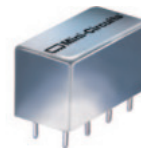


Plug-In Frequency Mixer

Level 17 (LO Power +17 dBm) 0.05 to 200 MHz

SRA-3H+



CASE STYLE: A01

Maximum Ratings

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

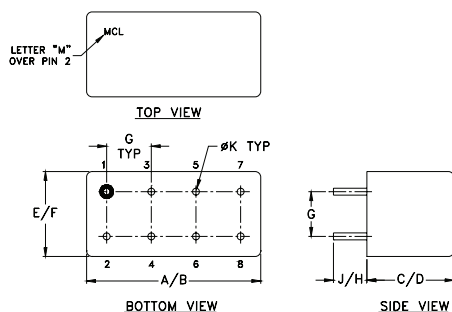
Permanent damage may occur if any of these limits are exceeded.

Pin Connections

LO	8
RF	1
IF	3,4^
GROUND	2,5,6,7
CASE GROUND	2

^ pins must be connected together externally

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F
.770	.800	.385	.400	.370	.400
19.56	20.32	9.78	10.16	9.40	10.16
G	H	J	K	wt	
.200	.20	.14	.031	grams	
5.08	5.08	3.56	0.79	5.2	

Features

- excellent conversion loss, 5.18 dB typ.
- high L-R isolation, 40 dB typ. L-I isolation, 40 dB typ.
- rugged welded construction
- hermetic

Applications

- VHF/UHF
- FM broadcast radio
- maritime communications
- defense & federal communications

Electrical Specifications

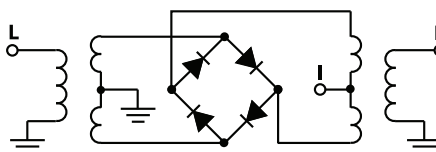
FREQUENCY (MHz)		CONVERSION LOSS (dB)				LO-RF ISOLATION (dB)						LO-IF ISOLATION (dB)					
LO/RF f_L - f_U	IF	Mid-Band m		Total Range Max.		L		M		U		L		M		U	
		$\bar{X}$	σ	Max.	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.
0.05-200	DC-200	5.18	.05	7.0	7.5	50	45	40	30	35	25	45	35	40	30	30	20

1 dB COMP.: +10 dBm typ. L = low range [f_L to $10 f_L$] M = mid range [$10 f_L$ to $f_U/2$] U = upper range [$f_U/2$ to f_U]
m= mid band [$2 f_L$ to $f_U/2$]

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 +17dBm	LO +17dBm	LO +17dBm	LO +17dBm	LO +17dBm
0.05	30.05	5.79	61.52	58.47	1.22	2.35
0.20	30.20	5.33	61.30	55.83	1.23	2.27
1.00	31.00	5.25	61.00	55.41	1.22	2.14
5.00	35.00	5.18	58.85	54.15	1.21	2.17
10.00	40.00	5.36	54.85	51.92	1.20	2.19
20.00	50.00	5.40	48.89	47.33	1.20	2.19
41.42	71.42	5.37	41.07	40.89	1.19	2.18
50.00	80.00	5.37	39.79	39.78	1.18	2.27
69.00	99.00	5.34	39.34	38.19	1.15	2.20
89.68	59.68	5.33	38.45	35.45	1.15	2.21
103.47	73.37	5.34	36.25	36.39	1.13	2.14
110.37	80.37	5.37	35.73	35.84	1.13	2.07
117.26	87.26	5.38	35.17	35.59	1.11	2.12
131.05	101.05	5.40	34.48	35.04	1.10	2.15
137.95	107.95	5.42	33.95	34.10	1.10	2.24
151.74	121.74	5.50	32.91	31.97	1.11	2.21
165.53	135.53	5.66	31.97	30.09	1.12	2.17
179.31	149.31	5.76	31.41	28.67	1.14	2.13
193.10	163.10	5.77	31.62	28.17	1.17	2.20
200.00	170.00	5.75	32.02	28.21	1.19	2.23

Electrical Schematic



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IF/RF MICROWAVE COMPONENTS

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