

Plug-In Frequency Mixer

SRA-6+

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



CASE STYLE: A01
PRICE: \$30.20 ea. QTY (1-9)

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

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.	

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

Pin Connections

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

[^] pins must be connected together externally

Electrical Specifications

FREQUENCY (MHz)		CONVERSION LOSS (dB)				LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)								
LO/RF	IF	Mid-Band		Total	L	M	U	L	M	U							
f_L - f_U		\bar{X}	σ	Max.	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.						
.003-100	DC-100	4.58	.05	7.5	8.5	60	50	45	30	35	25	60	45	40	25	30	20

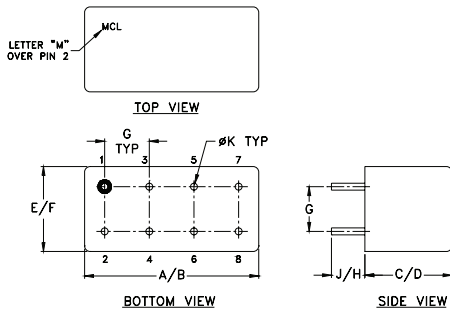
1 dB COMP.: +1 dBm typ.

L = low range [f_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



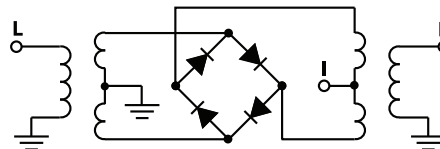
Outline Dimensions (inch/mm)

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)	VSWR RF Port (:1)	Frequency (MHz)	Isolation L-R (dB)	Isolation L-I (dB)	VSWR LO Port (:1)
RF	LO	LO +7dBm	LO +7dBm	LO	LO +7dBm	LO +7dBm	LO +7dBm
0.25	30.25	4.69	1.18	0.25	87.94	69.25	2.72
0.50	30.50	4.70	1.21	2.20	88.51	67.15	2.60
1.00	31.00	4.72	1.23	5.13	80.05	62.74	2.56
2.00	32.00	4.71	1.23	10.00	74.49	58.28	2.48
4.00	34.00	4.72	1.25	30.00	65.04	46.76	2.43
6.00	36.00	4.75	1.26	35.00	61.86	45.54	2.42
8.00	38.00	4.77	1.25	40.00	58.66	43.62	2.43
10.00	40.00	4.77	1.24	45.00	62.82	41.15	2.44
15.00	45.00	4.75	1.24	49.00	62.74	40.69	2.45
19.00	49.00	4.72	1.23	53.00	59.34	40.12	2.47
23.00	53.00	4.69	1.20	57.00	55.11	40.91	2.50
31.00	61.00	5.04	1.19	61.00	51.93	41.11	2.55
39.00	69.00	5.21	1.17	65.00	50.11	39.64	2.58
51.00	81.00	5.29	1.22	69.00	48.56	38.35	2.62
61.00	91.00	5.51	1.37	73.00	47.39	36.57	2.65
67.00	97.00	5.71	1.44	81.00	45.06	33.06	2.70
70.00	100.00	5.80	1.46	85.00	44.27	31.87	2.74
85.00	115.00	5.84	1.41	92.50	43.42	30.32	2.89
92.50	122.50	5.90	1.24	96.25	43.22	30.02	2.98
100.00	130.00	5.93	1.12	100.00	42.87	30.05	3.06

Electrical Schematic



Mini-Circuits
ISO 9001 ISO 14001 AS 9100 CERTIFIED

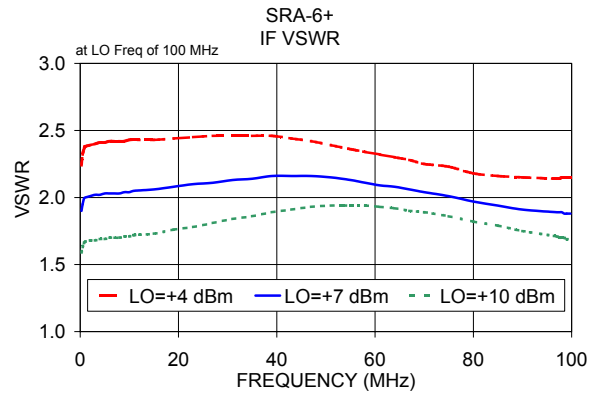
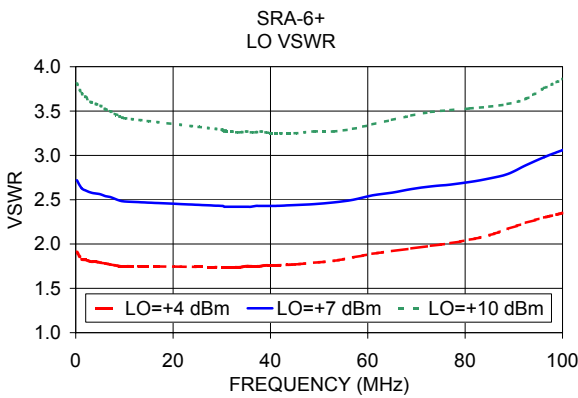
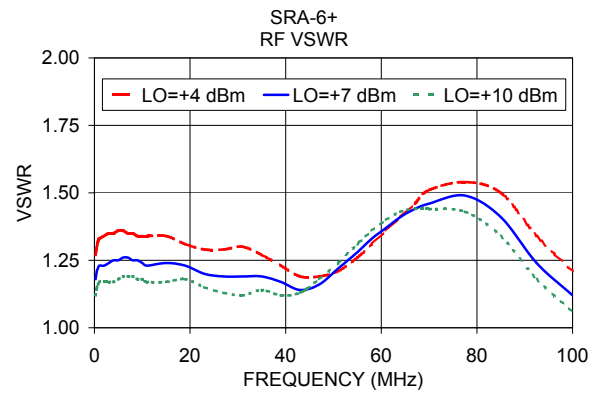
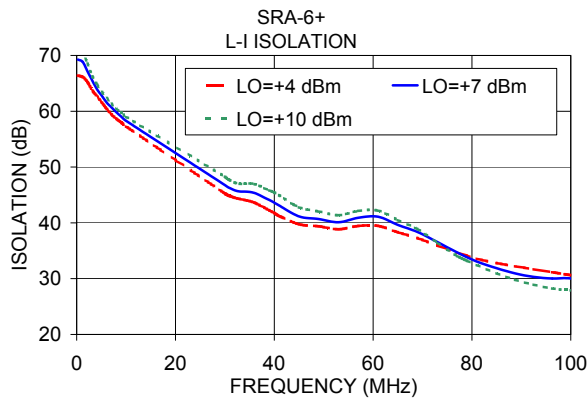
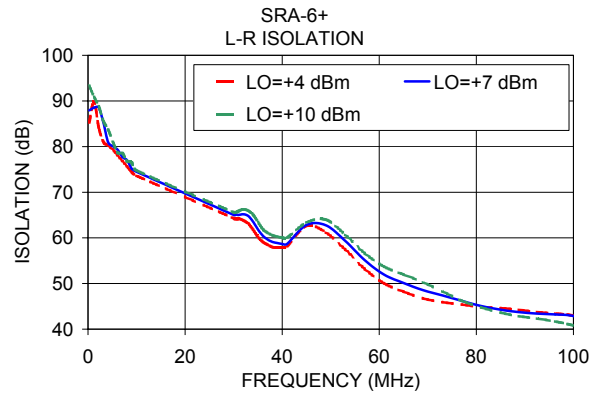
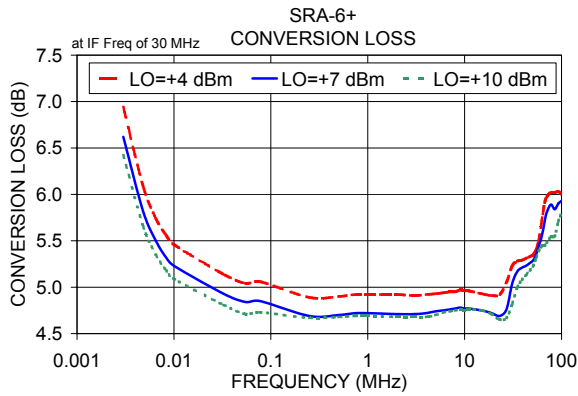
For detailed performance specs & shopping online see web site

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