

Frequency Mixer WIDE BAND

ZX05-762H+

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



CASE STYLE: FL905

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

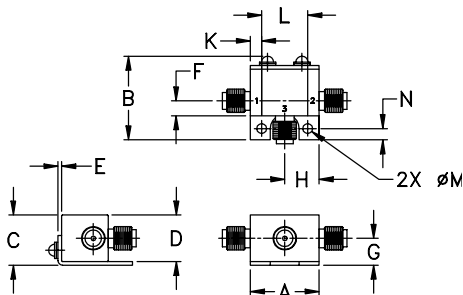
- satellite up and down converters
- defense radar and communications
- line of sight links
- WIFI
- blue tooth
- VSAT
- ISM

Connectors	Model	Price	Qty.
SMA	ZX05-762H-S+	\$47.95	(1-24)

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

The +Suffix has been added in order to identify 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>f_i-f_o</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
					21	14
					27	21
					32	23
					18	11
						25
						24
						25
						23

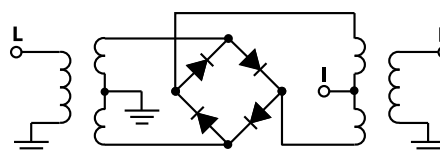
1 dB COMPR.: +14 dBm typ.

* 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)	
						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



For detailed performance specs & shopping online see web site

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