

Coaxial Frequency Mixer

ZX05-11X+ ZX05-11X

Level 7 (LO Power +7 dBm) 10 to 2000 MHz

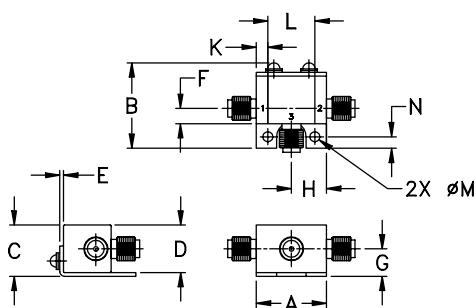
Maximum Ratings

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

Coaxial Connections

LO	1
RF	2
IF	3

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

- rugged construction
- small size
- low conversion loss
- high L-R isolation
- protected by US Patents 6,133,525 and 6,790,049

Applications

- cellular
- PCS
- instrumentation
- satellite communication



CASE STYLE: FL905

Connectors	Model	Price	Qty.
SMA	ZX05-11X-S(+)	\$37.95 ea.	(1-24)

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

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Electrical Specifications (T_{AMB}=25°C)

FREQUENCY (MHz)		CONVERSION LOSS (dB)				LO-RF ISOLATION (dB)						LO-IF ISOLATION (dB)						IP3 at center band (dBm)
LO/RF f _L -f _U	IF	Mid-Band m		Total Range Max.		L		M		U		L		M		U		
		$\bar{X}$	σ	Max.		Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	
10-2000	5-1000	7.1	0.1	8.2	9.8	62	45	36	20	27	18	60	45	37	20	38	20	9

1 dB COMP.: +1 dBm typ.

L = low range [f_L to 10 f_L]
m = mid band [2f_L to f_U/2]

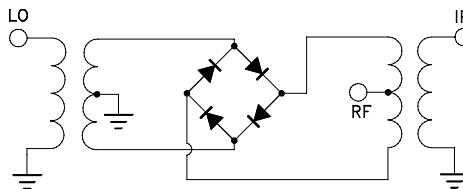
M = mid range [10 f_L to f_U/2]

U = upper range [f_U/2 to f_U]

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
10.10	40.10	6.84	74.97	78.47	1.03	2.59
50.10	80.10	6.84	61.40	64.93	1.03	2.58
100.10	130.10	6.91	55.74	58.48	1.04	2.52
206.16	236.16	6.98	51.92	52.08	1.12	2.54
318.28	288.28	7.08	48.10	48.28	1.20	2.58
430.40	400.40	7.13	44.07	45.47	1.38	2.53
542.52	512.52	7.20	40.20	43.42	1.60	2.54
654.65	624.65	7.32	38.92	41.99	1.84	2.66
766.77	736.77	7.40	35.90	39.98	2.01	2.62
878.89	848.89	7.26	35.13	37.69	1.99	2.63
1000.10	970.10	7.11	33.55	36.59	1.90	2.90
1103.13	1073.13	7.02	30.72	35.49	1.80	2.94
1215.25	1185.25	7.15	29.08	34.26	1.81	2.84
1327.37	1297.37	7.25	29.09	33.25	1.67	2.90
1439.49	1409.49	7.22	31.00	33.11	1.43	2.90
1551.62	1521.62	7.31	33.01	33.10	1.21	2.64
1663.74	1633.74	7.52	30.60	34.88	1.05	2.63
1775.86	1745.86	7.90	27.23	36.31	1.12	2.57
1887.98	1857.98	8.28	25.73	34.43	1.37	2.53
2000.10	1970.10	8.81	26.34	34.73	1.68	3.08

Electrical Schematic



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RF/IF MICROWAVE COMPONENTS

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Performance Charts

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