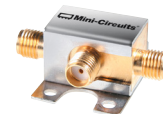


# Frequency Mixer WIDE BAND

## ZX05-762H+

### Level 17 (LO Power +17 dBm) 2300 to 7600 MHz



#### Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	200mW

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

#### Coaxial Connections

LO	2
RF	3
IF	1

#### Features

- wide bandwidth, 2300 to 7600 MHz
- low conversion loss, 6.0 dB typ.
- excellent IF BW, DC to 3000 MHz
- rugged construction
- small size
- useable as up and down converter
- protected by US patents, 6,790,049 and 7,027,795

#### Applications

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

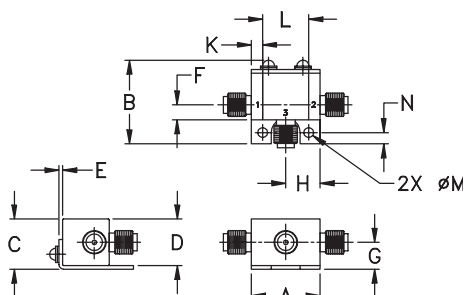
CASE STYLE: FL905

Connectors Model  
SMA ZX05-762H-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 (dBm)
		Typ.	Min.	Typ.	Min.	
<i>LO/RF</i> <i>I<sub>c</sub>-I<sub>u</sub></i>	<i>IF</i>	<i>Typ.</i>	<i>σ</i>	<i>Max.</i>		
2300-7600	DC-3000					
2300-3200		6.0	0.1	8.5	35	29
3200-3700		6.2	0.1	7.6	31	28
3700-4200		6.1	0.2	7.0	32	27
4200-7600		5.0	0.2	8.5	23	16

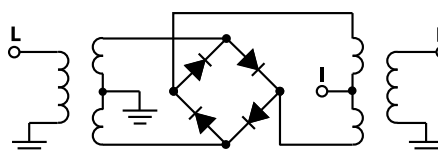
1 dB COMP. : +14 dBm typ.

\* Conversion loss at 30 MHz IF.  $\sigma$  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)
RF	LO	LO +17dBm	LO +17dBm	LO +17dBm	LO +17dBm
2300.10	2330.10	7.47	34.31	17.54	2.68
2600.10	2630.10	6.82	39.47	20.43	2.94
2900.10	2930.10	6.75	33.58	21.67	3.11
3200.10	3230.10	6.49	32.46	24.54	3.09
3500.10	3530.10	6.21	33.56	26.87	2.52
3700.10	3730.10	5.85	33.07	28.77	2.25
3800.10	3830.10	5.89	33.22	30.06	2.16
4100.10	4130.10	5.81	33.12	33.91	2.19
4200.10	4230.10	5.94	31.59	31.99	2.46
4500.10	4530.10	5.72	28.85	21.16	2.33
4800.10	4830.10	6.45	28.63	15.74	2.53
5100.10	5130.10	7.13	27.21	15.07	3.07
5400.10	5430.10	6.72	25.69	16.29	3.12
5700.10	5730.10	6.55	24.48	18.39	2.88
6100.10	6130.10	6.25	22.49	22.26	2.58
6400.10	6430.10	6.24	21.83	25.20	2.54
6700.10	6730.10	6.18	21.23	25.55	2.25
7000.10	7030.10	6.16	19.80	27.90	2.10
7300.10	7330.10	6.10	19.89	22.56	1.80
7600.10	7630.10	7.48	19.04	17.79	2.57

#### Electrical Schematic



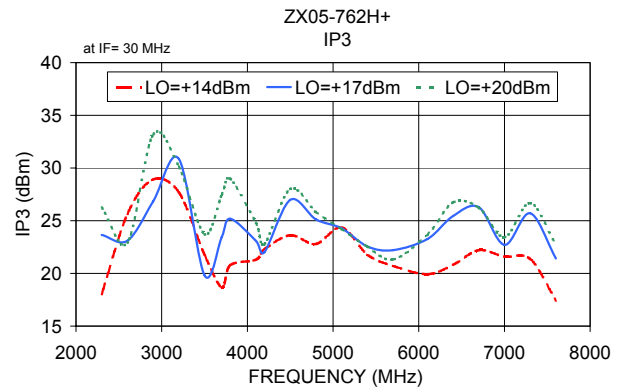
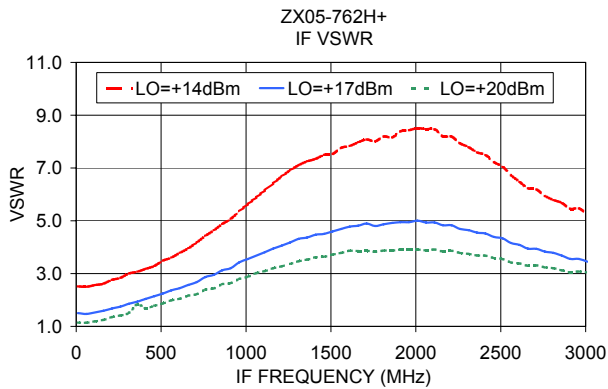
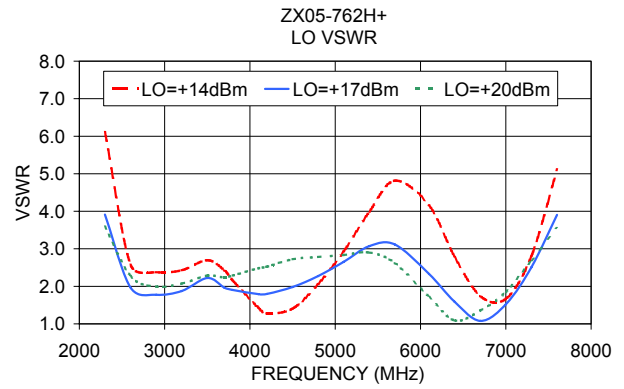
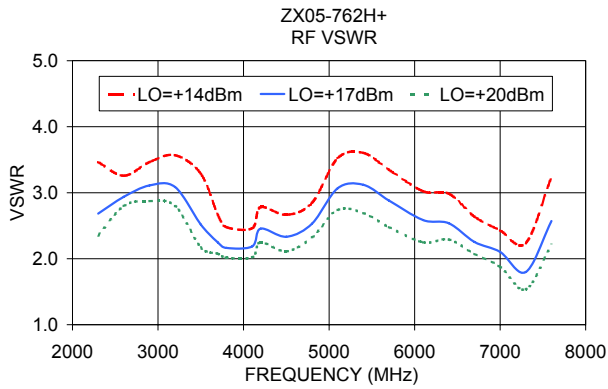
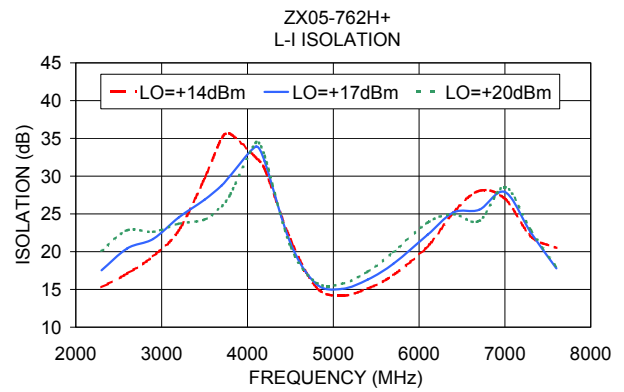
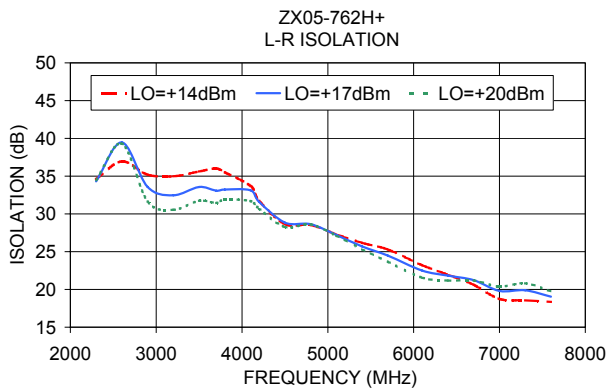
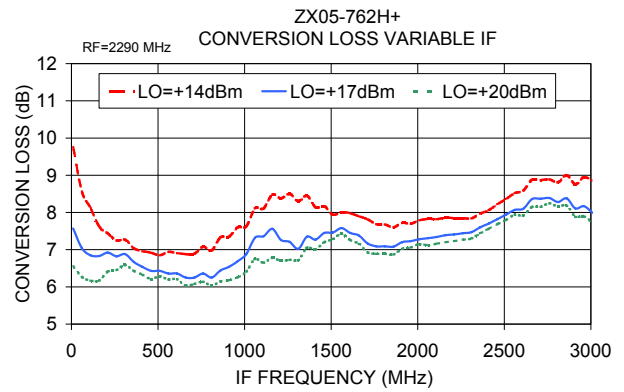
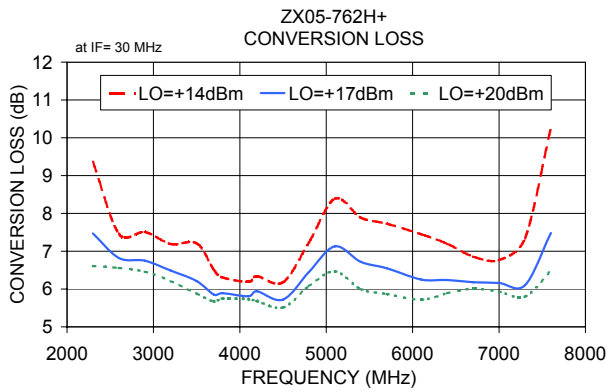
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