

Coaxial Frequency Mixer

Level 10 (LO Power +10 dBm) 300 to 2400 MHz

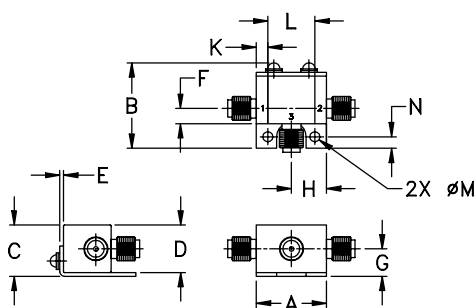
Maximum Ratings

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 6,790,049 & 7,027,795

Applications

- cellular
- PCS
- instrumentation
- satellite communication

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

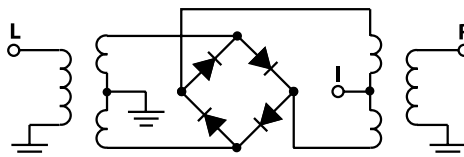
FREQUENCY (MHz)	CONVERSION LOSS (dB)	LO-RF ISOLATION (dB)	LO-IF ISOLATION (dB)	IP3 at center band (dBm)
LO/RF f _L -f _U	Mid-Band m X̄ σ Max.	Typ. Min.	Typ. Min.	Typ.
300-2400 DC-700	6.5 0.1 8.9	40 25	30 15	13

1 dB COMP.: +5 dBm typ.
m= mid band [2f_L to f_U/2]

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 +10dBm	LO +10dBm	LO +10dBm	LO +10dBm	LO +10dBm
300.10	330.11	5.70	53.04	22.52	2.14	15.23
407.79	437.80	5.14	42.05	23.01	1.71	3.78
515.49	545.50	6.04	39.80	25.36	2.99	1.99
623.18	653.19	5.94	59.61	26.76	3.24	1.72
730.87	760.88	5.61	41.90	25.22	2.83	2.22
838.56	868.57	6.00	40.08	27.63	3.36	2.99
1000.10	1030.11	6.03	41.25	22.89	3.20	3.07
1107.79	1137.80	6.16	41.82	25.12	3.28	3.27
1215.49	1245.50	6.05	42.41	29.02	3.01	3.72
1323.18	1353.19	6.48	42.37	31.66	2.92	3.62
1430.87	1460.88	5.53	41.58	31.62	2.07	2.81
1538.56	1568.57	4.92	39.23	29.26	1.12	1.86
1700.10	1730.11	5.02	34.19	28.15	1.14	1.84
1807.79	1837.80	5.33	35.50	25.13	1.43	1.77
1915.49	1945.50	5.45	33.18	24.10	1.53	2.14
2023.18	2053.19	5.80	32.63	24.63	2.05	2.38
2130.87	2160.88	6.86	33.32	29.00	2.74	2.41
2346.25	2376.26	5.93	36.33	23.52	1.98	3.05
2400.10	2370.09	6.03	34.46	24.94	1.98	3.47

Electrical Schematic



CASE STYLE: FL905

Connectors	Model	Price	Qty.
SMA	ZX05-C24LH-S(+)	\$38.95 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.

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RF/IF MICROWAVE COMPONENTS

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Performance Charts

ZX05-C24LH+ ZX05-C24LH

