

Plug-In

Frequency Mixer

Level 17 (LO Power +17 dBm) 2 to 600 MHz

TUF-1H+



CASE STYLE: B02
PRICE: \$13.20 ea. QTY (10)

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power	200mW
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

- wideband, 2 to 600 MHz
- low conversion loss, 5.90 dB typ.
- high L-R isolation, 50 dB typ.
- rugged welded construction

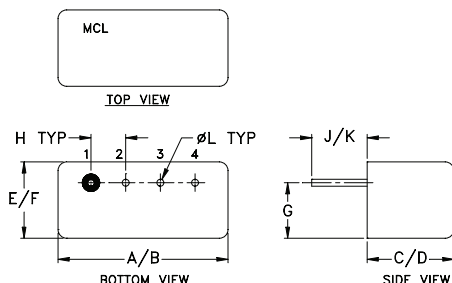
Applications

- VHF/UHF
- transmitters/receivers
- defense & federal communications

+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)						IP3 at center band (dBm)
LO/RF f_L - f_U	IF	Mid-Band m		Total Range Max.		L		M		U		L		M		U		
		$\bar{X}$	σ	Max.		Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	
2-600	DC-600	5.90	0.18	7.0	8.0	68	50	50	30	43	25	62	45	48	30	33	22	26

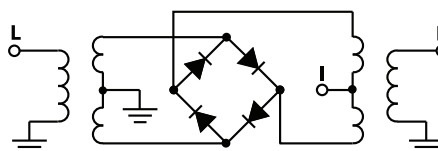
1 dB COMP.: +14 dBm typ.

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 [$2f_L$ 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 +17dBm	LO +17dBm	LO +17dBm	LO +17dBm	LO +17dBm
2.00	32.00	6.30	62.98	52.28	1.22	1.67
5.00	35.00	5.95	62.06	52.79	1.10	1.60
10.00	40.00	5.92	60.47	52.35	1.03	1.63
20.00	50.00	5.91	57.14	51.13	1.02	1.61
34.13	64.13	5.81	53.27	49.30	1.04	1.58
50.00	80.00	5.72	50.24	47.27	1.06	1.57
66.26	96.26	5.66	48.03	45.61	1.07	1.55
82.33	112.33	5.71	46.33	44.27	1.08	1.54
100.00	130.00	5.63	44.99	43.26	1.09	1.57
130.52	160.52	5.61	43.18	41.91	1.10	1.55
162.65	192.65	5.61	41.46	40.45	1.10	1.55
200.00	240.00	5.60	40.12	39.22	1.08	1.60
259.04	299.04	5.42	38.10	37.51	1.07	1.67
307.24	347.24	5.62	37.54	36.13	1.06	1.70
355.43	395.43	5.86	37.41	36.94	1.05	1.76
387.56	437.56	5.92	36.35	35.99	1.04	1.82
435.76	485.76	5.81	35.35	33.91	1.05	1.84
467.89	507.89	5.90	36.34	33.81	1.06	1.85
483.95	523.95	6.08	36.44	33.54	1.08	1.87
500.00	540.00	6.27	36.27	33.21	1.09	1.90
600.00	670.00	6.18	36.36	33.38	1.09	1.89

Electrical Schematic



Mini-Circuits®
ISO 9001 ISO 14001 AS 9100 CERTIFIED

For detailed performance specs & shopping online see web site

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IF/RF MICROWAVE COMPONENTS

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