

Plug-In

Frequency Mixer

Level 10 (LO Power +10dBm) 50 to 1000

TUF-2LH+



CASE STYLE: B02
PRICE: \$11.20 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	4
RF	1
IF	2
GROUND	3
CASE GROUND	3

Features

- low conversion loss, 5.9 dB typ.
- high isolation, 44 dB typ. L-R, 50 dB typ. L-I
- wideband, 50 to 1000 MHz
- rugged welded construction

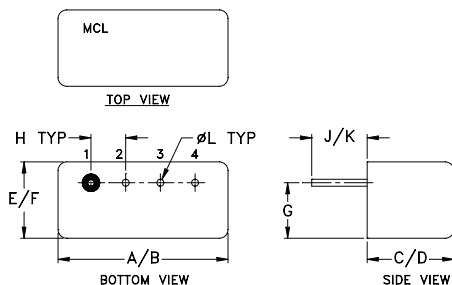
Applications

- VHF/UHF
- cellular ISM/GSM

+RoHS Compliant

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

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F
.480	.500	.240	.255	.210	.230
12.19	12.70	6.10	6.48	5.33	5.84
G	H	J	K	L	wt
.16	.100	.14	.20	.020	grams
4.06	2.54	3.56	5.08	0.51	1.9

Electrical Specifications

FREQUENCY (MHz)		CONVERSION LOSS (dB)				LO-RF ISOLATION (dB)						LO-IF ISOLATION (dB)					
LO/RF	IF	Mid-Band m		Total Range		L	M	U				L	M	U			
f_L - f_U		$\bar{X}$	σ	Max.	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.
50-1000	DC-1000	5.9	0.30	7.0	8.5	58	40	44	30	39	25	60	35	50	25	38	20

1 dB COMP: +5 dBm typ.

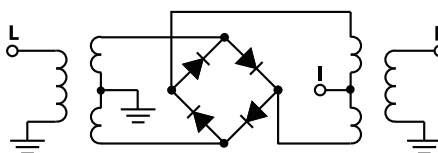
L = 50-100 MHz M = 100-500 MHz U = upper range [$f_U/2$ to f_U]

m = mid band [$2f_L$ to $f_U/2$]

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 +10dBm	LO +10dBm	LO +10dBm	LO +10dBm	LO +10dBm
5.00	35.00	5.97	52.74	87.33	1.25	2.82
10.00	40.00	5.89	52.59	81.78	1.18	2.63
20.00	50.00	5.90	52.51	76.47	1.16	2.68
50.00	80.00	5.96	52.73	68.83	1.18	2.62
95.45	65.45	6.01	52.59	68.37	1.19	2.50
100.00	70.00	6.04	52.35	67.59	1.21	2.50
185.91	155.91	5.82	52.03	63.99	1.22	2.40
200.00	170.00	5.77	52.24	62.23	1.23	2.48
276.36	246.36	5.75	51.93	58.87	1.23	2.38
366.82	336.82	5.81	52.59	53.25	1.22	2.39
457.27	427.27	5.88	47.42	55.40	1.21	2.42
487.42	457.42	5.91	45.90	49.79	1.20	2.42
500.00	470.00	5.94	48.30	46.54	1.19	2.43
547.73	517.73	6.07	57.22	40.10	1.18	2.44
638.18	608.18	6.63	48.69	37.95	1.15	2.49
728.64	698.64	7.20	42.92	36.76	1.11	2.47
819.09	789.09	7.24	41.04	32.27	1.05	2.47
909.55	879.55	7.27	41.87	29.47	1.15	2.57
969.85	939.85	7.69	44.77	28.21	1.30	2.60
1000.00	970.00	7.81	50.08	26.90	1.38	2.59

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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Page 1 of 2

