

Coaxial Frequency Mixer

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

ZP-11AH+ ZP-11AH



BNC version shown
CASE STYLE: GG60

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

Features

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

Applications

- UHF
- GPS
- instrumentation
- defense communication

Connectors	Model	Price	Qty.
BNC	ZP-11AH+	\$49.95 ea.	(1-9)
SMA	ZP-11AH-S(+)	\$54.95 ea.	(1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

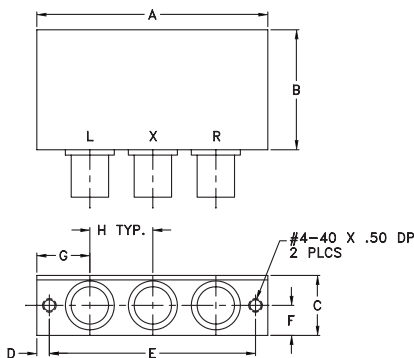
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Electrical Specifications

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

1 dB COMP: +14 dBm typ.

Outline Drawing



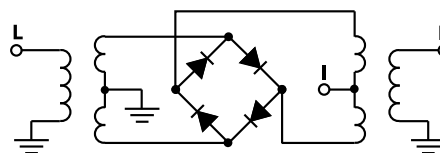
Outline Dimensions (inch/mm)

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

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



Mini-Circuits
ISO 9001 ISO 14001 AS 9100 CERTIFIED

For detailed performance specs & shopping online see web site

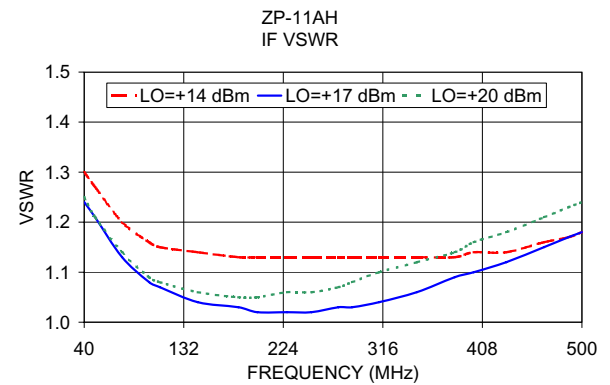
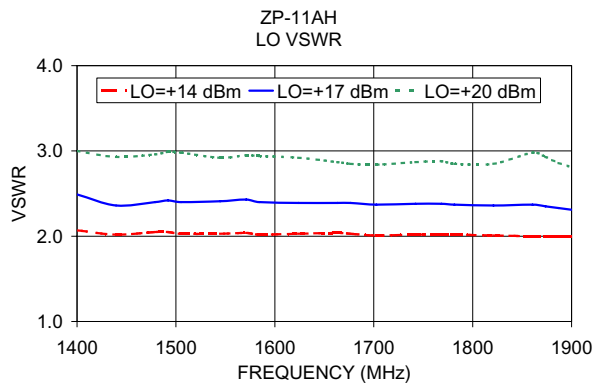
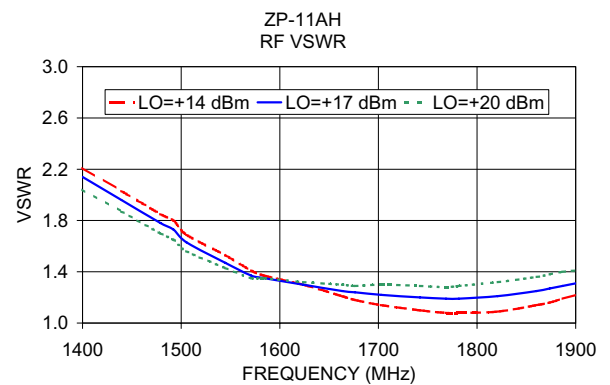
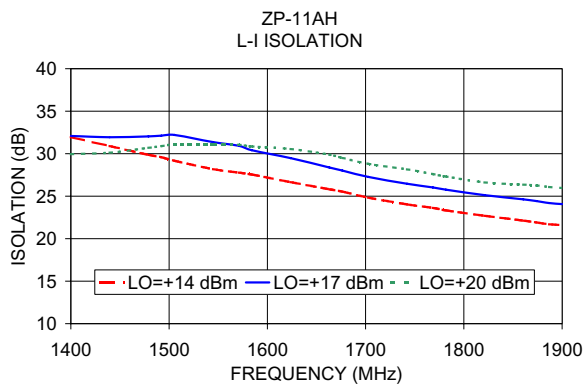
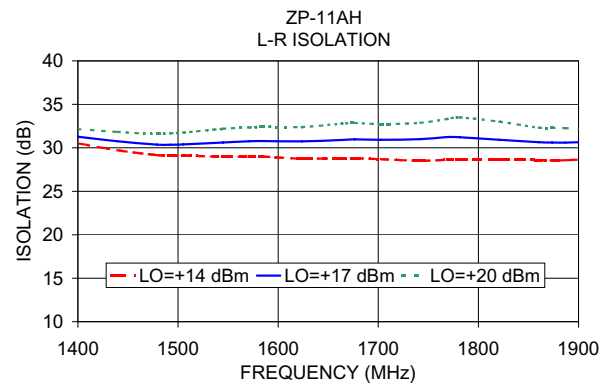
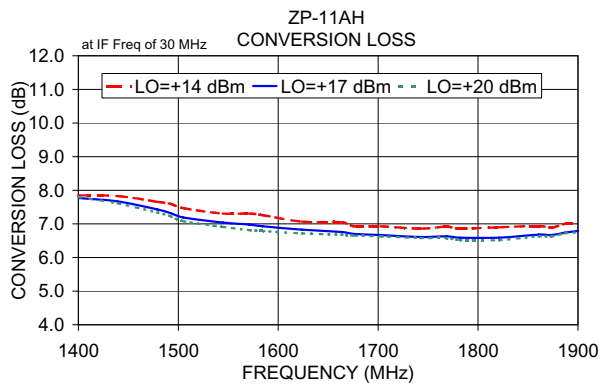
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Performance Charts

ZP-11AH+ ZP-11AH



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IF/RF MICROWAVE COMPONENTS

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