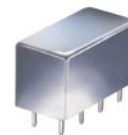


Plug-In Frequency Mixer

Level 17 (LO Power +17 dBm) 5 to 1200 MHz

SRA-173H+



Maximum Ratings

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

Pin Connections

	Config.1	Config.2
LO	3	8
RF	1	1
IF	8	3
GROUND	2,5,6,7	2,5,6,7
CASE GROUND	2,5,6,7	2,5,6,7
NOT USED	4	4

Features

- excellent conversion loss, 5.38 dB typ.
- good L-R isolation, 35 dB typ. L-I isolation, 35 dB typ.
- rugged welded construction
- hermetically sealed

Applications

- cellular
- GSM/ISM
- UHF TV
- defense & federal communications

CASE STYLE: A01
PRICE: \$36.20 ea. QTY (1-9)

+ 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 m		Total Range		L		M		U		L		M		U	
		$\bar{X}$	σ	Max.	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.
5-1200	DC-1200*	5.38	.05	7.0	8.5*	40	35	35	25	35	20	40	35	35	20	30	20

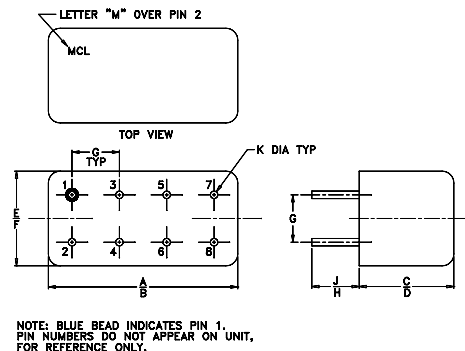
1 dB COMP.: +10 dBm typ.
Below 1 MHz IF, conversion loss increases as frequency decreases to DC: up to 6 dB higher when using Pin Connections Config. 1, to virtually infinite when using Pin Connections config. 2

L = low range [f_L to $10 f_L$]
m = mid band [$2 f_L$ to $f_U/2$]

M = mid range [$10 f_L$ to $f_U/2$]

U = upper range [$f_U/2$ to f_U]

Outline Drawing



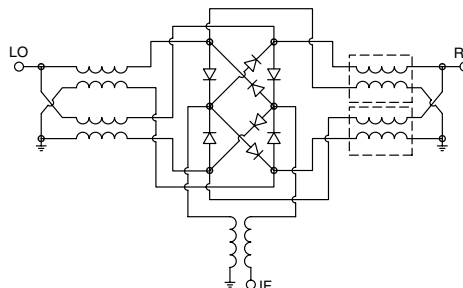
Outline Dimensions (inch/mm)

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	

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
5.00	35.00	5.36	40.90	39.89	1.18	2.53
10.00	40.00	5.22	41.90	43.43	1.18	2.52
20.00	50.00	5.36	42.71	44.48	1.18	2.54
50.00	80.00	5.33	41.81	42.82	1.17	2.44
100.00	70.00	5.34	40.38	40.38	1.18	2.36
128.62	98.62	5.36	39.66	39.17	1.20	2.40
200.00	170.00	5.47	38.20	36.56	1.26	2.16
252.24	222.24	5.54	37.74	35.15	1.34	1.99
334.66	304.66	5.46	37.00	33.06	1.44	1.93
417.07	387.07	5.47	36.23	31.39	1.56	1.75
500.00	470.00	5.65	37.19	30.16	1.66	1.67
581.90	551.90	5.49	37.86	29.87	1.85	1.55
623.11	593.11	5.61	34.99	29.66	2.01	1.40
705.52	675.52	5.76	35.63	29.66	2.24	1.29
800.00	770.00	6.43	36.96	29.67	2.43	1.21
911.55	881.55	6.71	35.83	30.27	2.66	1.17
1000.00	970.00	6.65	33.44	32.10	2.61	1.20
1076.40	1046.40	6.45	35.45	31.19	2.78	1.32
1158.80	1128.80	6.29	35.75	36.16	2.59	1.48
1200.00	1170.00	6.08	34.68	37.45	2.53	1.59

Electrical Schematic



Performance Charts

SRA-173H+

