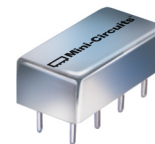


Plug-In Frequency Mixer

Level 7 (LO Power +7 dBm) 0.025 to 200 MHz

SBL-3+



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	3,4 [^]
GROUND	2,5,6,7
CASE GROUND	2

[^] pins must be connected together externally

Features

- excellent conversion loss, 4.81 dB typ.
- high L-R isolation, 45 dB typ. L-I isolation, 40 dB typ.
- rugged welded construction

Applications

- VHF
- defense & federal communications

CASE STYLE: A06
PRICE: \$12.40 ea. QTY (10)

+RoHS Compliant

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

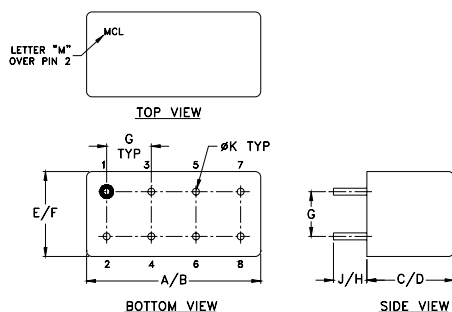
Electrical Specifications

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.
.025-200	DC-200	4.81	.05	7.5	8.5	55	50	45	30	35	25	45	35	40	30	30	20

1 dB COMP.: +1 dBm typ.

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

Outline Drawing



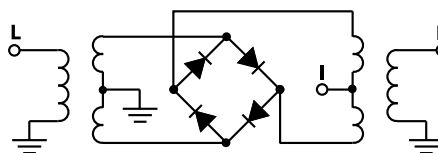
Outline Dimensions (inch mm)

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

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	
		LO	LO	LO	LO	LO	LO	LO	LO	LO	LO
0.03	30.03	8.41	70.32	73.42	1.44	1.33					
0.04	30.04	6.80	68.24	73.04	1.45	1.32					
0.05	30.05	6.31	68.06	73.56	1.45	1.29					
0.10	30.10	5.51	67.57	74.37	1.44	1.28					
0.20	30.20	5.27	67.72	74.82	1.43	1.34					
0.50	30.50	5.15	67.66	75.16	1.43	1.35					
1.00	31.00	4.98	67.06	74.46	1.43	1.37					
2.00	32.00	4.89	66.83	74.03	1.42	1.37					
5.00	35.00	4.86	66.56	72.56	1.40	1.36					
10.00	40.00	4.93	66.04	69.54	1.39	1.36					
20.00	50.00	5.06	64.65	63.95	1.37	1.35					
30.79	60.79	5.13	63.14	60.24	1.35	1.36					
38.48	68.48	5.16	62.80	57.90	1.33	1.36					
50.00	80.00	5.09	61.63	53.78	1.29	1.39					
76.94	46.94	4.97	58.56	48.75	1.26	1.41					
100.00	70.00	4.81	58.22	46.67	1.26	1.45					
123.09	93.09	4.85	52.38	44.01	1.22	1.49					
146.16	116.16	4.94	58.82	46.22	1.19	1.51					
176.93	146.93	5.26	51.25	39.55	1.17	1.55					
200.00	170.00	5.36	44.86	38.02	1.18	1.60					

Electrical Schematic



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IF/RF MICROWAVE COMPONENTS

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