

Frequency Mixer

ZX05-20H

Level 17 (LO Power +17 dBm) 1500 to 2000 MHz

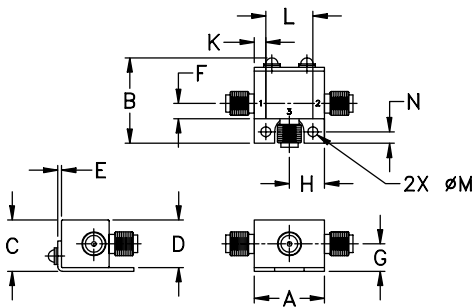
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	200mW
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

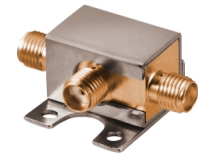
H	J	K	L	M	N	wt
.37	--	.122	.496	.106	.122	grams
9.40	--	3.10	12.60	2.69	3.10	20.0

Features

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

Applications

- cellular
- PCS
- instrumentation
- satellite communication



CASE STYLE: FL905

Connectors	Model	Price	Qty.
SMA	ZX05-20H-S	\$41.95 ea.	(1-24)

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	IF	Mid-Band m		Total Range	Typ.	Min.	Typ.	Min.	
f _L -f _U		$\overline{X}$	σ	Max.					
1500-2000	DC-300	5.2	0.2	7.8	31	22	34	20	22

1 dB COMP.: +14 dBm typ.

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 +17dBm	LO +17dBm	LO +17dBm	LO +17dBm	LO +17dBm
1500.10	1530.10	5.41	29.73	34.08	1.20	2.52
1525.74	1555.74	5.42	29.61	35.32	1.15	2.53
1551.38	1521.38	5.45	29.87	36.63	1.14	2.26
1577.02	1547.02	5.43	30.16	38.26	1.10	2.36
1602.66	1572.66	5.34	30.24	39.88	1.08	2.50
1628.31	1598.31	5.33	30.53	40.20	1.06	2.17
1653.95	1623.95	5.39	31.16	40.57	1.05	2.07
1679.59	1649.59	5.34	31.64	40.80	1.07	2.29
1705.23	1675.23	5.34	31.67	40.68	1.09	2.24
1730.87	1700.87	5.30	32.00	39.89	1.11	2.02
1756.51	1726.51	5.31	32.45	39.41	1.13	2.07
1794.97	1764.97	5.27	33.02	39.14	1.15	2.12
1820.61	1790.61	5.27	33.08	39.21	1.15	1.86
1846.25	1816.25	5.30	32.43	38.69	1.16	1.91
1871.90	1841.90	5.30	31.30	37.77	1.18	1.97
1897.54	1867.54	5.27	30.34	36.83	1.20	1.87
1923.18	1893.18	5.35	29.97	36.56	1.21	1.80
1948.82	1918.82	5.39	29.89	36.36	1.22	1.89
1974.46	1944.46	5.38	29.89	35.83	1.23	1.84
2000.10	1970.10	5.32	30.01	35.31	1.24	1.79

Electrical Schematic

