

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

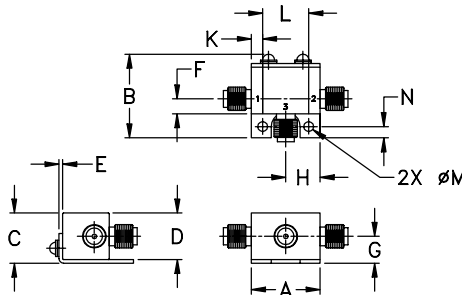
CASE STYLE: FL905

Connectors	Model	Price	Qty.
SMA	ZX05-14H-S+	\$48.95	(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 at center band (dBm)			
		Typ.	Min.	Typ.	Min.				
3700-10000	DC-4000	Typ.	σ	Max.	Typ.	Min.	Typ.		
3700-6200		7.0	0.3	8.8	38	33	15	10	25
6200-10000		7.0	0.3	10.8	35	27	15	9	23

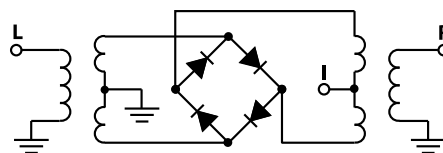
1 dB COMPR.: +14 dBm typ.

* 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
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



Mini-Circuits
ISO 9001 ISO 14001 AS 9100 CERTIFIED

For detailed performance specs & shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicircuits.com

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