

Plug-In Frequency Mixer

SRA-6+

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

Maximum Ratings

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

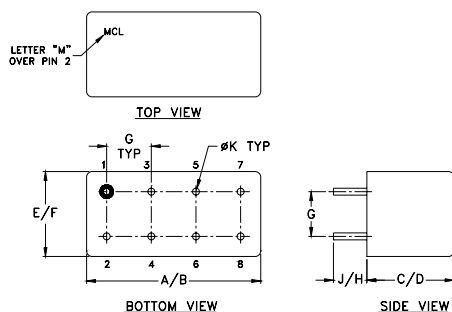
Permanent damage may occur if any of these limits are exceeded.

Pin Connections

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

^ pins must be connected together externally

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

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



Generic photo used for illustration purposes only

CASE STYLE: A01

+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)					
LO/RF f_L - f_U	IF	Mid-Band m		Total Range Max.		L		M		U		L		M		U	
		$\bar{X}$	σ	Max.	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	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

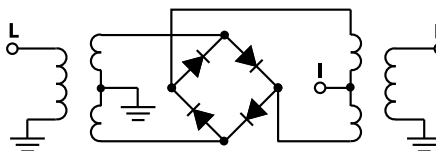
1 dB COMP.: +1 dBm typ.

L = low range [f_L to $10 f_L$] M = mid 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)	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 +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



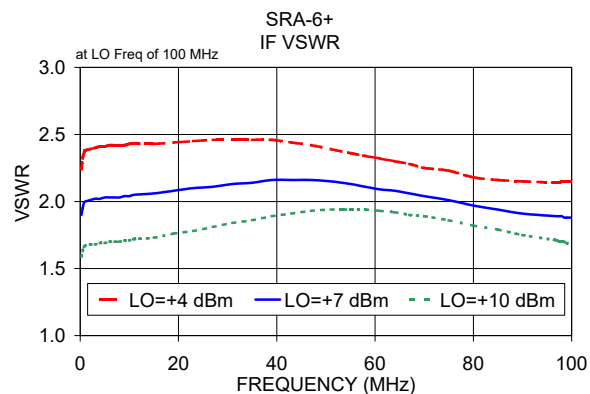
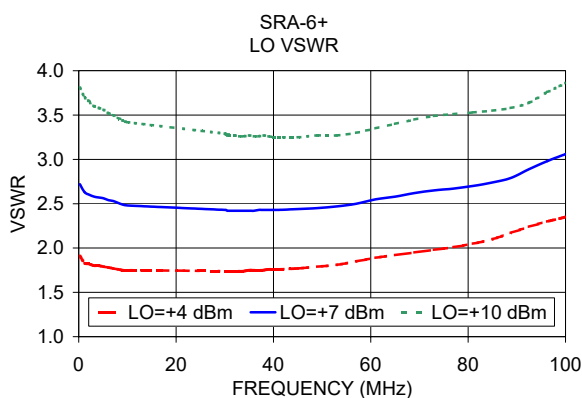
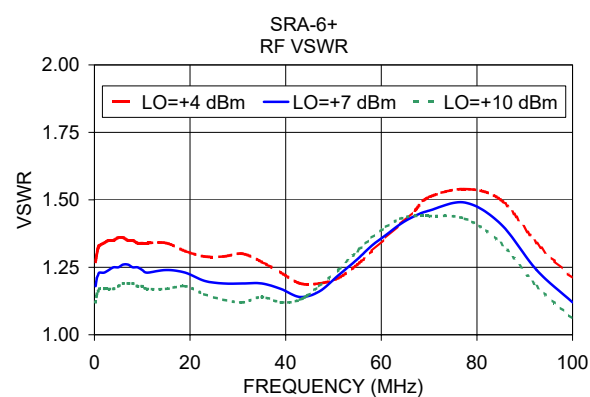
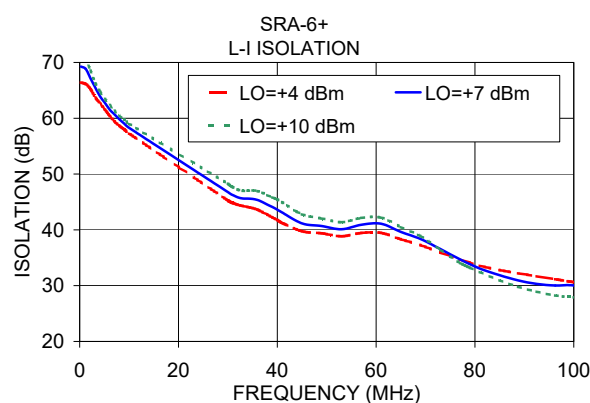
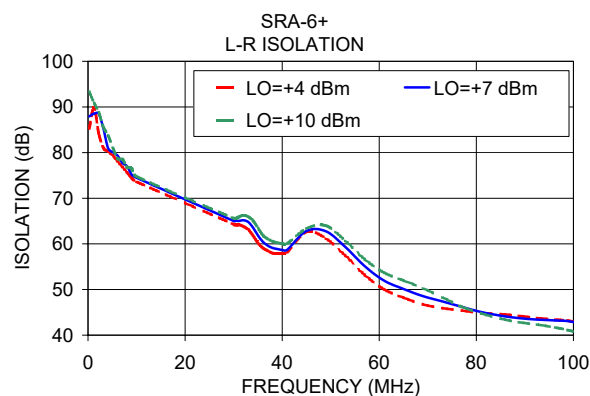
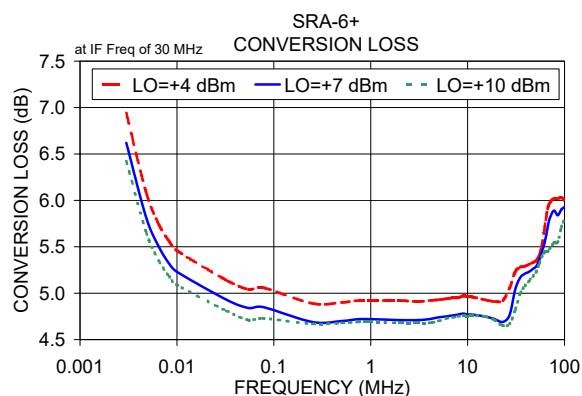
Notes

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