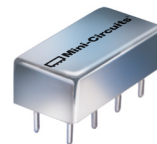


Plug-In Frequency Mixer

Level 13 (LO Power +13 dBm) 2 to 1100 MHz

SBL-1ZMH+



CASE STYLE: A06
PRICE: \$16.45 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	1
RF	8
IF	3
GROUND	2,5,6,7
CASE GROUND	2,5,6,7
NOT USED	4

Features

- conversion loss, 6.63 dB typ.
- broadband 2 to 1100 MHz
- rugged welded construction

Applications

- VHF
- defense & federal communications

+RoHS Compliant

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

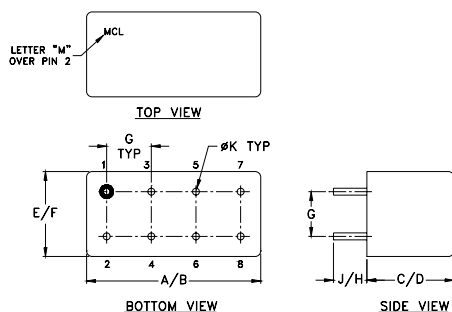
Electrical Specifications

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	Max.	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.
2-1100	DC-500	6.63	.10	8.0	9.0	50	40	40	30	30	20	40	30	25	20	25	15

1 dB COMP.: +9 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]

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 +13dBm	LO +13dBm	LO +13dBm	LO +13dBm	LO +13dBm
2.00	32.00	7.47	70.78	65.58	1.79	2.25
4.00	34.00	6.83	70.28	59.74	1.74	2.13
5.00	35.00	6.65	70.18	57.88	1.74	2.10
10.00	40.00	6.27	70.01	52.36	1.81	1.95
20.00	50.00	6.18	69.85	46.22	1.76	1.97
50.00	80.00	6.15	69.63	39.08	1.77	1.93
100.00	70.00	6.15	67.71	33.80	1.75	1.86
119.64	89.64	6.08	67.73	32.85	1.59	1.84
200.00	170.00	6.34	74.27	29.38	1.53	1.91
276.50	246.50	6.71	67.53	27.35	1.50	1.97
433.36	403.36	6.85	51.02	25.68	1.68	2.06
500.00	470.00	6.21	49.19	26.25	1.83	2.12
550.00	520.00	5.99	53.13	26.35	1.90	2.16
590.21	560.21	5.95	51.95	27.35	1.95	2.29
747.07	717.07	6.91	45.36	31.35	1.82	2.36
903.93	873.93	7.63	45.31	33.05	1.52	2.24
1000.00	970.00	7.69	42.04	30.24	1.80	2.24
1021.57	991.57	7.87	40.76	30.36	2.02	2.28
1060.79	1030.79	8.11	35.87	30.40	2.24	2.25
1100.00	1070.00	8.49	32.15	34.03	2.55	2.16

Electrical Schematic

