

Coaxial Frequency Mixer

Level 23 (LO Power +23 dBm) 5 to 500 MHz

ZMY-1+

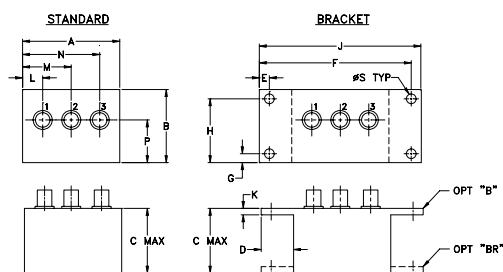
Maximum Ratings

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

Outline Drawing



Outline Dimensions (inch)

A	B	C	D	E	F	G	H
1.50	1.13	1.00	.50	.155	2.345	.138	.987
38.10	28.70	25.40	12.70	3.94	59.56	3.51	25.07
J	K	L	M	N	P	S	Wt
2.50	.10	.31	.75	1.19	.66	.150	grams
63.50	2.54	7.87	19.05	30.23	16.76	3.81	40.0

Features

- low conversion loss, 6.62 dB typ.
- high isolation, 40 dB typ. L-R & L-I
- wideband, 5 to 500 MHz

Applications

- VHF/UHF
- instrumentation



HT-Series
Tight Spot
SMA Wrench
From \$24.95

CASE STYLE: M21

Connectors	Model
SMA	ZMY-1+
BRACKET (OPTION "BR")	

+RoHS Compliant

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)					
LO/RF	IF	Mid-Band		Total		L		M		U		L		M		U	
f_L - f_U		$\bar{X}$	σ	Max.	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.
5-500	DC-500	6.62	0.10	7.5	8.5	55	45	40	30	30	25	55	45	40	30	30	20

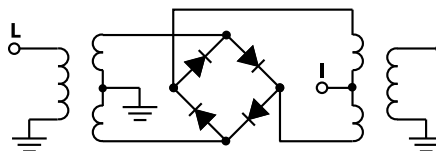
1 dB COMP.: +15 dBm typ.

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

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
5.00	35.00	6.52	57.02	82.02	1.29	2.50
10.00	40.00	6.40	56.72	82.32	1.14	2.37
20.00	50.00	6.40	54.48	81.28	1.06	2.33
35.94	65.94	6.43	51.51	75.99	1.05	2.31
50.00	80.00	6.40	48.82	72.57	1.07	2.37
82.35	52.35	6.39	45.62	62.91	1.08	2.20
100.00	70.00	6.36	44.05	58.66	1.10	2.25
144.22	114.22	6.53	41.60	53.71	1.12	2.11
175.16	145.16	6.68	40.04	51.38	1.14	2.25
200.00	170.00	6.69	39.45	50.73	1.16	2.06
221.57	191.57	6.52	36.41	46.45	1.18	2.17
252.50	222.50	6.52	36.33	47.23	1.20	2.04
283.44	253.44	6.64	36.36	47.98	1.22	2.10
314.38	284.38	6.74	36.35	46.73	1.24	1.96
345.32	315.32	6.62	33.85	44.99	1.26	2.04
376.26	346.26	6.50	30.50	41.75	1.29	1.96
407.19	377.19	6.43	32.89	42.28	1.31	1.95
438.13	408.13	6.50	33.81	42.66	1.35	1.90
469.07	439.07	6.81	33.63	41.41	1.38	1.87
500.00	470.00	6.62	34.24	40.42	1.44	1.83

Electrical Schematic



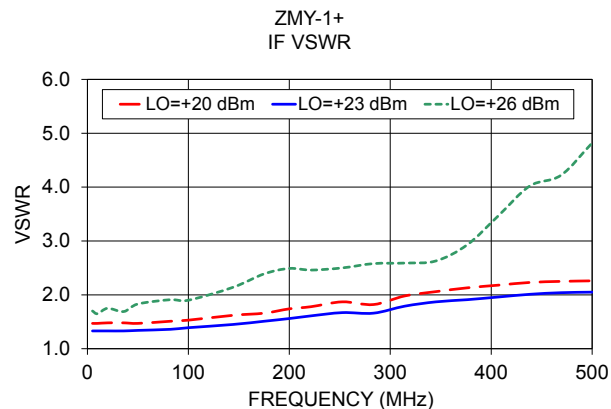
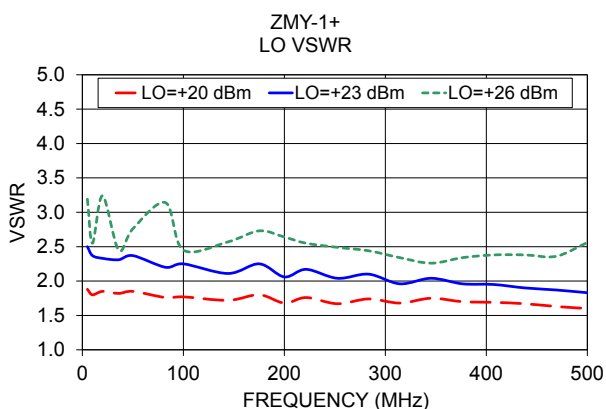
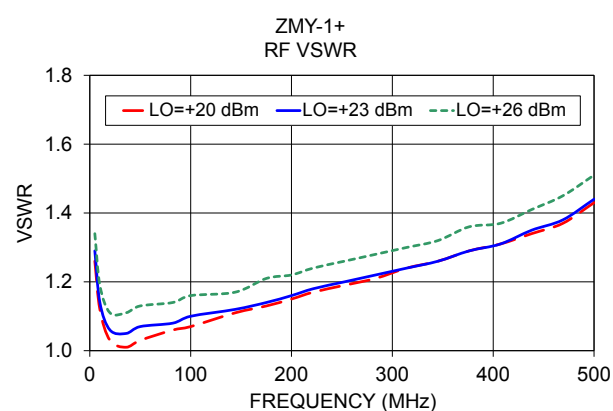
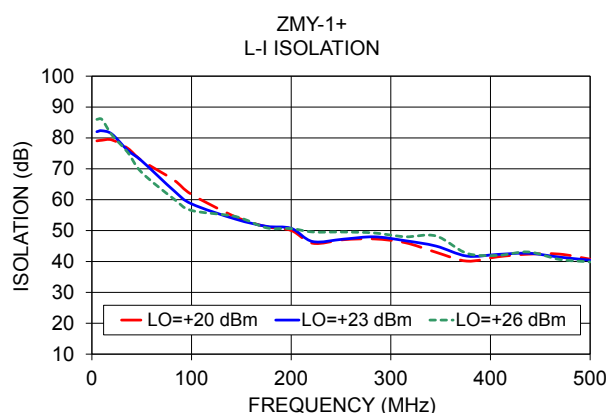
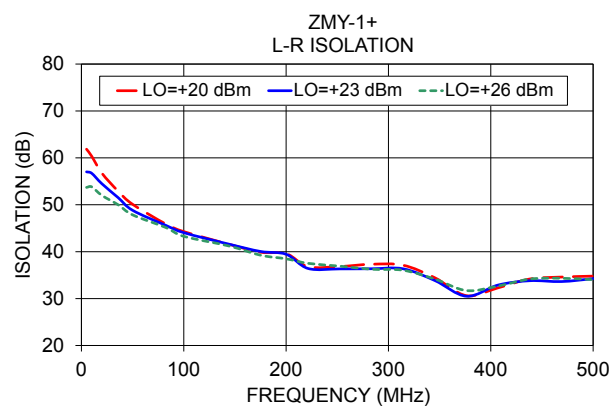
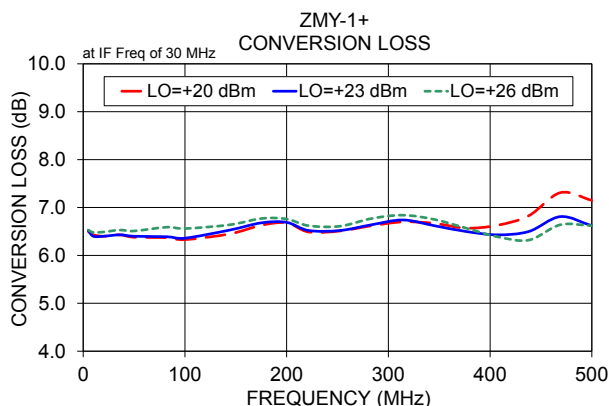
Notes

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