

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

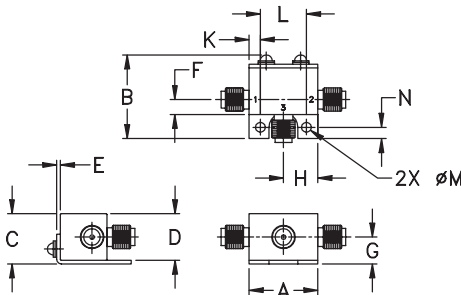
Features

- 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.	σ	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

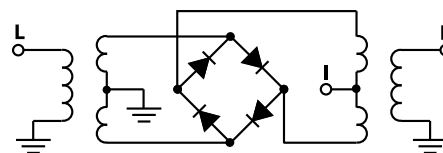
1 dB COMPR.: +1 dBm typ.

* Conversion loss at 30 MHz IF. 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 +7dBm	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



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RF/IF MICROWAVE COMPONENTS

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