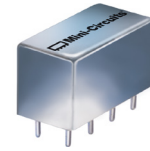


Plug-In Frequency Mixer

SRA-6+

Level 7 (LO Power +7 dBm) 0.003 to 100 MHz



CASE STYLE: A01

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

[^] pins must be connected together externally

Features

- excellent conversion loss, 4.58 dB typ.
- high L-R isolation, 45 dB typ. L-I isolation, 40 dB typ.
- rugged welded construction
- hermetic

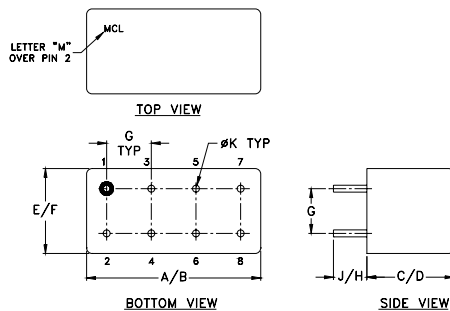
Applications

- VHF TV
- defense & federal communications
- radio astronomy

+RoHS Compliant

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

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	

Electrical Specifications

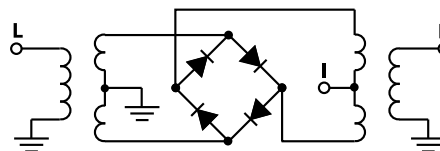
FREQUENCY (MHz)	CONVERSION LOSS (dB)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)												
		L	M	U	L	M	U										
.003-100	DC-100	4.58	.05	7.5	8.5	60	50	45	30	35	25	60	45	40	25	30	20

1 dB COMP.: +1 dBm typ. L = low range [f_1 to $10 f_1$] M = mid range [$10 f_1$ to $f_1/2$] U = upper range [$f_1/2$ to f_1]
m = mid band [$2 f_1$ to $f_1/2$]

Typical Performance Data

Frequency (MHz)	Conversion Loss (dB)	VSWR RF Port (:1)	Frequency (MHz)	Isolation L-R (dB)	Isolation L-I (dB)	VSWR LO Port (:1)
0.25	30.25	4.69	0.25	87.94	69.25	2.72
0.50	30.50	4.70	2.20	88.51	67.15	2.60
1.00	31.00	4.72	5.13	80.05	62.74	2.56
2.00	32.00	4.71	10.00	74.49	58.28	2.48
4.00	34.00	4.72	30.00	65.04	46.76	2.43
6.00	36.00	4.75	35.00	61.86	45.54	2.42
8.00	38.00	4.77	40.00	58.66	43.62	2.43
10.00	40.00	4.77	45.00	62.82	41.15	2.44
15.00	45.00	4.75	49.00	62.74	40.69	2.45
19.00	49.00	4.72	53.00	59.34	40.12	2.47
23.00	53.00	4.69	57.00	55.11	40.91	2.50
31.00	61.00	5.04	61.00	51.93	41.11	2.55
39.00	69.00	5.21	65.00	50.11	39.64	2.58
51.00	81.00	5.29	69.00	48.56	38.35	2.62
61.00	91.00	5.51	73.00	47.39	36.57	2.65
67.00	97.00	5.71	81.00	45.06	33.06	2.70
70.00	100.00	5.80	85.00	44.27	31.87	2.74
85.00	115.00	5.84	92.50	43.42	30.32	2.89
92.50	122.50	5.90	96.25	43.22	30.02	2.98
100.00	130.00	5.93	100.00	42.87	30.05	3.06

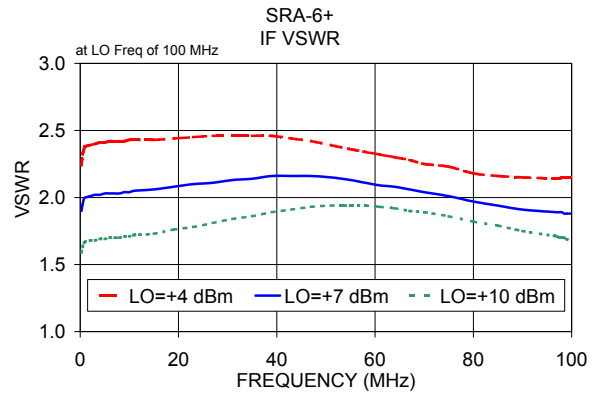
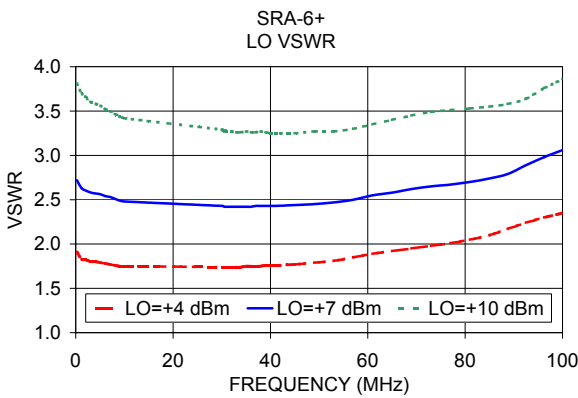
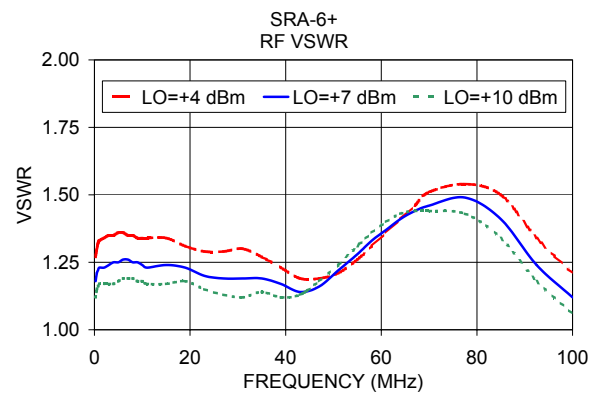
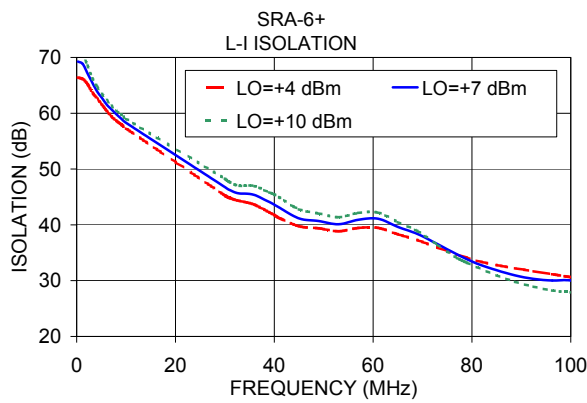
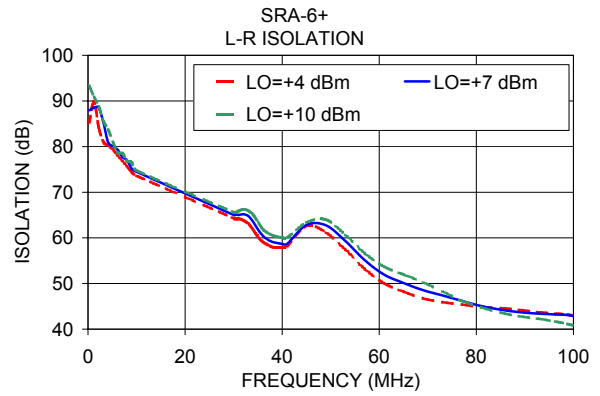
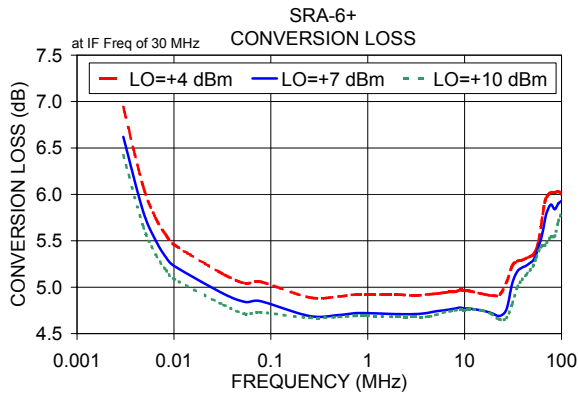
Electrical Schematic



Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- The parts covered by this specification document 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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