

Plug-In Frequency Mixer

Level 10 (LO Power +10 dBm) 0.05 to 2000 MHz

Maximum Ratings

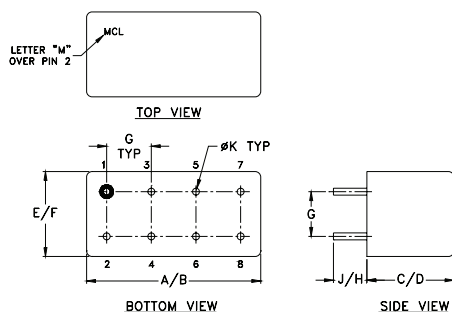
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power	50mW
IF Current	40mA

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	.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

- wideband, 0.05 to 2000 MHz
- low conversion loss, 5.59 dB typ.
- high L-R isolation, L-I isolation, 40 dB typ.
- hermetic, metal case

Applications

- GPS
- cellular
- defense & aeronautical systems
- military, hi-rel applications

SRA-220+



CASE STYLE: A01
PRICE: \$36.20 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 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.
0.05-2000	.05-500	5.59	.11	8.0	9.0	25	20	40	30	30	20	25	20	40	30	25	15

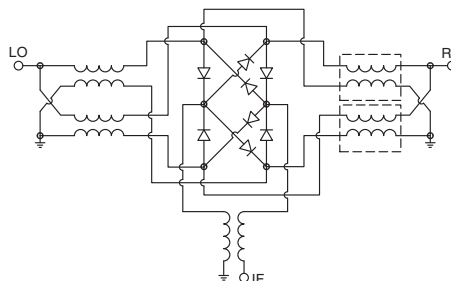
1 dB COMP.: +5 dBm typ.

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 +10dBm	LO +10dBm	LO +10dBm	LO +10dBm	LO +10dBm
0.05	30.05	6.31	20.56	20.32	1.42	1.38
1.00	31.00	5.23	37.02	35.22	1.42	1.38
5.00	35.00	5.34	41.42	40.80	1.44	1.34
20.00	50.00	5.57	42.73	42.42	1.45	1.41
50.00	80.00	5.59	42.75	42.09	1.44	1.37
100.00	70.00	5.50	42.49	40.87	1.49	1.34
153.89	123.89	5.49	42.03	38.92	1.63	1.30
230.81	200.81	5.78	41.75	36.48	2.03	1.24
307.73	277.73	5.75	41.49	34.62	2.73	1.22
500.00	470.00	5.97	38.13	32.70	3.06	1.24
615.42	585.42	6.37	40.61	34.50	3.23	1.30
692.34	662.34	6.90	42.63	35.22	3.35	1.25
846.18	816.12	7.39	40.51	34.89	2.98	1.34
1076.90	1047.20	7.31	36.30	27.82	2.40	1.38
1230.80	1200.80	6.91	32.05	23.22	1.60	1.36
1307.70	1277.80	6.81	30.96	21.56	1.20	1.31
1461.50	1431.70	7.49	24.40	19.73	1.04	1.35
1615.40	1585.50	7.29	34.31	19.71	1.19	1.37
1769.20	1739.20	7.80	38.84	18.84	1.31	1.43
2000.00	1970.30	8.89	31.97	19.56	1.41	1.56

Electrical Schematic



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

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