

Coaxial Frequency Mixer

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

Maximum Ratings

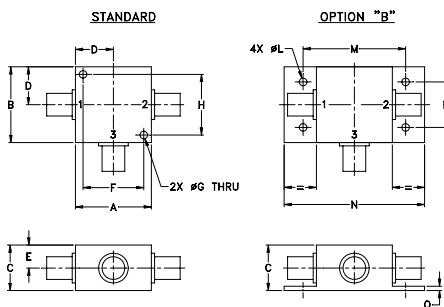
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power	50mW
IF Current	40mA

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

Coaxial Connections

LO	1
RF	2
IF	3

Outline Drawing



Outline Dimensions (inch)

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



SMA version shown
CASE STYLE: K18

Connectors	Model	Price	Qty.
SMA	ZFM-2000+	\$71.95 ea.	(1-9)
BRACKET (OPTION "B")		\$5.00	(1+)

+ RoHS compliant in accordance
with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS
Compliance. See our web site for RoHS Compliance
methodologies and qualifications.

Electrical Specifications

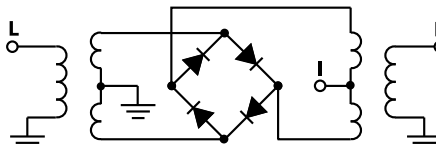
FREQUENCY (MHz)		CONVERSION LOSS (dB)				LO-RF ISOLATION (dB)		LO-IF ISOLATION (dB)	
LO/RF f_L-f_U	IF	Mid-Band				Typ.	Min.	Typ.	Min.
		$\bar{X}$	σ	Max.	Total Range Max.				
100-2000	DC-600	7.49	0.20	9.5	9.5	37	20	30	20

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



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IF/RF MICROWAVE COMPONENTS

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