

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
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along with credit for buybacks and trade-ins.

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so your equipment works exactly as you specify.

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Expert team | Trust guarantee | 100% satisfaction

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Coaxial

Frequency Mixer

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

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.

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

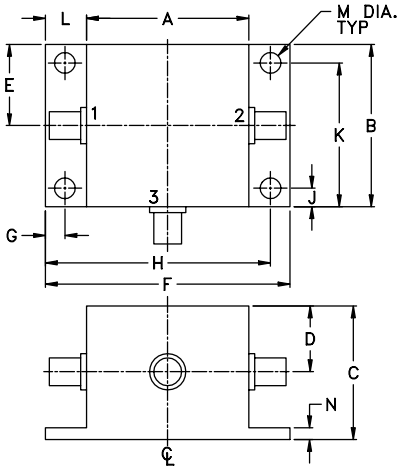
Features

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

Applications

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

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	F	G
.83	.83	.75	.37	.42	1.25	.100
21.08	21.08	19.05	9.40	10.67	31.75	2.54

H	J	K	L	M	N	wt
1.150	.095	.735	.21	.106	.06	grams
29.21	2.41	18.67	5.33	2.69	1.52	34

Electrical Specifications

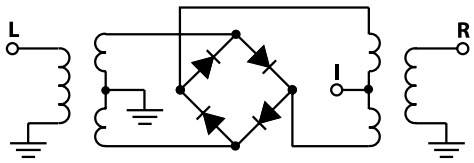
FREQUENCY (MHz)		CONVERSION LOSS (dB)			LO-RF ISOLATION (dB)				LO-IF ISOLATION (dB)			
		Mid-Band			L		U		L		U	
LO/RF	IF			Total Range								
f_L-f_U		$\bar{X}$	σ	Max.	Typ.	Min.	Typ.	Min	Typ.	Min.	Typ.	Min
300-4300	DC-1000	6.42	0.15	8.5	40	20	40	20	14	7	12	7

1 dB COMP.: +9 dBm typ. L = low range [f_L to 10 f_L] U = upper range [10 f_L to f_U]

Typical Performance Data

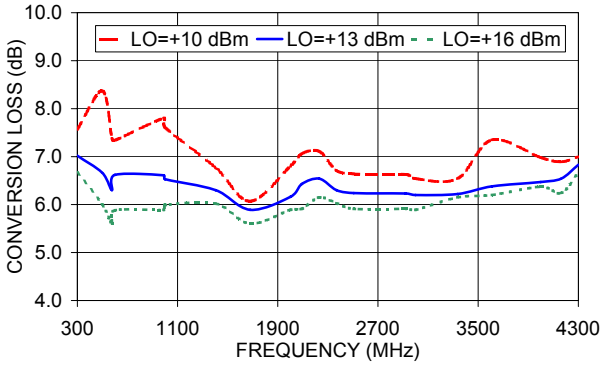
Frequency (MHz)		Conversion Loss (dB)	Isolation L-R (dB)	Isolation L-I (dB)	VSWR RF Port (:1)	VSWR LO Port (:1)
RF	LO	LO +13dBm	LO +13dBm	LO +13dBm	LO +13dBm	LO +13dBm
300.00	500.00	7.02	42.09	9.54	2.21	5.54
500.00	700.00	6.66	33.47	9.04	3.20	5.20
575.86	775.86	6.30	35.56	9.47	3.19	5.14
600.00	800.00	6.62	35.00	9.79	2.55	6.32
989.66	789.66	6.61	36.09	17.49	1.64	4.48
1000.00	800.00	6.53	36.06	17.37	2.66	3.06
1403.45	1203.45	6.30	32.65	14.72	5.34	2.48
1679.31	1479.31	5.89	39.70	19.11	4.31	4.59
2000.00	1800.00	6.16	34.09	23.50	2.63	2.77
2093.10	1893.10	6.43	33.26	23.82	2.48	1.88
2231.03	2031.04	6.54	32.41	25.64	2.42	1.88
2368.97	2168.97	6.30	31.34	28.66	2.35	1.89
2506.90	2306.90	6.24	29.89	27.33	2.26	1.90
2920.69	2720.69	6.23	27.73	17.77	2.30	2.41
3000.00	2800.00	6.20	26.08	16.39	2.29	2.23
3334.48	3134.48	6.22	27.73	15.67	2.29	3.01
3610.34	3410.35	6.38	30.12	13.56	1.82	2.73
4000.00	3800.00	6.47	33.12	10.27	2.35	1.84
4162.07	3962.07	6.54	35.73	10.47	2.27	2.41
4300.00	4100.00	6.83	39.65	11.87	2.30	3.08

Electrical Schematic

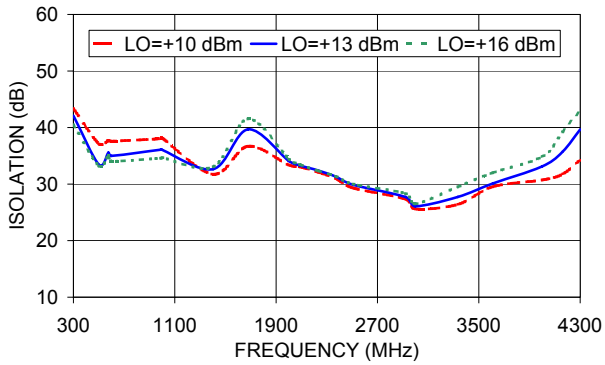


Performance Charts

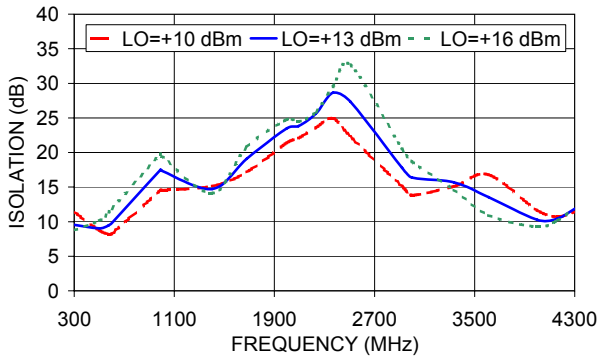
ZEM-4300MH
CONVERSION LOSS



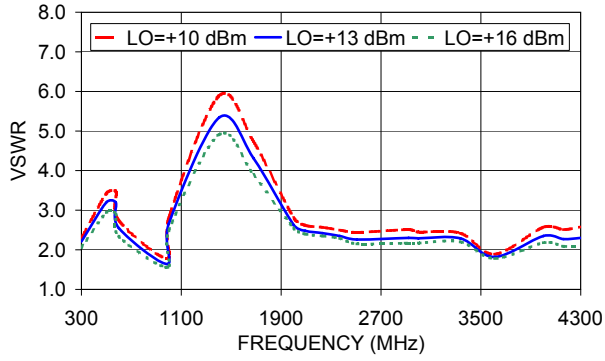
ZEM-4300MH
L-R ISOLATION



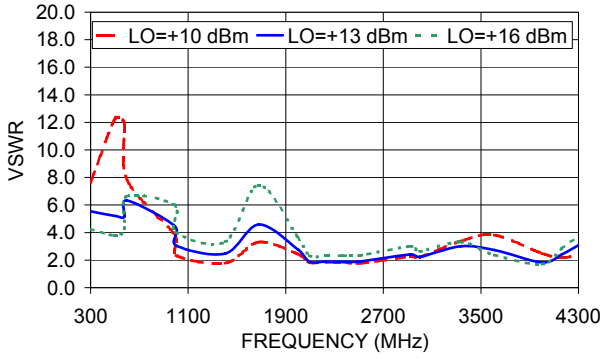
ZEM-4300MH
L-I ISOLATION



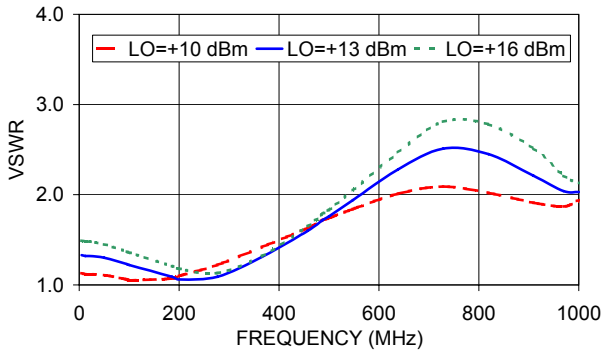
ZEM-4300MH
RF VSWR



ZEM-4300MH
LO VSWR



ZEM-4300MH
IF VSWR



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