Frequency Mixer

Level 13 (LO Power +13 dBm) 300 to 4300 MHz

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power	200mW
IF Current	40mA

Coaxial Connections

LO	2
RF	1
IF	3

Outline Drawing M DIA. TYP

Outline Dimensions (inch)

G	F	E	D	С	В	Α
.100	1.25	.42	.37	.75	.83	.83
2.54	31.75	10.67	9.40	19.05	21.08	21.08
wt	N	M	- 1	K	- 1	н
wt grams		M .106	.21	.735	J .095	H 1.150

Features

- · low conversion loss, 6.42 dB typ.
- broadband, 300 to 4300 MHz
- IF response to DC

Applications

- · UHF/VHF
- MMDS · ISM/GPS
- instrumentation

ZEM-4300MH+ **ZEM-4300MH**



CASE STYLE: V37

Connectors	Model	Price	Qty.
SMA	ZEM-4300MH(+)	\$89.95	(1-9)

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

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-l	Band Total	L U	L U	
f _L -f _U		\overline{X}	Range σ Max.	Typ. Min. Typ. Min	Typ. Min. Typ. Min	
300-4300	DC-1000	6.42 0.	.15 8.5	40 20 40 20	14 7 12 7	

1 dB COMP .: +9 dBm typ.

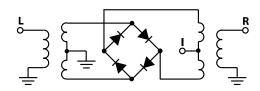
 $L = low range [f_i to 10 f_i]$

 $U = upper range [10 f_i to f_{ij}]$

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 +13dBm	LO +13dBm	LO +13dBm	LO +13dBm	LO +13dBm
300.00 500.00 575.86 600.00 989.66 1000.00 1403.45 1679.31 2000.00 2093.10 2231.03 2368.97 2506.90 2920.69 3000.00 3334.48 3610.34	500.00 700.00 775.86 800.00 789.66 800.00 1203.45 1479.31 1800.00 1893.10 2031.04 2168.97 2306.90 2720.69 2800.00 3134.48 3410.35 3800.00	7.02 6.66 6.30 6.62 6.61 6.53 6.30 5.89 6.16 6.43 6.54 6.30 6.24 6.23 6.20 6.22 6.38 6.47	42.09 33.47 35.56 35.00 36.09 36.06 32.65 39.70 34.09 33.26 32.41 31.34 29.89 27.73 26.08 27.73 30.12 33.12	9.54 9.04 9.47 9.79 17.49 17.37 14.72 19.11 23.50 23.82 25.64 28.66 27.33 17.77 16.39 15.67 13.56 10.27	2.21 3.20 3.19 2.55 1.64 2.66 5.34 4.31 2.63 2.48 2.42 2.35 2.26 2.30 2.29	5.54 5.20 5.14 6.32 4.48 3.06 2.48 4.59 2.77 1.88 1.89 1.90 2.41 2.23 3.01 2.73 1.84
4000.00 4162.07 4300.00	3962.07 4100.00	6.47 6.54 6.83	33.12 35.73 39.65	10.27 10.47 11.87	2.35 2.27 2.30	1.84 2.41 3.08

Electrical Schematic







ZEM-4300MH+ ZEM-4300MH

