

# Frequency Mixer WIDE BAND

## ZX05-14+

### Level 7 (LO Power +7 dBm) 3700 to 10000 MHz



CASE STYLE: FL905

Connectors	Model	Price	Qty.
SMA	ZX05-14-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.

### Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	50mW

### Coaxial Connections

LO	2
RF	3
IF	1

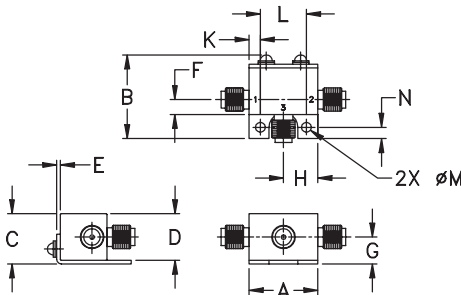
### Features

- wide bandwidth, 3700 to 10000 MHz
- low conversion loss, 6.7 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

### 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 $f_c - f_u$	IF	Typ.	$\sigma$	Max.	Typ.	Min.	Typ.		
3700-10000	DC-4000								
3700-6200		6.7	0.3	8.0	40	33	16	10	14
6200-10000		6.7	0.3	10	35	25	17	9	11

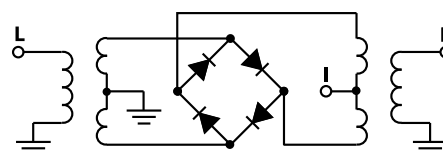
1 dB COMPR.: +1 dBm typ.

\* 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)	
						LO +7dBm
RF	LO	LO +7dBm	LO +7dBm	LO +7dBm	LO +7dBm	
3700.10	3730.10	6.58	51.26	20.04	2.93	7.34
4100.10	4130.10	6.38	40.67	18.99	2.87	4.92
4500.10	4530.10	6.22	40.61	15.96	2.46	3.13
4900.10	4930.10	6.05	38.79	14.00	2.37	2.09
5300.10	5330.10	6.46	40.71	12.81	3.15	1.49
5700.10	5730.10	6.57	37.62	13.21	3.25	1.89
6100.10	6130.10	6.30	40.74	14.07	2.93	2.61
6200.10	6230.10	6.35	39.60	14.24	2.84	2.82
6600.10	6630.10	6.30	38.69	14.80	2.67	3.44
7000.10	7030.10	6.34	37.07	15.30	2.28	3.48
7400.10	7430.10	6.22	39.52	14.92	2.07	3.29
7800.10	7830.10	6.02	36.84	13.50	2.06	2.66
8200.10	8230.10	6.29	31.74	11.66	2.17	1.74
8600.10	8630.10	6.54	38.46	14.46	2.47	1.46
9000.10	9030.10	7.07	37.71	20.29	3.00	1.81
9400.10	9430.10	7.75	30.76	22.38	3.66	2.18
9700.10	9730.10	7.85	28.88	19.34	4.14	2.36
9800.10	9830.10	8.00	28.40	18.54	4.22	2.35
9900.10	9930.10	8.09	28.25	18.00	4.38	2.32
10000.10	10030.10	8.15	28.31	17.54	4.43	2.26

### Electrical Schematic



**Mini-Circuits®**  
ISO 9001 ISO 14001 AS9100 CERTIFIED

minicircuits.com

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: [www.minicircuits.com](http://www.minicircuits.com)

RF/IF MICROWAVE COMPONENTS

REV. OR  
M111660  
ZX05-14+  
ED-12902/1  
DJ/TD/QL  
081021  
Page 1 of 2

