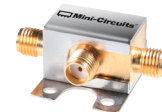


Frequency Mixer WIDE BAND

ZX05-14H+

Level 17 (LO Power +17 dBm) 3700 to 10000 MHz



Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	100mW

Permanent damage may occur if any of these limits are exceeded.

Coaxial Connections

LO	2
RF	3
IF	1

Features

- wide bandwidth, 3700 to 10000 MHz
- low conversion loss, 7.0 dB typ.
- high L-R isolation, 38 dB typ.
- excellent IF BW, DC to 4000 MHz
- rugged construction
- small size
- useable as up and down converter
- protected by US patents 6,790,049; 7,027,795

Applications

- satellite up and down converters
- defense radar and communications
- line of sight links
- federal fixed service
- WIFI
- blue tooth
- VSAT
- ISM

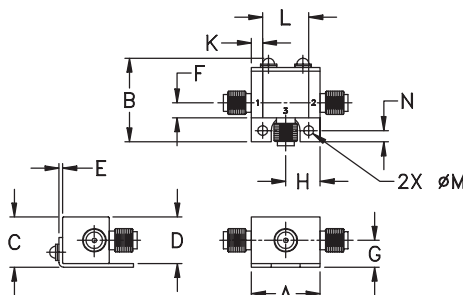
CASE STYLE: FL905

Connectors	Model
SMA	ZX05-14H-S+

+RoHS Compliant

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

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
.74	.90	.54	.50	.04	.16	.29
18.80	22.86	13.72	12.70	1.02	4.06	7.37
H	J	K	L	M	N	wt
.37	--	.122	.496	.106	.122	grams
9.40	--	3.10	12.60	2.69	3.10	20.0

Electrical Specifications

FREQUENCY (MHz)	CONVERSION LOSS* (dB)	LO-RF ISOLATION (dB)		LO-IF ISOLATION (dB)		IP3 at center band (dBm)			
		Typ.	Min.	Typ.	Min.				
LO/RF f _L -f _u	IF	Typ.	σ	Max.	Typ.	Min.	Typ.		
3700-10000	DC-4000	7.0	0.3	8.8	38	33	15	10	25
3700-6200		7.0	0.3	10.8	35	27	15	9	23

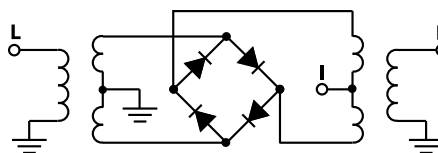
1 dB COMPRL.: +14 dBm typ.

* Conversion loss at 30 MHz IF. σ is a measure of repeatability from unit to unit.

Typical Performance Data

Frequency (MHz)	Conversion Loss (dB)	Isolation L-R (dB)	Isolation L-I (dB)	VSWR RF Port (:1)	VSWR LO Port (:1)	
						LO +17dBm
RF	LO	+17dBm	+17dBm	+17dBm	+17dBm	
3700.10	3730.10	7.15	54.35	17.19	3.40	5.89
4000.10	4030.10	6.64	51.07	17.10	3.26	3.62
4300.10	4330.10	6.55	44.36	16.70	3.16	2.53
4500.10	4530.10	6.29	44.22	16.27	2.79	1.97
4800.10	4830.10	6.37	41.48	15.67	3.13	1.59
5000.10	5030.10	6.66	43.44	15.45	3.56	1.36
5300.10	5330.10	7.19	38.72	14.99	3.94	1.18
6000.10	6030.10	6.62	40.76	15.06	3.54	2.09
6300.10	6330.10	6.52	38.74	15.13	2.92	2.64
6500.10	6530.10	6.43	40.37	15.14	2.61	2.94
6800.10	6830.10	6.12	39.20	14.91	2.39	3.41
7000.10	7030.10	6.16	39.00	14.83	2.10	3.81
7300.10	7330.10	6.26	41.10	14.79	1.76	4.30
7500.10	7530.10	6.33	41.25	15.36	1.75	4.40
8000.10	8030.10	6.17	36.15	14.44	1.79	3.55
8300.10	8330.10	6.24	36.45	13.10	1.99	2.78
8500.10	8530.10	6.24	35.49	12.80	2.40	2.26
9000.10	9030.10	6.88	44.93	14.99	3.00	1.70
9500.10	9530.10	8.46	41.50	18.44	3.35	1.75
10000.10	10030.10	9.31	35.61	20.72	4.63	2.01

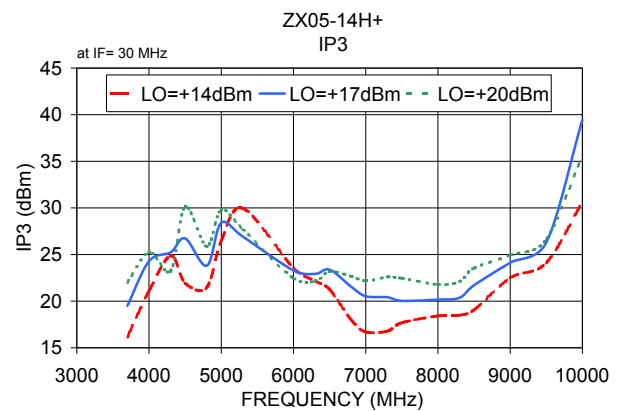
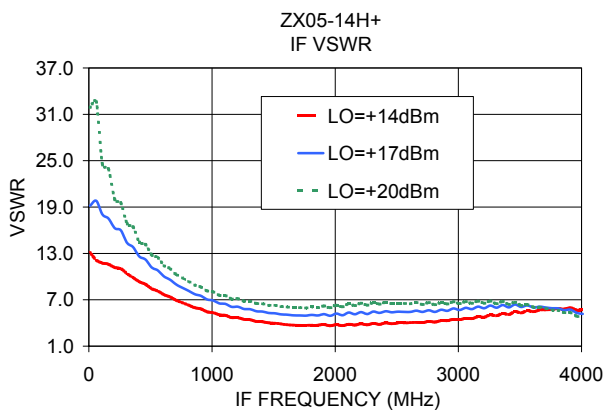
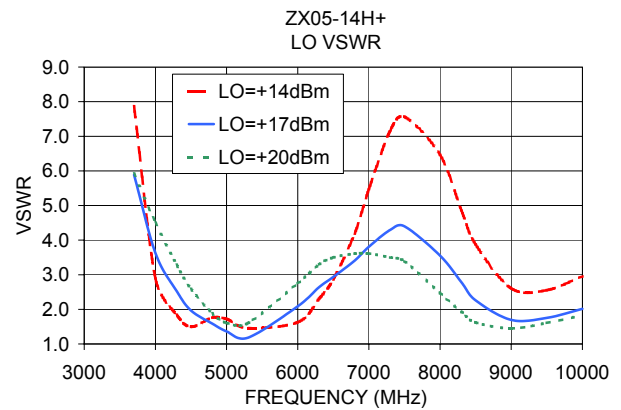
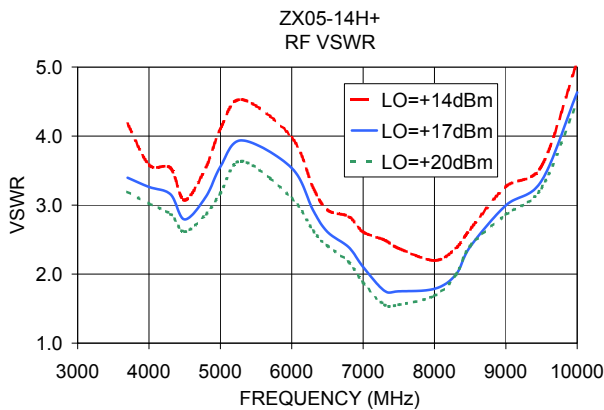
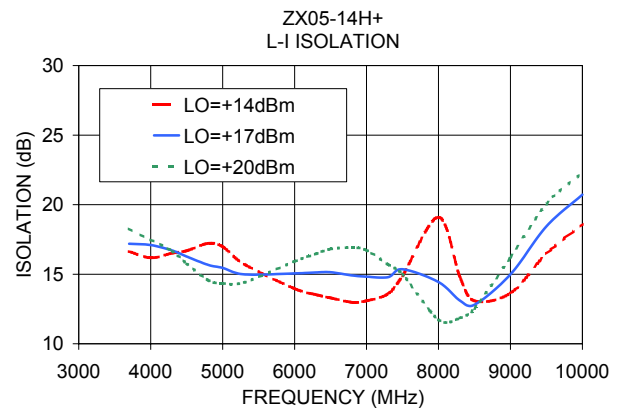
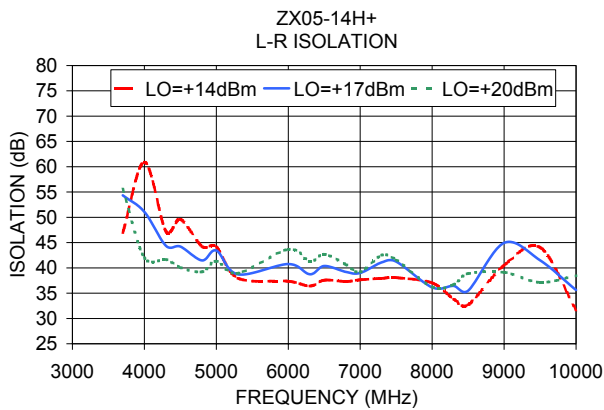
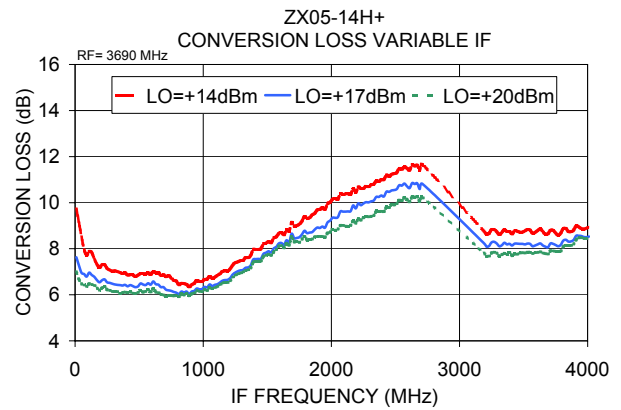
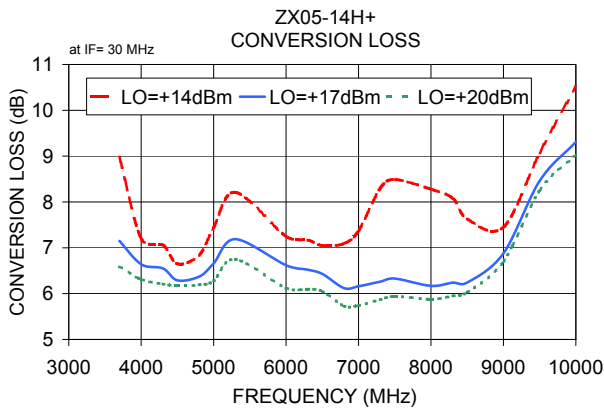
Electrical Schematic



Notes

- 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.
- 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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