

Coaxial Frequency Mixer

Level 7 (LO Power +7 dBm) 100 to 2000 MHz

Maximum Ratings

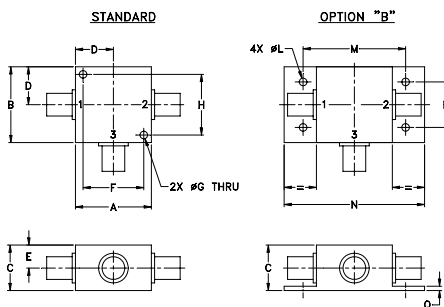
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power	50mW
IF Current	40mA

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

Coaxial Connections

LO	1
RF	2
IF	3

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H
1.25	1.25	.75	.63	.38	1.00	.125	1.000
31.75	31.75	19.05	16.00	9.65	25.40	3.18	25.40
J	K	L	M	N	P	Q	wt
--	--	.125	1.688	2.18	.75	.07	grams
--	--	3.18	42.88	55.37	19.05	1.78	70.0

Features

- low conversion loss, 7.49 dB typ.
- good L-R isolation, 37 dB typ, L-I, 30 dB typ.
- wideband, 100 to 2000 MHz
- rugged shielded case

Applications

- VHF/UHF
- cellular
- GPS
- instrumentation

ZFM-2000+



SMA version shown
CASE STYLE: K18

Connectors	Model
SMA	ZFM-2000+
BRACKET (OPTION "B")	

+RoHS Compliant

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

Electrical Specifications

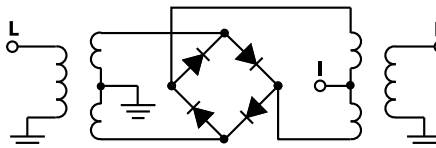
FREQUENCY (MHz)		CONVERSION LOSS (dB)				LO-RF ISOLATION (dB)		LO-IF ISOLATION (dB)	
LO/RF	IF	Mid-Band							
$f_L - f_U$		$\bar{X}$	σ	Max.	Total Range Max.	Typ.	Min.	Typ.	Min.
100-2000	DC-600	7.49	0.20	9.5	9.5	37	20	30	20

1 dB COMP.: +1 dBm typ.

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 +7dBm	LO +7dBm	LO +7dBm	LO +7dBm	LO +7dBm
100.00	130.00	7.88	63.45	46.41	5.22	2.43
200.00	230.00	7.16	60.41	40.82	5.25	2.36
267.65	237.65	7.37	58.33	38.59	5.06	2.39
435.29	405.29	7.73	51.41	34.21	4.59	2.43
500.00	470.00	7.83	52.88	33.31	4.34	2.42
602.94	572.94	7.78	52.63	32.54	4.17	2.42
714.71	684.71	7.91	54.29	30.27	3.55	2.34
770.59	740.59	8.02	54.64	30.10	3.13	2.34
938.24	908.24	7.66	60.17	29.50	2.55	2.24
994.12	964.12	7.51	59.11	29.33	2.52	2.22
1000.00	970.00	7.53	59.12	29.29	2.46	2.17
1161.76	1131.77	7.40	49.13	27.43	2.35	2.08
1273.53	1243.53	7.46	43.70	26.26	2.23	1.83
1385.29	1355.29	7.55	36.51	24.00	2.11	1.44
1441.18	1411.18	7.71	34.04	26.34	1.99	1.29
1552.94	1522.94	7.73	36.54	38.03	2.03	1.16
1720.59	1690.59	7.45	42.35	34.48	2.12	1.12
1888.24	1858.24	7.47	44.03	33.01	2.23	1.41
1944.12	1914.12	7.51	43.94	32.64	2.28	1.68
2000.00	1970.00	7.54	43.18	32.15	2.26	1.79

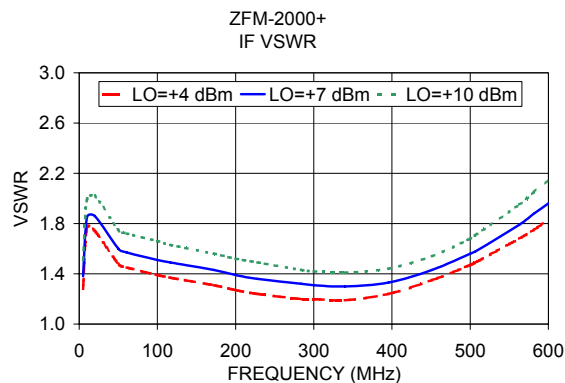
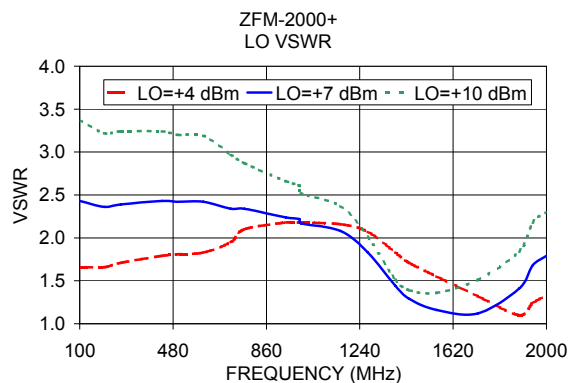
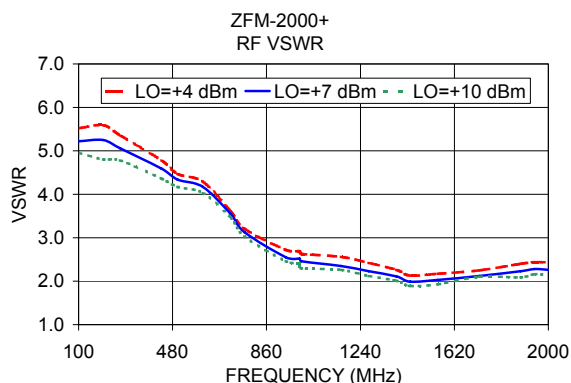
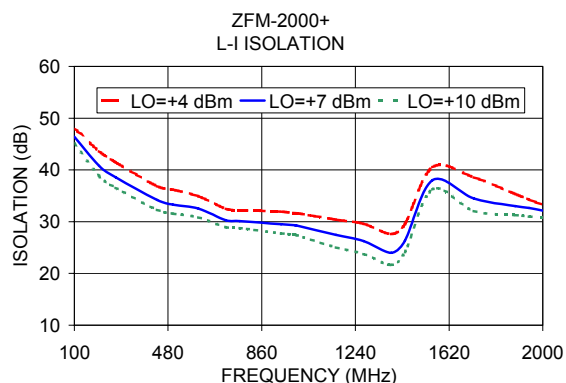
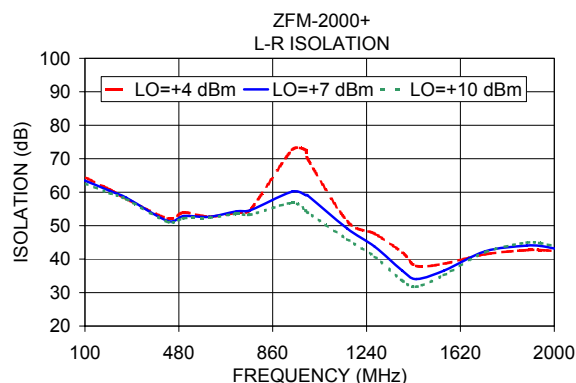
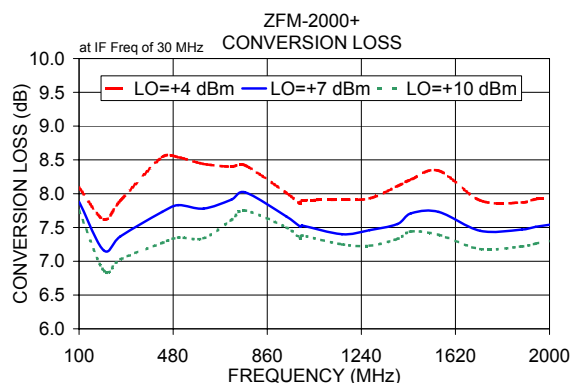
Electrical Schematic



Notes

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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