

Coaxial Frequency Mixer

ZX05-20H+

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

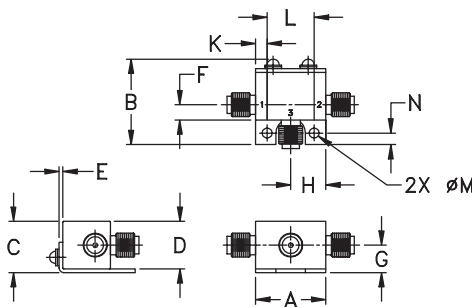
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	200mW
IF Current	40mA
Permanent damage may occur if any of these limits are exceeded.	

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
SMA	ZX05-20H-S+

+RoHS Compliant

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

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

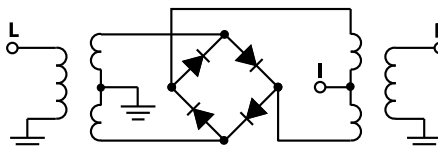
FREQUENCY (MHz)		CONVERSION LOSS (dB)			LO-RF ISOLATION (dB)		LO-IF ISOLATION (dB)		IP3 at center band (dBm)
LO/RF	IF	$\bar{X}$	σ	Max.	Typ.	Min.	Typ.	Min.	
$f_L - f_U$	DC-300	5.2	0.2	7.8	31	22	34	20	22
1500-2000									

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



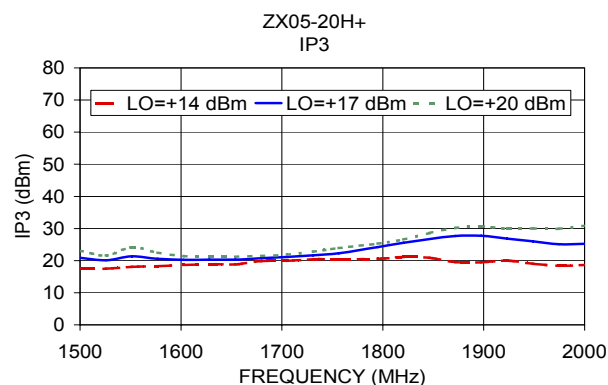
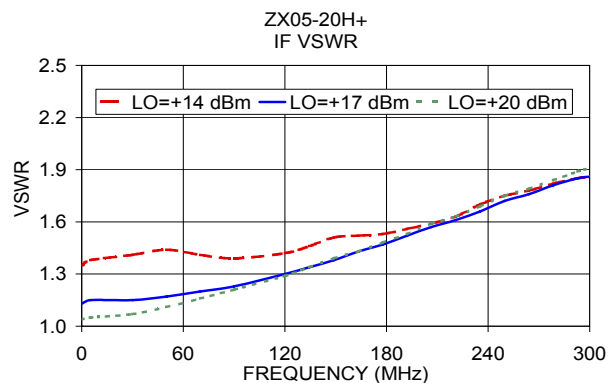
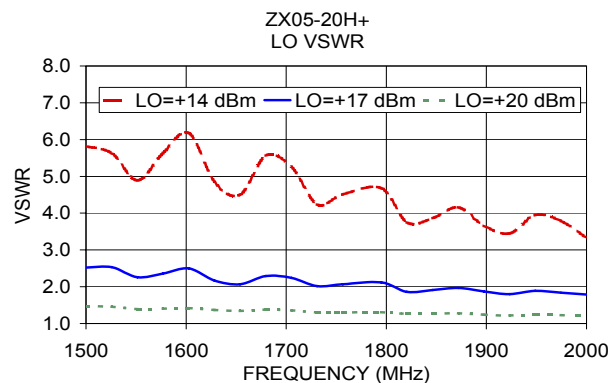
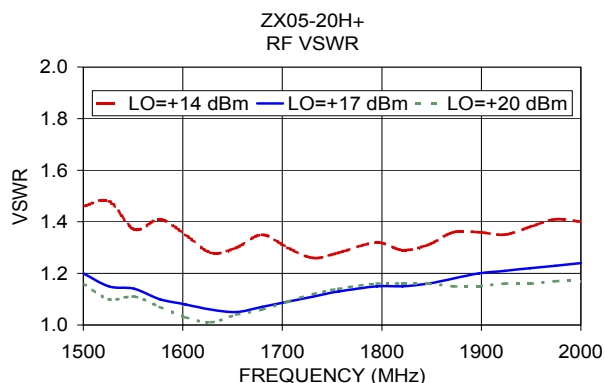
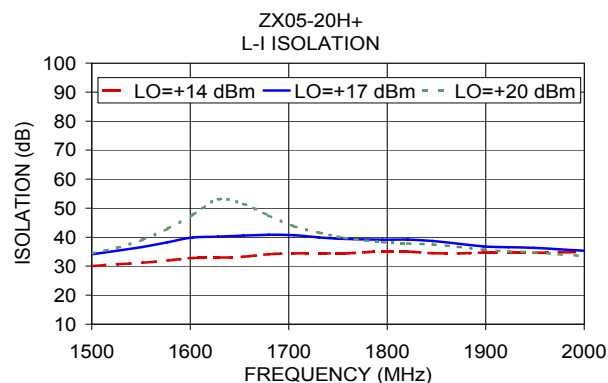
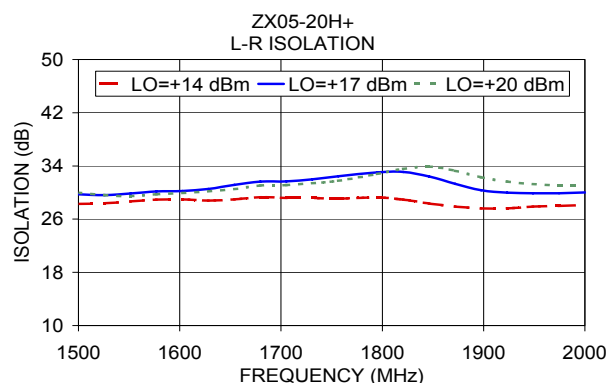
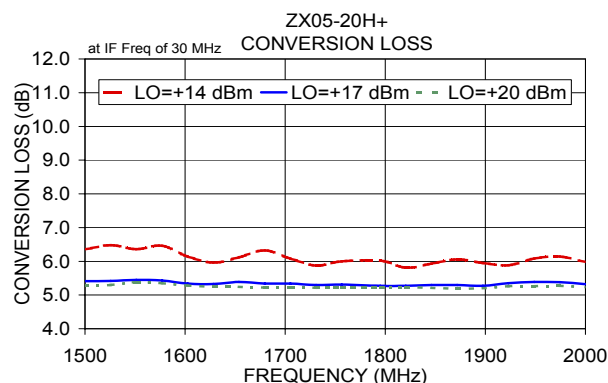
Notes

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www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

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