

Frequency Mixer

ZX05-C42LH

Level 10 (LO Power +10 dBm) 1000 to 4200 MHz

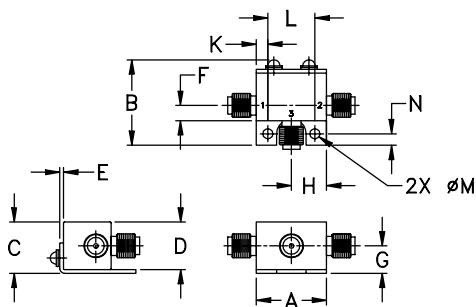
Maximum Ratings

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)

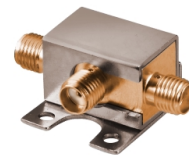
A	B	C	D	E	F	G
.74	.90	.54	.50	.04	.16	.29
18.80	22.86	13.72	12.70	1.02	4.06	7.37
H	J	K	L	M	N	wt
.37	--	.122	.496	.106	.122	grams
9.40	--	3.10	12.60	2.69	3.10	20.0

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



CASE STYLE: FL905

Connectors	Model	Price	Qty.
SMA	ZX05-C42LH-S	\$38.95 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		Total Range Max.	Typ. Min.		Typ. Min.		Typ.		
f _L -f _U												
1000-4200	DC-1500		6.0	0.1	8.9	38	23	20	11	12		

1 dB COMP.: +5 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 +10dBm	LO +10dBm	LO +10dBm	LO +10dBm	LO +10dBm
1000.10	1030.11	6.03	34.30	21.03	2.05	4.82
1164.20	1194.21	6.07	38.94	23.53	2.79	3.40
1328.31	1358.32	5.80	41.49	24.19	2.70	2.70
1492.41	1522.42	5.62	37.25	22.47	2.56	2.56
1656.51	1686.52	6.01	34.61	23.83	2.63	2.77
1820.61	1850.62	5.78	36.80	22.55	2.38	2.88
1984.72	2014.73	5.83	36.71	23.16	2.08	2.69
2148.82	2178.83	5.76	36.51	21.04	2.08	2.94
2312.92	2342.93	6.09	38.06	17.33	2.32	3.36
2477.02	2507.03	5.97	45.22	17.42	1.87	3.53
2641.13	2671.14	6.76	47.29	18.98	2.35	3.87
2805.23	2835.24	6.50	37.96	20.27	2.58	3.95
2969.33	2999.34	5.98	38.34	21.07	1.95	2.91
3133.43	3163.44	5.77	37.70	23.91	1.93	2.94
3297.54	3327.55	5.62	36.47	24.37	1.90	2.57
3543.69	3573.70	5.91	30.89	25.64	1.86	2.15
3707.79	3737.80	5.97	30.65	26.02	2.34	2.16
3871.90	3901.91	6.55	28.54	26.39	2.92	2.24
4036.00	4066.01	7.20	27.27	27.80	2.94	2.35
4200.10	4170.09	7.02	27.83	22.26	2.62	2.87

Electrical Schematic

