

Coaxial

Frequency Mixer

Level 7 (LO Power +7 dBm) 2000 to 4200 MHz

ZFM-4212+



SMA version shown
CASE STYLE: K18

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, 5.44 dB typ.
- wideband, 2000 to 4200 MHz
- rugged shielded case

Applications

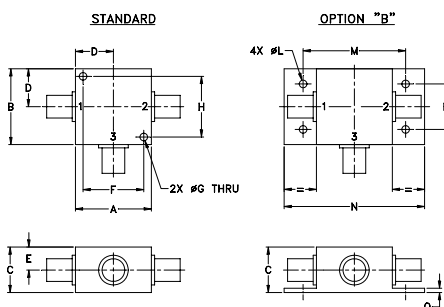
- VHF/UHF
- MMDS
- ISM
- instrumentation

Connectors	Model	Price	Qty.
SMA	ZFM-4212+	\$54.95 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.

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

Electrical Specifications

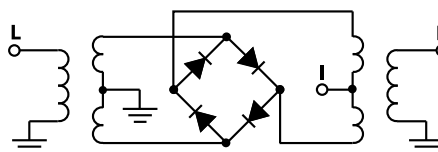
FREQUENCY (MHz)		CONVERSION LOSS (dB)		LO-RF ISOLATION (dB)		LO-IF ISOLATION (dB)		
LO/RF f_L - f_U	IF	Mid-Band		Total Range Max.	Typ.	Min.	Typ.	Min.
		$\overline{X}$	σ					
2000-4200	DC-1300	5.44	0.088	8.5	25	17	18	10

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
2000.00	1940.00	5.05	25.30	13.60	1.99	6.73
2043.75	1983.75	5.10	25.30	13.50	1.99	6.26
2187.50	2127.50	5.57	23.60	13.90	1.99	5.85
2331.25	2271.25	5.78	24.40	14.00	1.91	6.05
2475.00	2415.00	5.92	26.50	14.60	2.01	6.49
2618.75	2558.75	5.81	27.70	15.90	2.35	6.49
2762.50	2702.50	5.64	28.30	16.20	2.43	6.49
2906.24	2846.24	5.68	28.10	17.20	2.37	6.26
3000.00	2940.00	5.85	28.70	18.20	2.40	6.73
3050.00	2990.00	5.85	28.10	18.50	2.43	7.60
3193.75	3133.75	5.82	27.20	18.70	2.27	8.72
3337.50	3277.50	5.56	26.70	19.20	2.10	8.31
3481.25	3421.25	5.52	27.40	17.90	2.25	8.72
3625.00	3565.00	5.73	27.40	16.50	2.12	5.49
3768.75	3708.75	6.35	27.10	16.00	2.30	4.32
3912.50	3852.50	6.33	28.60	15.60	2.30	4.53
4000.00	3940.00	6.09	29.90	15.50	2.18	4.42
4056.25	3996.25	5.82	30.50	15.40	1.96	4.32
4119.00	4059.00	5.84	30.60	15.20	1.73	4.12
4200.00	4140.00	5.64	30.60	14.70	1.46	4.32

Electrical Schematic



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ISO 9001 ISO 14001 AS 9100 CERTIFIED

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IF/RF MICROWAVE COMPONENTS

For detailed performance specs & shopping online see web site

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