62	13.46	16.00	75.0

Features

- low conversion loss, 7.30 dB typ.
- good L-R isolation, 35 dB typ.
- rugged shielded case

Applications

- UHF
- GPS
- instrumentation
- defense communication



BNC version shown

CASE STYLE: GG60

PRICE: Contact Sales Dept.

+RoHS Compliant

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

Electrical Specifications

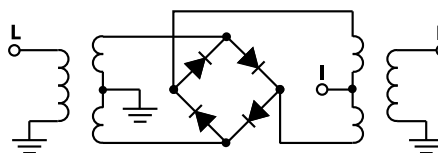
FREQUENCY (MHz)		CONVERSION LOSS (dB)			LO-RF ISOLATION (dB)		LO-IF ISOLATION (dB)	
LO/RF	IF	$\bar{X}$	σ	Total Range Max.	Typ.	Min.	Typ.	Min.
1400-1900	40-500	7.30	0.28	9.0	35	25	30	15

1 dB COMP.: +14 dBm typ.

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
1400.00	1350.00	7.77	31.27	32.09	2.14	2.49
1439.47	1359.47	7.67	30.76	31.93	1.96	2.36
1478.95	1428.97	7.43	30.37	32.04	1.78	2.40
1492.11	1442.11	7.32	30.35	32.12	1.73	2.42
1505.26	1455.26	7.19	30.39	32.21	1.63	2.40
1544.74	1494.74	7.04	30.61	31.36	1.47	2.41
1571.05	1521.05	6.98	30.75	30.93	1.37	2.43
1584.21	1534.21	6.93	30.78	30.41	1.35	2.40
1623.68	1573.68	6.83	30.74	29.48	1.30	2.39
1663.16	1613.16	6.76	30.90	28.37	1.25	2.39
1676.32	1626.32	6.70	30.97	28.01	1.24	2.39
1702.63	1652.63	6.67	30.92	27.27	1.22	2.37
1742.11	1692.11	6.61	31.00	26.47	1.20	2.38
1768.42	1718.42	6.63	31.24	26.03	1.19	2.38
1781.58	1731.58	6.59	31.22	25.77	1.19	2.37
1821.05	1771.05	6.59	30.92	25.12	1.21	2.36
1860.53	1810.53	6.68	30.65	24.63	1.25	2.37
1873.68	1823.68	6.67	30.61	24.43	1.27	2.35
1886.84	1836.84	6.74	30.60	24.19	1.29	2.33
1900.00	1850.00	6.79	30.64	24.07	1.31	2.31

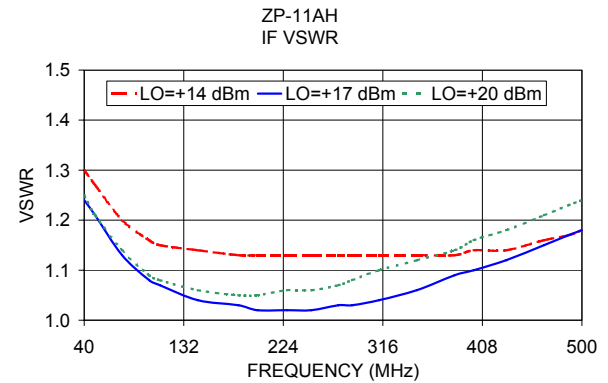
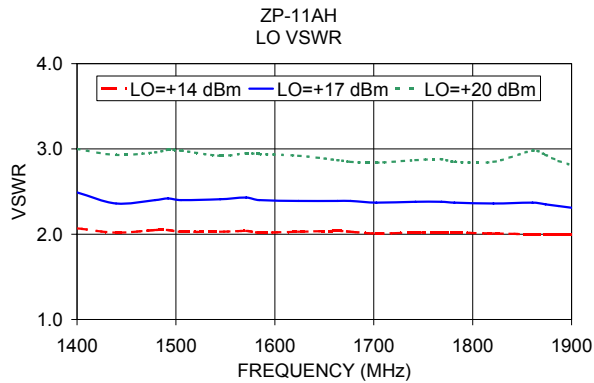
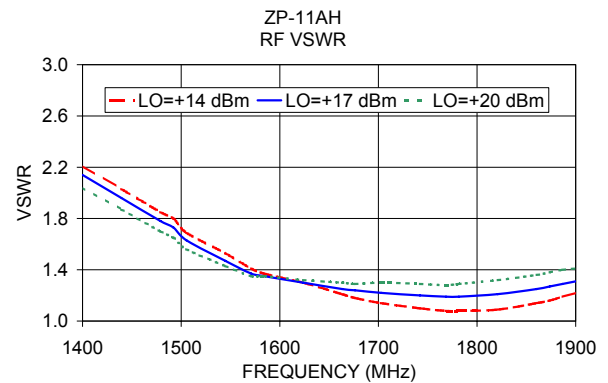
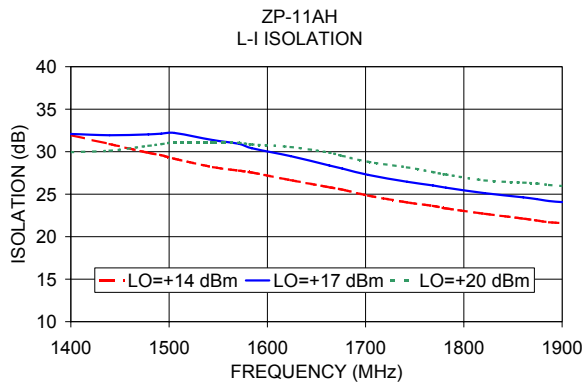
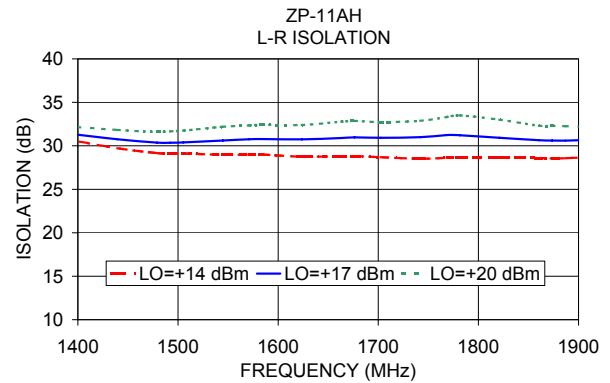
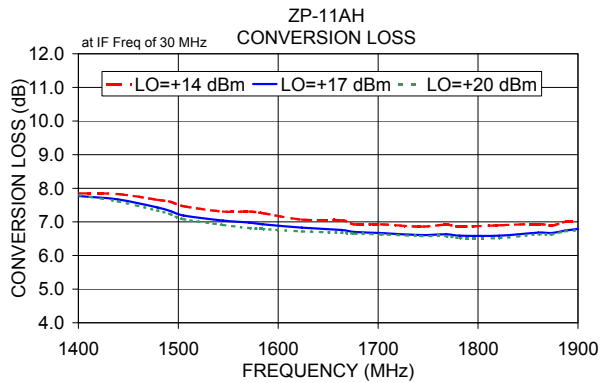
Electrical Schematic



Notes

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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