

Coaxial

Frequency Mixer

ZX05-1+ ZX05-1

Level 7 (LO Power +7 dBm) 0.5 to 500 MHz



CASE STYLE: FL905

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

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

Connectors	Model	Price	Qty.
SMA	ZX05-1-S(+)	\$37.95 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.

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

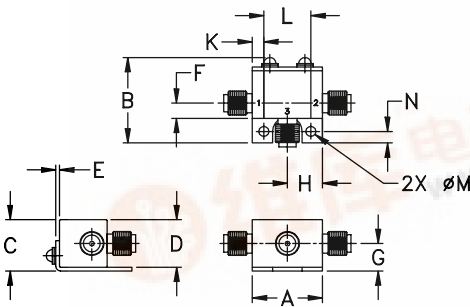
FREQUENCY (MHz)		CONVERSION LOSS (dB)				LO-RF ISOLATION (dB)						LO-IF ISOLATION (dB)						IP3 at center band (dBm)
LO/RF	IF	Mid-Band		Total	L		M		U		L		M		U			
f _L -f _U		\bar{X}	σ	Max.	Range Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.
0.5-500	DC-500	5.0	0.1	6.5	7.8	70	50	55	35	45	30	65	45	40	25	30	20	15

1 dB COMP.: +1 dBm typ.

L = low range [f_L to 10 f_L]
M = mid range [2 f_L to f_U/2]

M = mid range [10 f_L to f_U/2] U = upper range [f_U/2 to f_U]

Outline Drawing



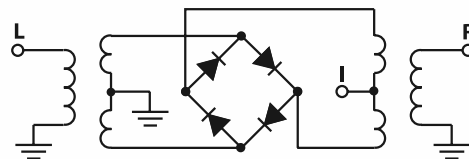
Outline Dimensions (inch/mm)

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

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
0.50	30.50	5.43	87.25	65.36	1.40	2.73
10.10	40.10	4.75	78.62	65.76	1.14	2.60
50.10	80.10	4.82	64.80	62.59	1.11	2.60
111.71	81.71	4.83	58.65	49.84	1.08	2.60
125.58	95.58	4.82	58.02	48.48	1.07	2.60
153.33	123.33	4.89	56.73	46.06	1.05	2.64
167.20	137.20	4.95	56.61	45.36	1.04	2.64
208.81	178.81	4.96	52.62	43.32	1.02	2.63
236.55	206.55	5.02	54.29	41.47	1.02	2.72
250.10	220.10	5.04	54.34	40.76	1.02	2.70
278.17	248.17	5.07	54.24	41.16	1.04	2.65
305.91	275.91	5.11	50.00	39.81	1.08	2.76
319.78	289.78	5.18	48.59	38.79	1.09	2.81
347.52	317.52	5.27	45.62	37.96	1.09	2.71
375.26	345.26	5.32	46.14	35.84	1.10	2.63
403.00	373.00	5.34	45.16	33.19	1.12	2.80
430.75	400.75	5.28	44.30	32.33	1.12	2.84
444.62	414.62	5.27	43.71	31.87	1.11	2.78
472.36	442.36	5.34	45.07	29.71	1.15	2.88
500.10	470.10	5.54	45.02	29.13	1.27	3.13

Electrical Schematic



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Performance Charts

