

Coaxial Frequency Mixer

ZX05-1HW+

Level 17 (LO Power +17 dBm) 5 to 750 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	ZX05-1HW-S+	\$41.95 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.

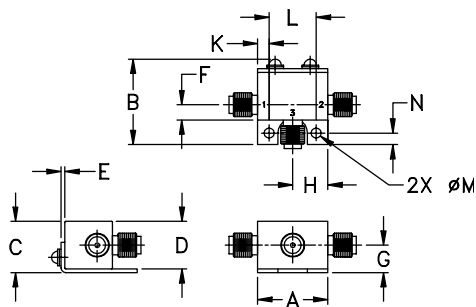
Electrical Specifications (T_{AMB}=25°C)

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					
5-750	DC-750	6.0	0.1	8.6	9.0	64	45	48	35	42	28	50	35	40	30	30	20	26

1 dB COMP.: +14 dBm typ.
Positive phase detection
Conversion loss specification at 30 MHz IF

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

Outline Drawing



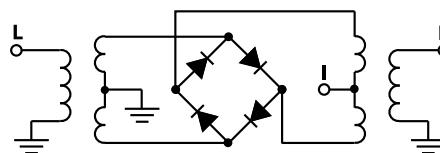
Outline Dimensions (inch/mm)

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 +17dBm	LO +17dBm	LO +17dBm	LO +17dBm	LO +17dBm
5.10	35.10	6.74	94.96	63.87	1.31	1.53
35.10	65.10	6.40	67.86	54.58	1.12	1.48
75.10	45.10	6.40	60.85	49.58	1.11	1.61
120.10	90.10	6.33	56.83	47.30	1.07	1.61
139.72	109.72	6.17	55.81	45.58	1.04	1.61
159.33	129.33	6.13	54.98	44.04	1.03	1.61
198.56	168.56	6.06	52.51	43.49	1.03	1.58
237.79	207.79	6.05	52.13	42.27	1.04	1.56
277.02	247.02	6.06	49.94	42.33	1.05	1.56
316.25	286.25	6.15	48.93	42.92	1.07	1.54
355.49	325.49	6.22	49.43	41.63	1.08	1.60
400.10	370.10	6.28	49.34	39.26	1.10	1.63
443.85	413.85	6.33	47.39	37.31	1.11	1.68
487.60	457.60	6.45	43.70	35.86	1.13	1.74
531.35	479.48	6.56	42.87	33.92	1.14	1.79
575.10	545.10	6.62	42.60	31.89	1.15	1.82
618.85	588.85	6.73	42.18	30.57	1.16	1.85
662.60	632.60	6.75	42.16	29.55	1.19	1.91
706.35	676.35	6.99	40.42	29.93	1.24	2.03
750.10	720.10	7.38	40.62	29.75	1.36	2.11

Electrical Schematic



Mini-Circuits
ISO 9001 ISO 14001 AS 9100 CERTIFIED

For detailed performance specs & shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicircuits.com

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