

Plug-In Frequency Mixer

Level 7 (LO Power +7 dBm) 500 to 3500 MHz

SRA-3500+



CASE STYLE: A06
PRICE: \$34.20 ea. QTY (1-9)

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power	50mW
IF Current	40mA

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

Pin Connections

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

Features

- excellent conversion loss, 7.28 dB typ.
- good L-R isolation, 30 dB typ. L-I isolation, 20 dB typ.
- rugged welded construction
- hermetically, sealed

Applications

- satellite distribution
- MMDS
- GSM/ISM
- defense radar

+RoHS Compliant

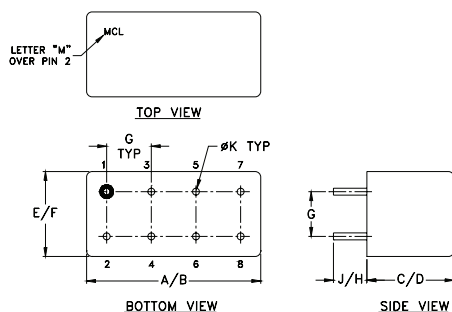
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Electrical Specifications

FREQUENCY (MHz)		CONVERSION LOSS* (dB)				LO-RF ISOLATION (dB)		LO-IF ISOLATION (dB)	
		Mid-Band m	Total Range Max.			Typ.	Min.	Typ.	Min.
500-3500	DC-1000	7.28	.31	9.5	9.5	30	17	20	8

1 dB COMP.: +1 dBm typ.
*conversion loss 10 dBm at IF=1000 MHz
m= mid band [$2f_L$ to $f_U/2$]

Outline Drawing



Outline Dimensions (inch/mm)

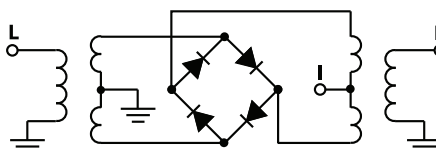
A	B	C	D	E	F
.770	.800	.285	.310	.370	.400
19.56	20.32	7.24	7.87	9.40	10.16

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 +7dBm	LO +7dBm	LO +7dBm	LO +7dBm	LO +7dBm
500.00	530.00	5.49	44.57	34.18	1.82	2.52
676.47	646.47	4.86	45.01	32.12	1.20	2.56
852.94	822.94	5.14	44.31	30.77	1.33	2.66
1000.00	970.00	5.49	43.00	30.12	1.64	2.80
1117.65	1087.65	6.31	41.48	29.93	1.89	2.68
1294.12	1264.12	6.71	38.60	28.62	2.32	2.35
1382.35	1352.35	6.65	38.54	29.04	2.85	2.17
1500.00	1470.00	6.73	37.52	28.95	3.54	2.01
1647.06	1617.06	6.75	35.53	26.47	4.67	1.68
1823.53	1793.53	7.16	34.94	23.92	5.54	1.27
2000.00	1970.00	7.35	34.78	22.93	6.01	1.26
2088.24	2058.24	7.33	34.08	22.73	5.25	1.36
2264.71	2234.71	7.35	33.58	22.82	5.33	1.55
2500.00	2470.00	7.31	35.10	23.41	5.23	1.61
2617.65	2587.65	7.08	34.51	23.33	5.56	2.09
2882.35	2852.35	7.51	34.73	23.28	6.46	2.31
3000.00	2970.00	7.49	35.30	23.26	5.30	2.36
3147.06	3117.06	7.27	36.75	23.89	5.28	2.34
3323.53	3293.53	7.09	43.96	25.30	4.27	2.29
3500.00	3470.00	6.45	40.55	26.12	2.39	2.15

Electrical Schematic



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicircuits.com

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuits' applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp.

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