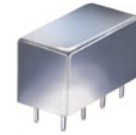


Plug-In Frequency Mixer

SRA-1WH

Level 17 (LO Power +17 dBm) 1 to 750 MHz



CASE STYLE: A01

Maximum Ratings

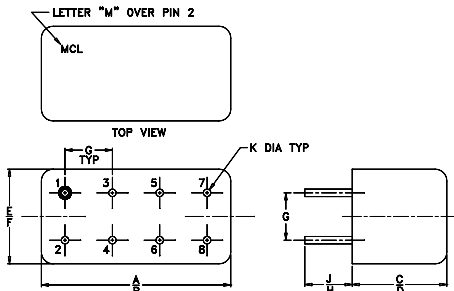
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power	200mW
IF Current	40mA

Pin Connections

LO	8
RF	1
IF	3,4 [^]
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	grams	
5.08	5.08	3.56	0.79	5.2	

Features

- excellent conversion loss, 5.85 dB typ.
- high L-R isolation, 45 dB typ. L-I isolation, 40 dB typ.
- rugged welded construction
- hermetic

Applications

- VHF/UHF
- defense & federal communications
- instrumentation

Electrical Specifications

FREQUENCY (MHz)		CONVERSION LOSS (dB)				LO-RF ISOLATION (dB)						LO-IF ISOLATION (dB)					
LO/RF	IF	Mid-Band		Total Range	Max.	L		M		U		L		M		U	
f_L - f_U		\bar{X}	σ			Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.
1-750	DC-750	5.85	.11	7.5	8.5	50	40	45	25	35	25	45	35	40	30	30	20

1 dB COMP.: +10 dBm typ.

L = low range [f_L to $10 f_L$]

m = mid band [$2 f_L$ to $f_U/2$]

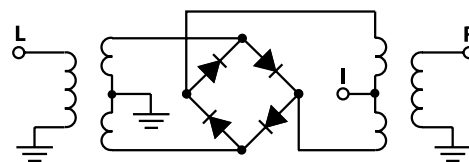
M = mid range [$10 f_L$ to $f_U/2$]

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 +17dBm	LO +17dBm	LO +17dBm	LO +17dBm	LO +17dBm
1.00	31.00	6.91	59.17	55.91	1.21	2.46
5.00	35.00	6.06	55.98	51.59	1.10	2.36
20.00	50.00	5.98	56.29	51.86	1.05	2.36
50.00	80.00	5.98	56.10	51.57	1.04	2.38
75.90	45.90	5.94	55.67	51.09	1.05	2.39
100.87	70.87	5.88	54.02	49.21	1.07	2.27
150.80	120.80	5.94	48.90	45.61	1.08	2.23
225.70	195.70	6.05	44.92	42.84	1.10	2.29
250.67	220.67	5.93	43.34	41.39	1.13	2.30
275.64	245.64	5.92	41.46	40.34	1.17	2.32
350.54	320.54	6.22	40.96	39.92	1.21	2.29
400.47	370.47	6.34	38.85	39.12	1.22	2.23
450.41	420.41	6.25	35.90	35.56	1.24	2.34
500.00	470.00	6.34	35.92	33.02	1.23	2.35
525.31	495.31	6.71	36.74	33.42	1.23	2.37
575.24	545.24	7.06	37.19	34.02	1.23	2.38
625.18	595.18	6.59	37.15	33.53	1.27	2.33
675.11	645.11	6.45	35.08	31.94	1.37	2.38
725.04	695.04	6.86	34.11	30.41	1.54	2.36
750.00	720.00	6.96	34.12	26.97	1.78	2.28

Electrical Schematic



Performance Charts

SRA-1WH

