

Frequency Mixer WIDE BAND

ZX05-762H-S+

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

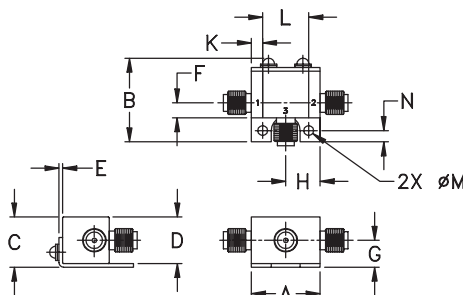
Maximum Ratings

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

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

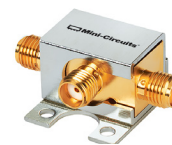
H	J	K	L	M	N	wt
.37	--	.122	.496	.106	.122	grams
9.40	--	3.10	12.60	2.69	3.10	20.0

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



Generic photo used for illustration purposes only

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

Electrical Specifications

FREQUENCY (MHz)		CONVERSION LOSS* (dB)			LO-RF ISOLATION (dB)		LO-IF ISOLATION (dB)		IP3 (dBm)
$f_{LO/RF}$	f_U	Typ.	σ	Max.	Typ.	Min.	Typ.	Min.	Typ.
DC-3000									
2300-7600									
2300-3200		6.0	0.1	8.5	35	29	21	14	25
3200-3700		6.2	0.1	7.6	31	28	27	21	24
3700-4200		6.1	0.2	7.0	32	27	32	23	25
4200-7600		5.0	0.2	8.5	23	16	18	11	23

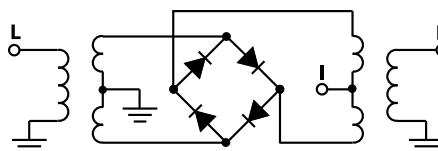
1 dB COMPR.: +14 dBm typ.

* 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)
RF	LO	LO +17dBm	LO +17dBm	LO +17dBm	LO +17dBm	LO +17dBm
2300.10	2330.10	7.47	34.31	17.54	2.68	3.91
2600.10	2630.10	6.82	39.47	20.43	2.94	1.97
2900.10	2930.10	6.75	33.58	21.67	3.11	1.78
3200.10	3230.10	6.49	32.46	24.54	3.09	1.88
3500.10	3530.10	6.21	33.56	26.87	2.52	2.22
3700.10	3730.10	5.85	33.07	28.77	2.25	1.96
3800.10	3830.10	5.89	33.22	30.06	2.16	1.90
4100.10	4130.10	5.81	33.12	33.91	2.19	1.79
4200.10	4230.10	5.94	31.59	31.99	2.46	1.80
4500.10	4530.10	5.72	28.85	21.16	2.33	1.98
4800.10	4830.10	6.45	28.63	15.74	2.53	2.27
5100.10	5130.10	7.13	27.21	15.07	3.07	2.65
5400.10	5430.10	6.72	25.69	16.29	3.12	3.07
5700.10	5730.10	6.55	24.48	18.39	2.88	3.12
6100.10	6130.10	6.25	22.49	22.26	2.58	2.33
6400.10	6430.10	6.24	21.83	25.20	2.54	1.59
6700.10	6730.10	6.18	21.23	25.55	2.25	1.08
7000.10	7030.10	6.16	19.80	27.90	2.10	1.52
7300.10	7330.10	6.10	19.89	22.56	1.80	2.51
7600.10	7630.10	7.48	19.04	17.79	2.57	3.90

Electrical Schematic



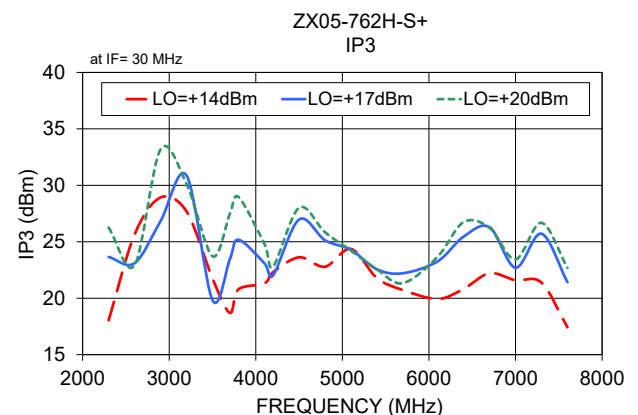
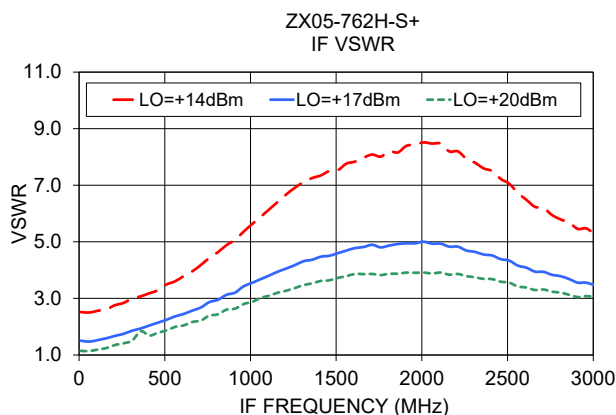
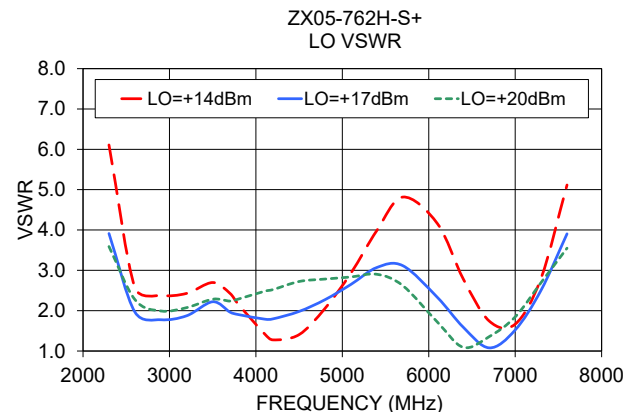
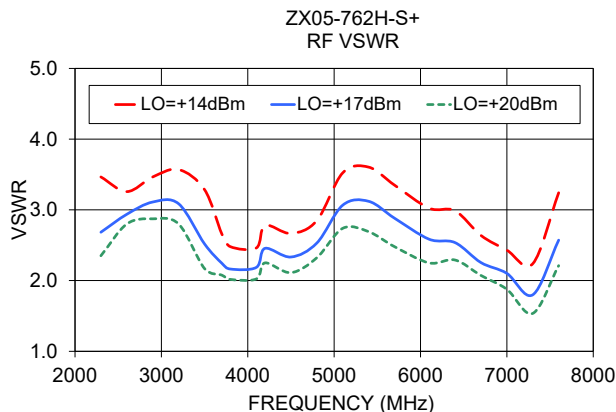
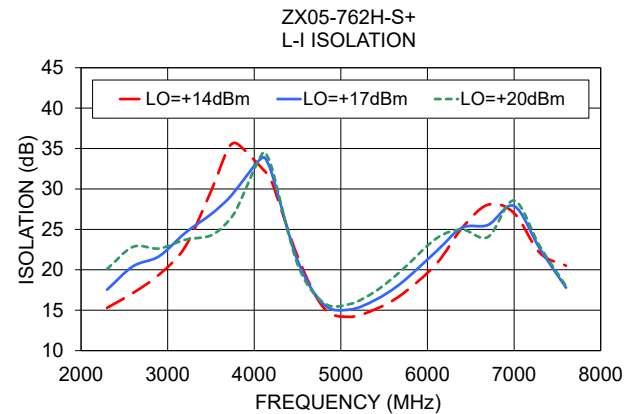
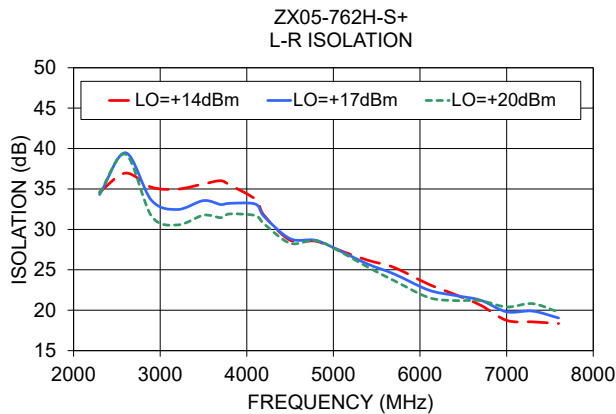
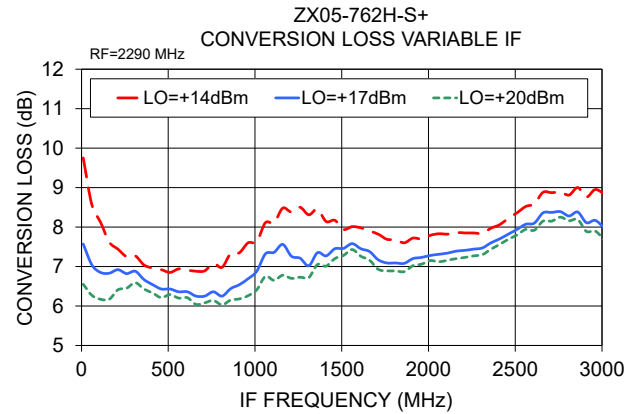
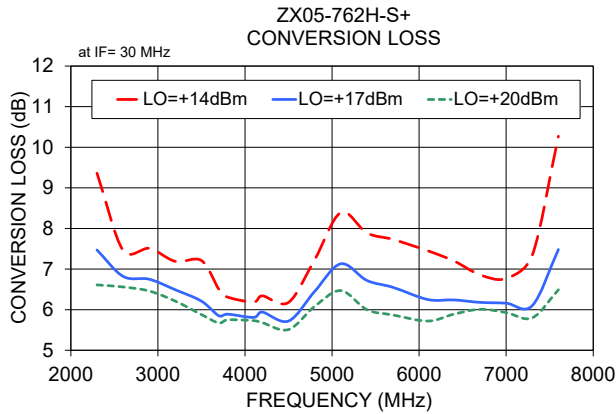
Notes

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Performance Charts

ZX05-762H-S+



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