

Coaxial Frequency Mixer

ZX05-1MHW+

Level 13 (LO Power +13 dBm) 0.5 to 600 MHz



CASE STYLE: FL905

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

Features

- rugged construction
- small size
- low conversion loss
- high L-R isolation
- protected by US Patents 6,133,525 & 6,790,049

Applications

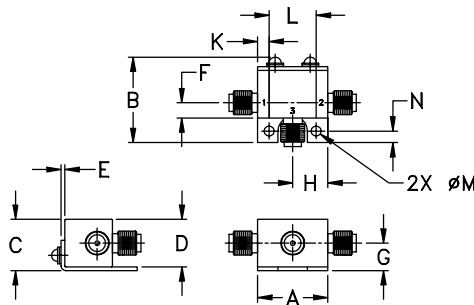
- cellular
- PCS
- instrumentation
- satellite communication

Connectors	Model	Price	Qty.
SMA	ZX05-1MHW-S+	\$39.95 ea.	(1-24)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

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

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 m	Total Range Max.	L	M	U	L	M	U	L	M	U					
0.5-600	DC-600	5.2	0.1	6.9	8.0	63	50	53	32	43	20	56	40	44	25	30	20	17

1 dB COMP.: +9 dBm typ.

L = low range [f_L to $10 f_L$]
m = mid band [$2 f_L$ to $f_U/2$]

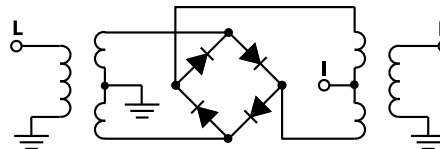
M = mid range [$10 f_L$ to $f_U/2$]

U = upper range [$f_U/2$ to f_U]

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 +13dBm	LO +13dBm	LO +13dBm	LO +13dBm	LO +13dBm
0.51	30.51	6.90	65.03	59.15	1.94	2.72
35.10	65.10	5.20	57.24	54.53	1.07	2.37
75.10	45.10	5.20	51.59	49.29	1.09	2.32
100.10	70.10	5.21	49.55	46.80	1.10	2.34
136.65	106.65	5.14	47.71	44.52	1.13	2.36
186.31	156.31	5.20	45.43	42.16	1.17	2.37
219.41	189.41	5.21	44.63	41.28	1.20	2.43
252.51	222.51	5.25	43.63	40.19	1.23	2.44
285.62	255.62	5.27	42.50	39.17	1.26	2.44
318.72	288.72	5.26	42.63	38.66	1.28	2.53
351.82	321.82	5.35	41.96	37.65	1.31	2.44
384.93	354.93	5.41	40.38	36.31	1.34	2.52
418.03	388.03	5.39	39.35	34.63	1.39	2.58
451.13	421.13	5.53	37.97	34.45	1.43	2.52
484.24	454.24	5.58	36.94	33.38	1.45	2.63
500.79	470.79	5.58	36.54	33.15	1.45	2.59
533.89	503.89	5.69	35.79	32.80	1.43	2.46
550.45	520.45	5.74	35.31	32.18	1.41	2.49
583.55	553.55	5.74	35.05	30.26	1.38	2.66
600.10	570.10	5.72	35.01	29.30	1.38	2.64

Electrical Schematic



Mini-Circuits
ISO 9001 ISO 14001 AS 9100 CERTIFIED

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For detailed performance specs & shopping online see web site

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