

Frequency Mixer

ZX05-C60

Level 7 (LO Power +7 dBm) 1600 to 6000 MHz

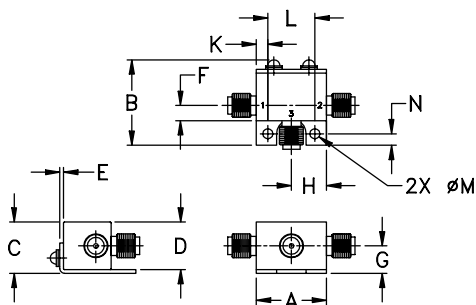
Maximum Ratings

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

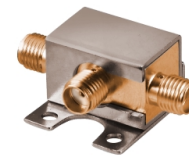
H	J	K	L	M	N	wt
.37	--	.122	.496	.106	.122	grams
9.40	--	3.10	12.60	2.69	3.10	20.0

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-C60-S	\$37.95 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)
		Typ.	Min.	Typ.	Min.	
1600-6000	DC-2000					
1600-4400	DC-2000	6.3	0.2	8.3		9
4400-6000	DC-2000	6.2	0.3	8.5		8

1 dB COMP.: +1 dBm typ.
Conversion loss specification at 30 MHz IF

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
1600.10	1630.11	6.47	32.80	18.08	2.24	4.87
1825.69	1855.70	5.69	40.54	20.58	2.44	2.90
2051.27	2081.28	5.51	34.62	20.26	2.50	2.41
2276.85	2306.86	5.25	31.37	19.11	2.20	2.03
2502.44	2532.45	5.28	31.45	17.13	1.94	1.84
2728.02	2758.03	5.49	33.47	17.11	1.91	2.05
2953.61	2983.62	6.00	33.21	17.20	2.93	2.31
3179.19	3209.20	6.36	33.41	16.92	2.73	2.49
3404.78	3434.79	6.76	35.02	16.07	2.69	2.72
3630.36	3660.37	6.83	34.77	14.78	2.89	3.16
3855.95	3885.96	6.87	34.23	14.48	2.74	3.95
4081.53	4111.54	7.12	33.97	15.29	2.74	3.79
4307.12	4337.13	6.75	35.18	17.32	2.85	4.45
4532.70	4562.71	6.18	33.14	18.24	2.71	4.84
4871.08	4901.09	6.24	30.72	20.71	2.92	2.16
5096.66	5126.67	5.53	25.15	23.32	1.73	1.14
5322.25	5352.26	5.72	22.88	25.07	2.00	1.54
5547.83	5577.84	5.40	22.00	22.46	1.69	2.03
5773.42	5803.43	5.85	21.83	14.93	1.43	3.10
5999.00	5968.99	6.36	21.97	13.20	1.90	6.57

Electrical Schematic

