

Plug-In Frequency Mixer

SRA-12+

Level 7 (LO Power +7 dBm) 800 to 1250 MHz

Maximum Ratings

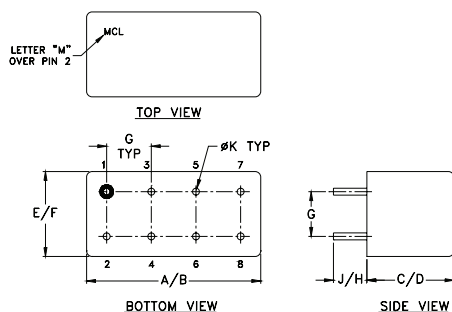
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power	50mW
IF Current	40mA

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

Pin Connections

LO	8
RF	1
IF	3
GROUND	2,5,6,7
CASE GROUND	2,5,6,7
NOT USED	4

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F
.770	.800	.285	.310	.370	.400
19.56	20.32	7.24	7.87	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, 6.21 dB typ.
- good L-R isolation, 35 dB typ. L-I isolation, 30 dB typ.
- rugged welded construction
- hermetic

Applications

- GPS
- cellular
- GSM



CASE STYLE: A06
PRICE: \$35.20 ea. QTY (1-9)

+RoHS Compliant

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

Electrical Specifications

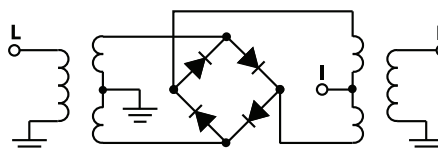
FREQUENCY (MHz)		CONVERSION LOSS (dB)				LO-RF ISOLATION (dB)		LO-IF ISOLATION (dB)	
LO/RF	IF	Mid-Band							
$f_L - f_U$		$\bar{X}$	σ	Max.	Total Range Max.	Typ.	Min.	Typ.	Min.
800-1250	50-90	6.21	.13	7.5	7.5	35	25	30	20

1 dB COMP.: +1 dBm typ.

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
800.00	730.00	6.67	33.42	34.21	2.64	1.93
835.53	765.53	6.56	32.78	33.92	2.58	1.88
871.05	801.05	6.57	32.33	33.41	2.53	1.87
894.72	824.74	6.41	32.16	33.06	2.46	1.84
918.42	848.42	6.31	32.06	32.78	2.43	1.82
942.10	872.10	6.33	32.10	32.59	2.29	1.81
965.79	895.79	6.29	32.20	32.33	2.20	1.79
989.47	919.47	6.18	32.44	32.15	2.13	1.77
1013.20	943.20	6.19	32.61	31.91	2.07	1.77
1036.80	966.80	6.24	33.00	31.84	2.04	1.77
1060.50	990.50	6.23	33.47	31.84	1.94	1.74
1072.40	1002.40	6.34	33.61	31.77	1.89	1.74
1096.10	1026.10	6.39	33.93	31.75	1.84	1.73
1119.70	1049.70	6.52	34.25	31.80	1.78	1.69
1143.40	1073.40	6.67	34.50	31.82	1.76	1.69
1167.10	1097.10	6.77	34.75	31.82	1.73	1.65
1190.80	1120.80	6.90	35.42	32.00	1.71	1.62
1214.50	1144.50	6.95	36.69	32.00	1.73	1.59
1238.20	1168.20	7.04	38.41	33.59	1.73	1.57
1250.00	1180.00	7.00	39.24	34.65	1.75	1.51

Electrical Schematic



Mini-Circuits®
ISO 9001 ISO 14001 AS 9100 CERTIFIED

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicircuits.com

IF/RF MICROWAVE COMPONENTS

For detailed performance specs & shopping online see web site

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