

Coaxial Frequency Mixer

Level 23 (LO Power +23 dBm) 0.07 to 200 MHz

ZAY-3+ ZAY-3



Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power	350mW
IF Current	40mA

Permanent damage may occur if any of these limits are exceeded.

Coaxial Connections

LO	1
RF	3
IF	2

Features

- low conversion, 5.53
- high L-R & L-I isolation, 40 dB typ.
- rugged shielded case

Applications

- VHF
- FM radio
- instrumentation

CASE STYLE: M22

Connectors	Model	Price	Qty.
BNC	ZAY-3(+)	\$64.95	(1-9)
BRACKET (OPTION "B")		\$5.00	(1+)
BRACKET (OPTION "BR")		\$1.50	(1+)

+ 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.

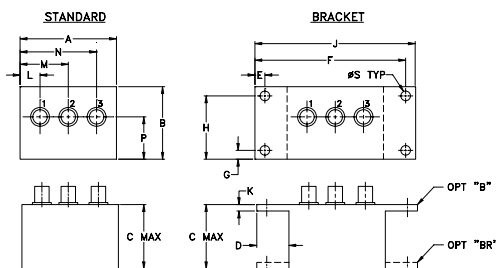
Electrical Specifications

FREQUENCY (MHz)	CONVERSION LOSS (dB)	LO-RF ISOLATION (dB)						LO-IF ISOLATION (dB)											
		Mid-Band m			Total Range Max.			L		M		U		L		M		U	
LO/RF f_L-f_U	IF \bar{X} σ Max.	\bar{X}	σ	Max.	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.
0.07-200	DC-200	5.53	0.08	7.5	8.0	55	45	40	30	30	25	55	45	40	30	30	20		

1 dB COMP.: +15 dBm typ.

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 [$2f_L$ to $f_U/2$]

Outline Drawing



Outline Dimensions (inch/mm)

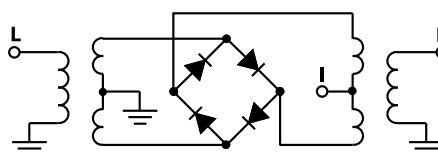
A	B	C	D	E	F	G	H
2.25	1.38	1.24	.50	.150	3.100	.138	1.238
57.15	35.05	31.50	12.70	3.81	78.74	3.51	31.45

J	K	L	M	N	P	S	wt
3.25	.10	.40	1.15	1.86	.64	.150	grams
82.55	2.54	10.16	29.21	47.24	16.26	3.81	74.0

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 +23dBm	LO +23dBm	LO +23dBm	LO +23dBm	LO +23dBm
0.07	30.07	5.77	55.55	56.68	1.17	2.42
0.20	30.20	5.58	53.15	57.09	1.18	2.40
1.00	31.00	5.29	52.74	57.07	1.18	2.23
5.00	35.00	5.23	52.57	56.88	1.17	2.21
20.00	50.00	5.27	52.28	56.59	1.17	2.19
34.54	64.54	5.24	51.27	54.69	1.16	2.20
48.33	78.33	5.26	48.91	51.06	1.15	2.20
62.12	92.12	5.28	46.28	47.85	1.15	2.27
69.01	99.01	5.29	44.38	45.65	1.14	2.27
82.80	128.80	5.28	42.67	43.88	1.13	2.28
96.59	158.59	5.28	41.29	41.90	1.13	2.25
103.48	165.53	5.25	39.95	40.89	1.13	2.14
117.27	179.32	5.28	39.22	39.90	1.12	2.10
131.06	193.10	5.29	39.37	39.78	1.12	2.17
144.85	207.00	5.34	38.04	37.10	1.12	2.25
158.63	221.00	5.43	36.70	33.79	1.12	2.29
165.53	235.00	5.47	36.49	31.41	1.13	2.22
179.32	249.00	5.47	36.22	30.50	1.14	2.16
193.10	263.00	5.54	36.47	29.43	1.16	2.18
207.00	277.00	5.51	36.43	29.00	1.16	2.21

Electrical Schematic



Mini-Circuits
ISO 9001 ISO 14001 AS 9100 CERTIFIED

For detailed performance specs & shopping online see web site

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IF/RF MICROWAVE COMPONENTS

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Performance Charts

