

Plug-In Frequency Mixer

SRA-2+

Level 7 (LO Power +7 dBm) 1 to 1000 MHz

Maximum Ratings

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

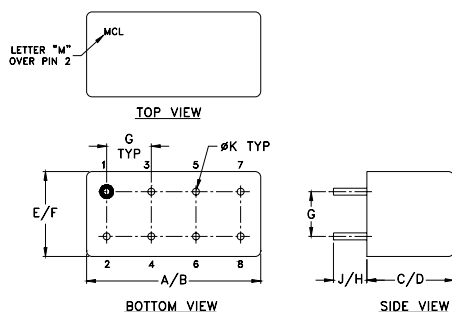
Permanent damage may occur if any of these limits are exceeded.

Pin Connections

LO	8
RF	3,4 [^]
IF	1
GROUND	2,5,6,7
CASE 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		
5.08	5.08	3.56	0.79		grams
					5.2

Features

- excellent conversion loss, 5.66 dB typ.
- good L-R isolation, 35 dB typ. L-I isolation, 30 dB typ.
- rugged welded construction
- hermetic

Applications

- UHF/VHF
- cellular
- defense & federal communications
- ISM/GSM



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.
1-1000	.5-500	5.66	.07	7.5	8.5	45	30	35	20	30	20	45	30	30	20	30	20

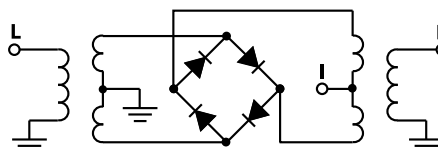
1 dB COMP.: +1 dBm typ.

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]

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
1.00	31.00	5.81	62.40	66.60	1.73	3.13
10.00	40.00	5.74	67.00	67.00	1.73	2.99
20.00	50.00	5.87	63.37	67.00	1.73	3.08
50.00	80.00	5.77	55.36	58.05	1.74	2.94
100.00	70.00	5.79	49.04	52.36	1.80	2.86
160.32	130.32	5.85	45.18	48.76	1.86	2.78
200.00	170.00	5.92	43.67	47.23	1.97	2.72
284.57	254.57	5.95	41.08	44.56	2.06	2.74
346.69	316.69	6.00	39.04	43.59	2.17	2.74
408.82	378.82	6.15	36.94	43.85	2.23	2.85
500.00	470.00	6.25	35.65	41.57	2.21	2.86
533.07	503.07	6.19	34.41	42.87	2.11	2.92
595.20	565.20	5.96	33.15	37.76	1.98	2.94
688.39	658.39	5.57	31.77	38.59	1.78	3.02
750.51	720.51	5.59	30.90	40.39	1.66	3.13
800.00	770.00	5.60	30.50	41.73	1.56	3.33
843.70	813.70	5.64	30.24	41.84	1.55	3.40
905.83	875.83	5.62	28.94	47.26	1.57	3.45
967.95	937.95	5.81	28.12	35.84	1.56	3.47
1000.00	970.00	6.10	27.73	32.72	1.41	3.30

Electrical Schematic



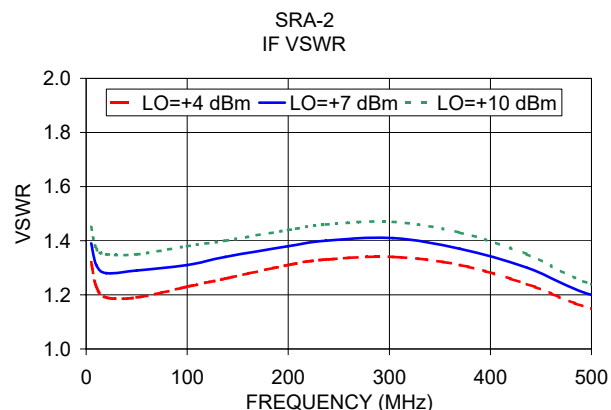
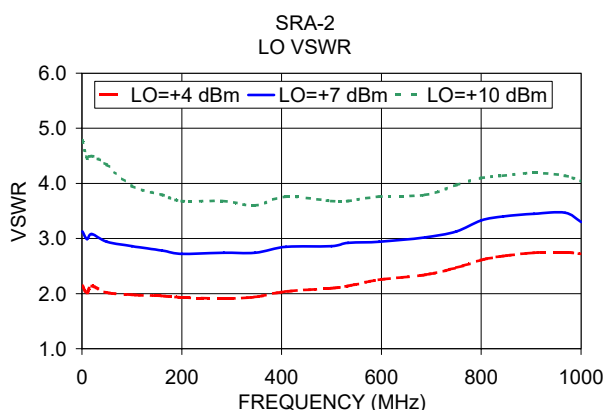
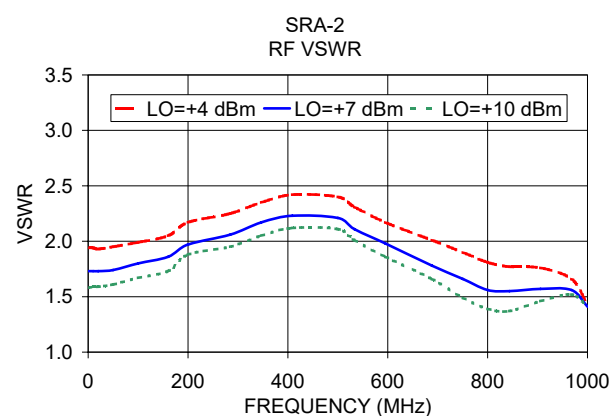
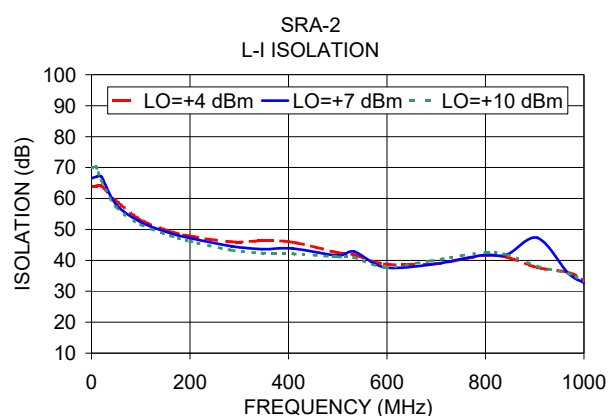
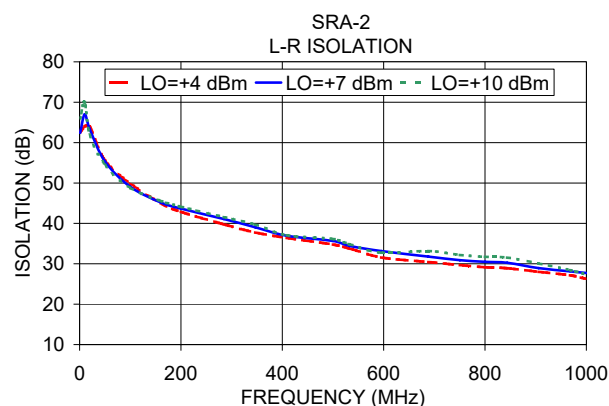
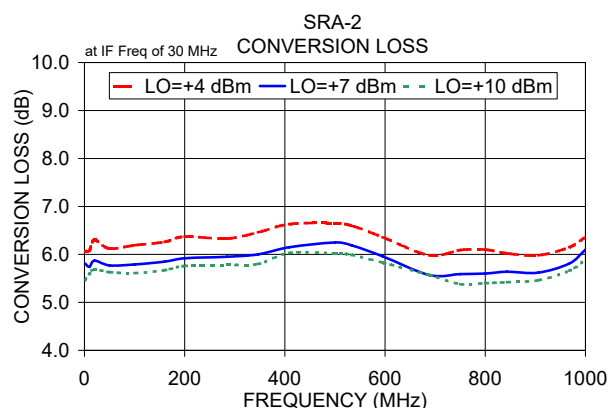
Notes

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