

Coaxial Frequency Mixer

ZFM-2000+

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



Generic photo used for illustration purposes only

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

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

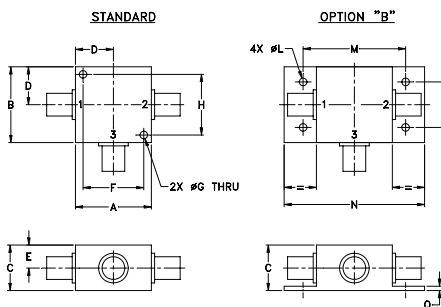
Features

- 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

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

Electrical Specifications

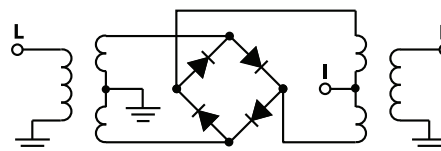
FREQUENCY (MHz)		CONVERSION LOSS (dB)				LO-RF ISOLATION (dB)		LO-IF ISOLATION (dB)	
LO/RF	IF	Mid-Band			Total Range Max.	Typ.	Min.	Typ.	Min.
$f_L - f_U$		\bar{X}	σ	Max.					
100-2000	DC-600	7.49	0.20	9.5	9.5	37	20	30	20

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

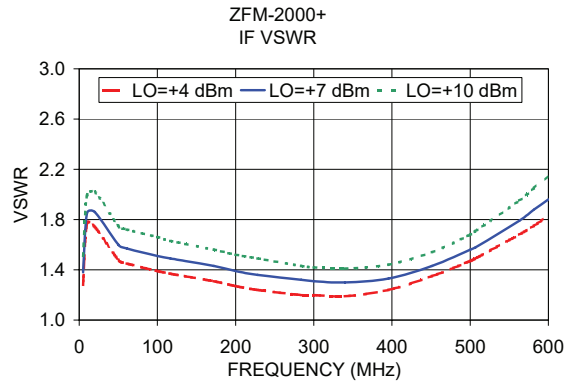
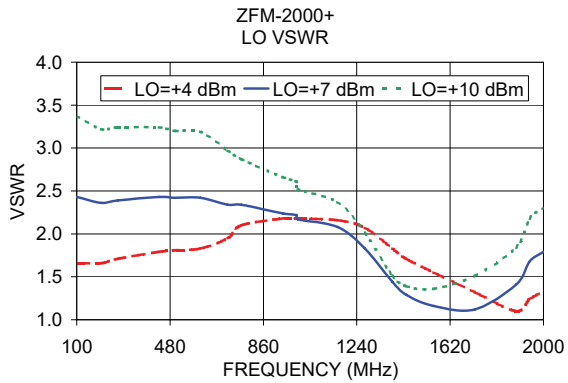
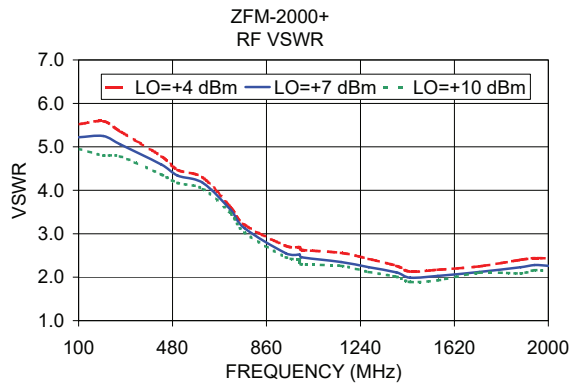
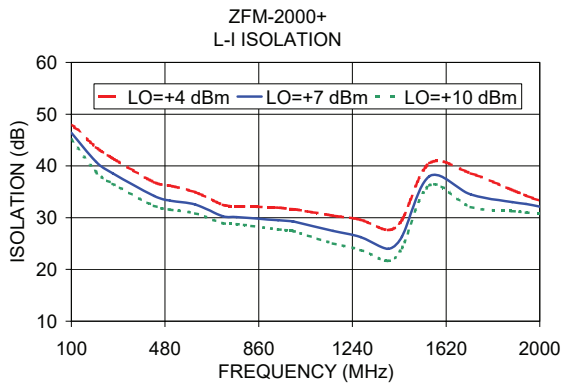
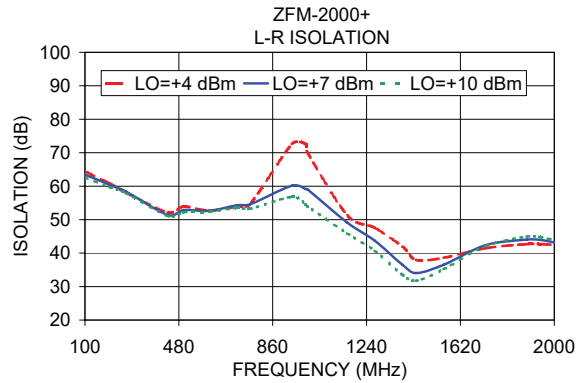
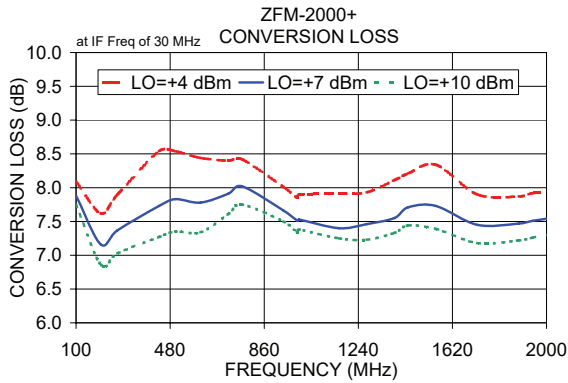
Electrical Schematic



Notes

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