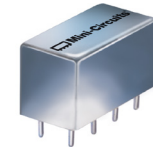


Plug-In Frequency Mixer

SRA-8+

Level 7 (LO Power +7 dBm) 0.0005 to 10 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

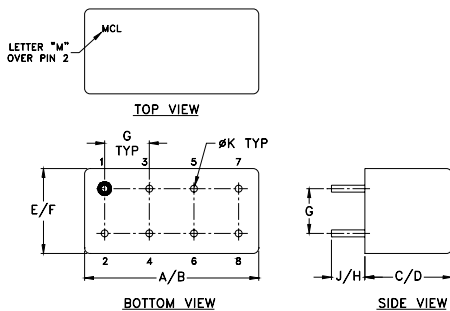
- excellent conversion loss, 5.69 dB typ.
- high L-R isolation, 50 dB typ. L-I isolation, 50 dB typ.
- rugged welded construction
- hermetic

Applications

- IF signal processing
- AM broadcasting radio

+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

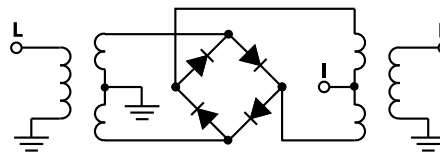
FREQUENCY (MHz)	CONVERSION LOSS (dB)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)								
		L	M	U	L	M	U						
LO/RF f_L-f_U	Mid-Band m \bar{X} σ Max.	Total Range Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.			
.0005-10	DC-10	5.69 .11 7.5 8.5	60	50	40	45	35	60	50	50	40	45	35

1 dB COMP.: +1 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 [$2f_L$ 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)	
						LO +7dBm
RF	LO	LO	LO	LO	LO	
0.001	3.00	5.26	71.79	72.81	1.41	3.30
0.002	3.00	4.96	75.56	77.65	1.37	2.70
0.005	3.01	4.92	73.77	80.99	1.38	2.54
0.01	3.01	4.88	71.40	77.86	1.37	2.46
0.02	3.02	4.84	71.49	76.56	1.37	2.41
0.05	3.05	4.84	72.03	78.05	1.38	2.32
0.10	3.10	4.79	71.80	78.10	1.38	2.29
0.20	3.20	4.88	71.48	77.93	1.38	2.21
0.50	3.50	4.86	71.98	77.73	1.37	2.10
0.70	3.70	4.83	71.60	76.54	1.37	1.98
1.00	4.00	4.88	71.65	75.42	1.37	1.95
1.43	4.43	4.91	71.81	71.58	1.37	1.94
2.00	5.00	4.91	72.01	69.03	1.36	1.96
2.86	5.86	4.97	71.64	64.97	1.37	2.01
4.29	7.29	5.16	71.16	59.46	1.36	2.03
5.00	8.00	5.17	71.48	58.01	1.36	2.02
6.43	9.43	5.18	70.78	54.45	1.36	1.98
7.14	4.14	5.21	70.73	53.39	1.36	1.94
8.57	5.57	5.23	70.34	50.80	1.36	1.92
10.00	7.00	5.22	70.10	48.53	1.35	1.90

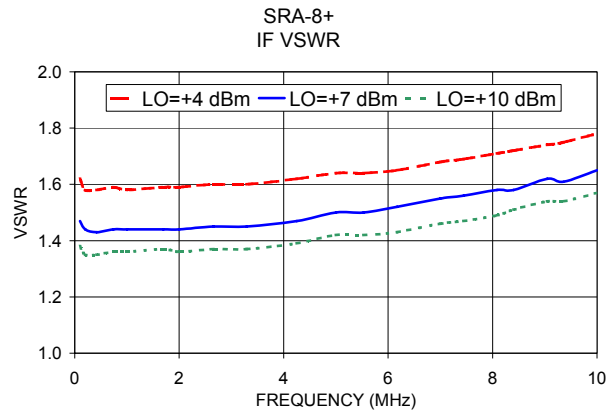
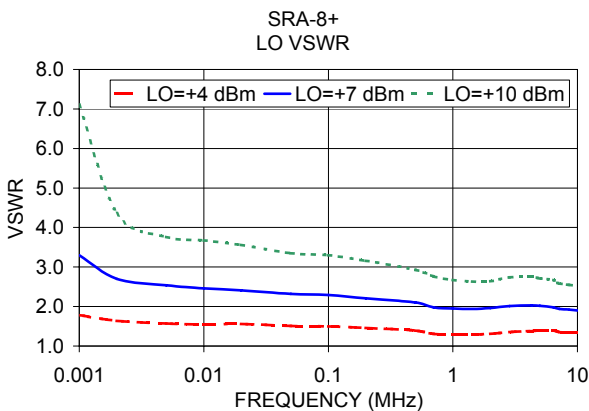
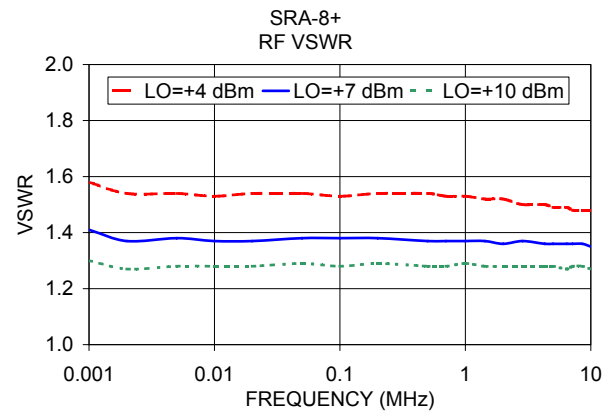
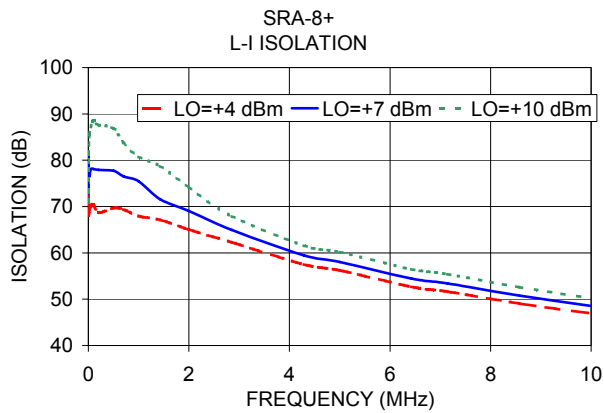
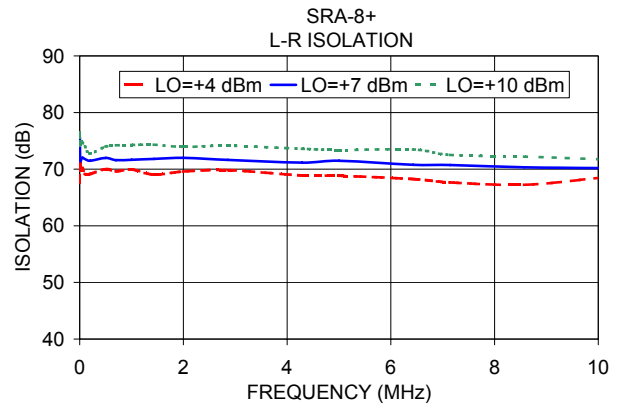
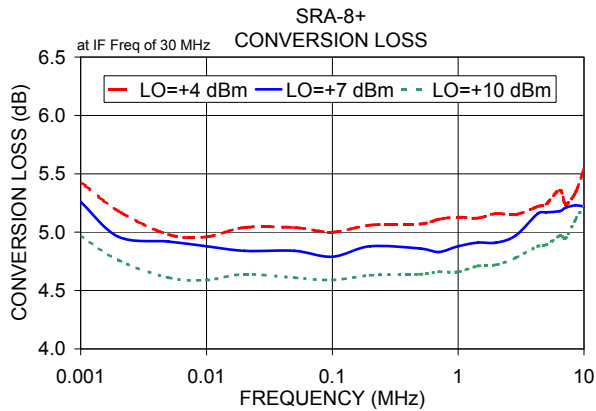
Electrical Schematic



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.
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