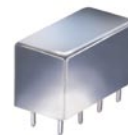


Plug-In Frequency Mixer

Level 17 (LO Power +17 dBm) 0.5 to 500 MHz

SRA-1H+



CASE STYLE: A01
PRICE: \$25.20 ea. QTY (1-9)

Maximum Ratings

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

Pin Connections

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

[^] pins must be connected together externally

Features

- excellent conversion loss, 6.01 dB typ.
- high L-R isolation, 45 dB typ. L-I isolation, 40 dB typ.
- rugged welded construction
- hermetic

Applications

- VHF/UHF
- defense & federal communications
- instrumentation

+ 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.
0.5-500	DC-500	6.01	.08	7.5	8.5	55	45	45	30	35	25	45	35	40	30	30	20

1 dB COMP.: +1 dBm typ.

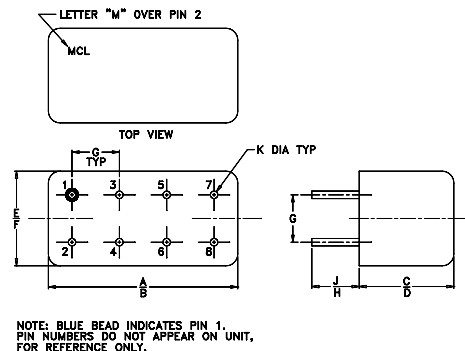
L = low range [f_L to 10 f_L]

m = mid band [$2f_L$ 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
0.50	30.50	7.38	64.73	58.33	1.26	2.93
2.00	32.00	6.29	62.80	57.04	1.13	2.80
10.00	40.00	5.89	58.80	53.94	1.08	2.61
20.00	50.00	5.93	51.76	47.62	1.09	2.57
50.00	80.00	5.91	48.13	44.45	1.10	2.57
81.07	51.07	5.84	43.91	40.75	1.12	2.72
100.00	70.00	5.82	42.51	39.43	1.12	2.57
129.40	99.40	5.85	41.76	38.65	1.14	2.45
161.63	131.63	5.90	39.94	37.09	1.16	2.59
193.86	163.86	5.98	38.70	35.65	1.17	2.39
226.08	196.08	6.10	38.27	35.36	1.18	2.34
258.31	228.31	6.01	37.16	34.23	1.24	2.56
274.42	244.42	5.97	36.62	33.23	1.26	2.43
306.65	276.65	6.07	35.81	32.42	1.26	2.47
338.87	308.87	6.16	34.78	30.96	1.33	2.54
371.10	341.10	6.34	33.92	29.51	1.34	2.45
403.33	373.33	6.42	33.83	28.51	1.36	2.59
435.55	405.55	6.60	34.53	28.16	1.39	2.55
467.78	437.78	6.76	35.55	28.51	1.40	2.52
500.00	470.00	6.85	34.97	28.71	1.42	2.52

Electrical Schematic

