

Coaxial Frequency Mixer

Level 23 (LO Power +23 dBm) 10 to 1000 MHz

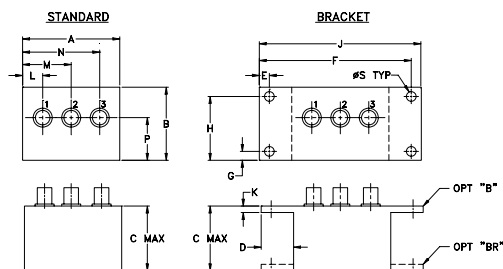
Maximum Ratings

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/mm)

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, 6.89 dB typ.
- high isolation, 40 dB typ. L-R, 35 dB typ. L-I
- wideband, 10 to 1000 MHz

Applications

- VHF/UHF
- cellular
- instrumentation



CASE STYLE: M21

Connectors Model Price Qty.
Contact Sales Dept.

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

NON-CATALOG

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.
10-1000	DC-1000	6.89	0.22	8.5	10.0	50	35	40	30	35	25	50	35	35	25	25	20

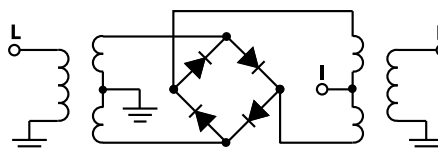
1 dB COMP.: +15 dBm typ.

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 $f_U/2$]

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
10.00	40.00	7.24	62.69	65.25	1.1	2.2
39.12	69.12	7.31	59.37	63.70	1.1	1.9
68.24	98.24	7.27	56.74	61.14	1.1	2.2
126.47	96.47	7.14	53.84	56.28	1.2	1.8
184.71	154.71	7.22	48.58	50.62	1.2	1.9
213.83	183.83	7.24	45.40	47.73	1.2	1.8
272.06	242.06	7.23	42.61	45.47	1.2	1.8
330.30	300.30	7.29	41.54	44.13	1.2	2.0
388.53	358.53	7.36	40.25	42.56	1.2	2.2
446.77	416.77	7.64	38.45	40.78	1.2	2.2
505.01	475.01	7.63	36.69	39.32	1.1	2.3
534.12	504.12	7.90	35.83	37.92	1.1	2.3
592.36	562.36	8.08	35.57	36.44	1.2	2.2
650.60	620.60	7.76	36.21	34.53	1.2	2.0
708.83	678.83	7.65	36.58	34.06	1.4	1.8
767.07	737.07	7.45	36.95	33.05	1.6	1.5
825.30	795.30	7.70	36.19	31.58	1.8	1.5
883.54	853.54	8.40	35.85	30.60	2.0	1.6
941.78	911.78	9.21	34.74	29.37	2.2	2.1
1000.00	970.00	9.87	34.25	29.56	2.7	4.9

Electrical Schematic



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IF/RF MICROWAVE COMPONENTS

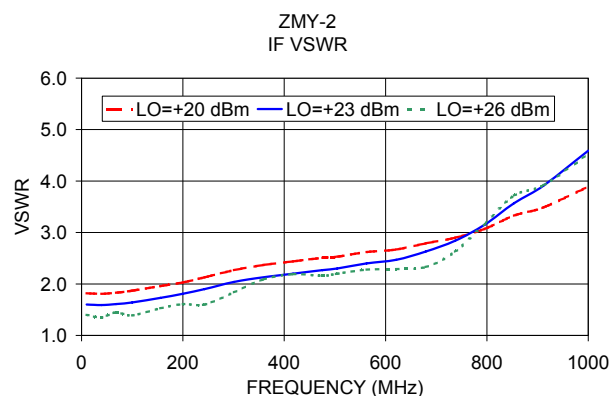
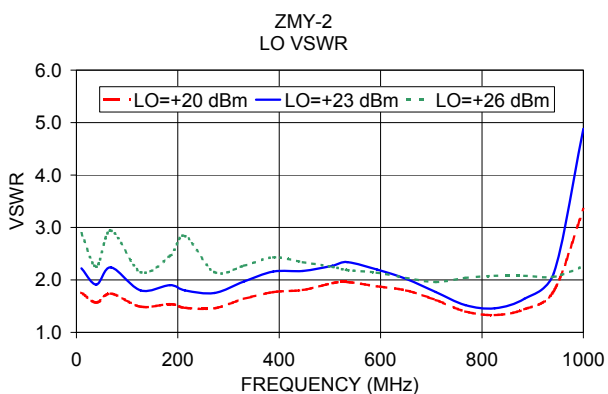
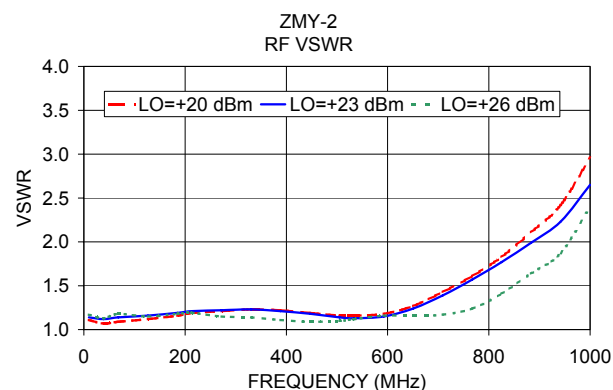
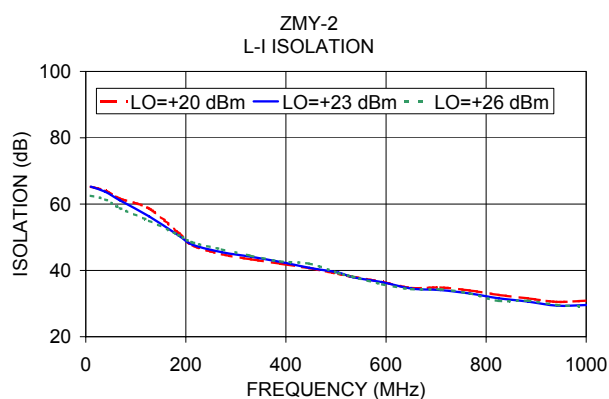
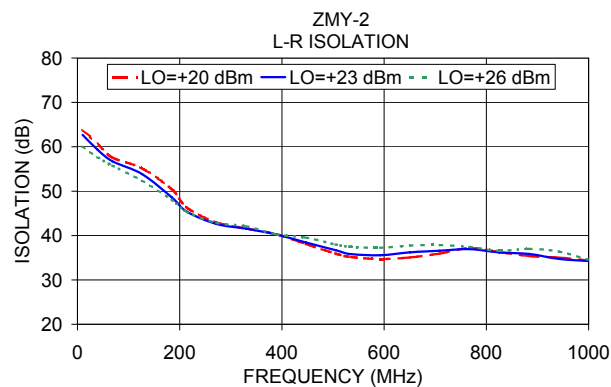
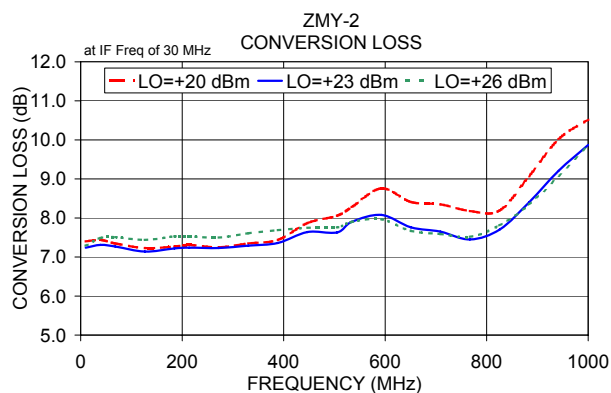
For detailed performance specs
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Performance Charts

**ZMY-2+
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