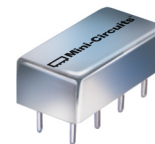


Plug-In Frequency Mixer

Level 7 (LO Power +7 dBm) 5 to 2000 MHz

SBL-11+



CASE STYLE: A06
PRICE: \$24.85 ea. QTY (10)

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

Features

- broadband 5 to 2000 MHz
- good conversion loss, 7.08 dB typ.
- rugged welded construction

Applications

- VHF/UHF
- GPS
- defense & satellite communications

+RoHS Compliant

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

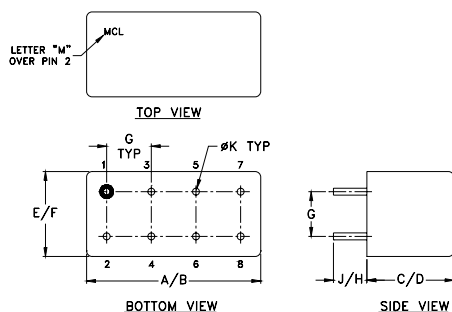
Electrical Specifications

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			Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.
5-2000	10-600	7.08	.11	8.5	9.0	50	45	35	25	30	20	45	40	30	20	25	15

1 dB COMP.: +1 dBm typ.

L = low range [f_L to 10 f_L]
m = mid band [$2f_L$ to $f_U/2$]
M = mid range [10 f_L to $f_U/2$]
U = upper range [$f_U/2$ to f_U]

Outline Drawing



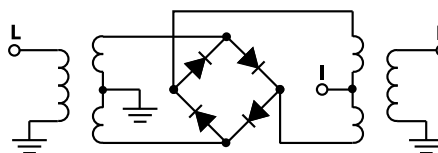
Outline Dimensions (inch)

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	

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
5.00	35.00	5.85	46.19	67.00	3.19	3.03
10.00	40.00	5.88	46.23	67.00	2.54	2.69
20.00	50.00	6.11	46.26	67.00	2.45	2.70
50.00	80.00	6.37	45.89	67.00	2.62	2.61
100.00	70.00	6.25	44.70	64.66	2.96	2.46
200.00	170.00	6.62	41.17	55.90	3.21	2.31
311.92	281.92	6.71	38.72	50.11	3.31	2.27
465.39	435.39	7.06	37.94	46.15	3.42	2.13
618.85	588.85	7.40	38.38	45.38	3.19	2.08
772.31	742.31	7.53	38.07	45.67	2.96	1.93
849.04	819.04	7.22	37.13	43.78	2.41	1.73
1000.00	970.00	7.05	36.28	38.27	2.10	1.58
1156.00	1126.00	6.76	35.18	43.23	1.86	1.45
1386.20	1356.20	7.53	41.65	38.52	2.12	1.17
1462.90	1432.90	7.62	41.43	41.57	2.27	1.17
1500.00	1470.00	7.48	41.94	42.71	2.19	1.32
1616.40	1586.40	6.96	43.41	43.97	2.08	1.39
1800.20	1770.00	6.79	41.03	38.23	1.87	1.59
1923.30	1893.30	6.64	38.49	30.27	1.79	1.70
2000.00	1970.00	6.69	39.35	27.98	1.67	1.74

Electrical Schematic



Mini-Circuits®
ISO 9001 ISO 14001 AS 9100 CERTIFIED

For detailed performance specs & shopping online see web site

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

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuits' applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp.

REV. A
M98898
SBL-11
DJ/TD/CP
130501
Page 1 of 2

