Frequency Mixer

TFM-2H+

Generic photo used for illustration purposes only

CASE STYLE: B02

+RoHS Compliant

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

Maximum Ratings

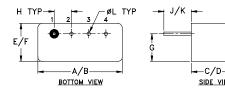
3-	
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power	200mW
IF Current	40mA
Permanent damage may occur if any of t	thaca limite are eveneded

Pin Connections

LO	4
RF	1
ĪF	2
GROUND	3
CASE GROUND	3

Outline Drawing





Outline Dimensions (inch)

F	Е	D	С	В	Α
.230	.210	.255	.240	.500	.480
5.84	5.33	6.48	6.10	12.70	12.19
wt	L	K	J	Н	G
grams	.020	.20	.14	.100	.16
1 0	0.51	5.08	3 56	2.54	4.06

Features

Level 17 (LO Power +17 dBm) 5 to 1000 MHz

- low conversion loss, 6.12 dB typ.
- wideband, 5 to 1000 MHz
- good L-R isolation, 40 dB typ.
- rugged welded construction
- · hermetically sealed

Applications

- VHF/UHF
- aviation
- cellular
- ISM/GSM

Electrical Specifications

FREQUENCY (MHz)		CONVERSION LOSS (dB)			LO-RF ISOLATION (dB)				LO-IF ISOLATION (dB)									
	LO/RF	IF		Mid-Band m	I	Total		L	N	Л	ι	J		L	N	Л	ι	J
	f_L - f_U		X	σ	Max.	Range Max.	Тур.	Min.	Тур.	Min.	Тур.	Min.	Тур.	Min.	Тур.	Min.	Тур.	Min.
	5-1000	DC-1000	6.12	0.12	7.0	10.0	50	45	40	30	30	20	45	40	35	25	25	17

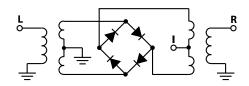
1 dB COMP.: +14 dBm typ.

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

Typical Performance Data

	luency /IHz)	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		
5.00 35.15 65.30 125.61 185.91 216.06 276.37 336.67 396.98 457.28 517.58 547.74 608.04 668.34 728.65	35.00 65.15 95.30 95.61 155.91 186.06 246.37 306.67 366.98 427.28 487.58 517.74 578.04 638.34 698.65 758.95 819.26	5.75 5.75 5.78 5.83 5.83 5.87 5.70 5.62 5.78 6.15 5.88 5.91 6.36 6.50 6.30	73.03 53.95 47.75 45.94 41.73 40.07 37.49 35.70 35.50 33.92 34.70 35.38 34.75 34.53 33.69 32.39 32.23	64.57 50.91 44.94 42.85 38.74 37.26 34.59 32.97 32.29 30.55 29.07 29.45 28.29 27.06 25.41 25.21 24.28	1.24 1.10 1.10 1.09 1.09 1.10 1.11 1.11 1.12 1.13 1.15 1.15 1.16 1.17 1.20	1.51 1.53 1.52 1.44 1.43 1.39 1.38 1.40 1.37 1.36 1.37 1.38 1.38 1.38 1.38 1.38		
909.56 969.86 1000.00	879.56 939.86 970.00	8.59 8.55 8.57	32.46 32.66 32.20	23.91 24.30 24.05	1.34 1.46 1.62	1.52 1.54 1.53		

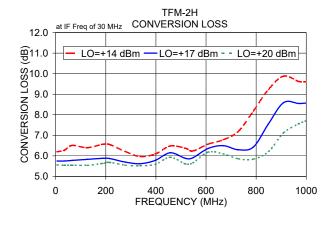
Electrical Schematic

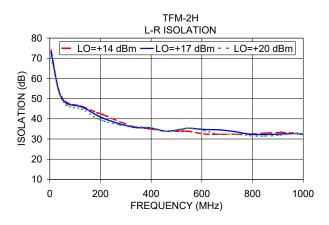


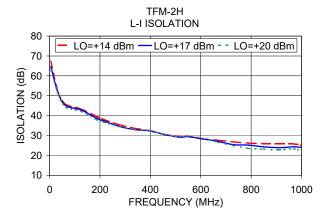
A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.

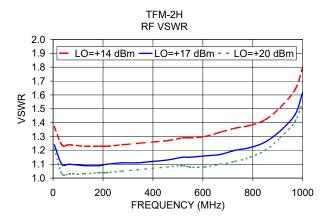
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

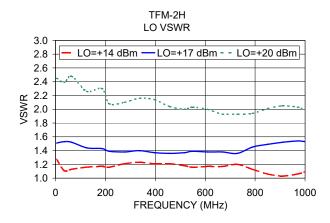
C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

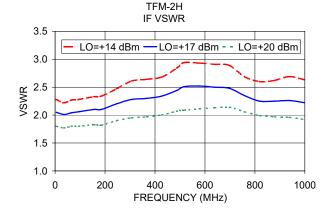












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