THP-1500+

 50Ω 1500 to 4000 MHz

The Big Deal

- Small size (0.25" x 0.25" x 0.10")
- Good matching
- Low insertion loss



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Product Overview

THP-1500+ is a 50Ω high pass filter fabricated using SMT technology. This high pass filter covers from 1500-4000 MHz. This series of filters are constructed in a tiny package offering dual advantage of superior lumped element filter performance in a space saving SMT package. These models are suitable for mass production without losing flexibility of small volume requirements. It has repeatable performance across lots and consistent performance across temperature.

Key Features

Feature	Advantages	
Low insertion loss	Can be used in high performance applications.	
Good rejection	This enables the filter to attenuate spurious signals and reject harmonics for broad frequency band.	
Small size, 0.25" x 0.25" x 0.10"	The small surface mount package enables the THP-1500+ to be used in compact designs.	

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"); Puchasers 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

High Pass Filter

 50Ω 1500 to 4000 MHz

THP-1500+



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Тур.

30

20

0.7

1.2

Max.

2.0

1.78

Unit

dB

٠1

dB

:1

Min.

20

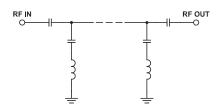
Features

- · Low insertion loss
- · Good matching
- Small size (0.25" x 0.25" x 0.10")

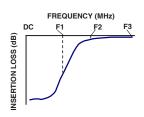
Applications

- · Mobile (Aeronautical telemetering)
- · Mobile satellite, maritime mobile satellite
- · Radio astronomy
- · Fixed mobile

Functional Schematic



Typical Frequency Response



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

Maximum Ratings Operating Temperature -40°C to 85°C -55°C to 100°C Storage Temperature RF Power Input 0.5 W max.

Parameter

VSWR

VSWR

Stop Band

Pass Band

Rejection Loss

Insertion Loss

Permanent damage may occur if any of these limits are exceeded.

Typical Performance Data at 25°C

Electrical Specifications at 25°C

F#

DC-F1

DC-F1

F2-F3

F2-F3

Frequency (MHz)

DC-1030

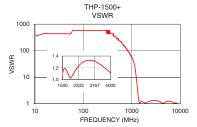
DC-1030

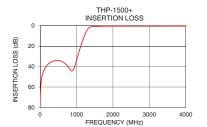
1500-4000

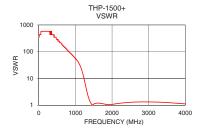
1500-4000

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
10	63.87	434.30
900	43.82	78.97
1030	30.14	49.64
1145	16.94	26.74
1230	8.69	10.75
1280	4.87	5.30
1325	2.56	2.86
1380	1.19	1.61
1500	0.59	1.11
1650	0.47	1.18
1780	0.39	1.10
1900	0.35	1.03
2000	0.33	1.07
2230	0.33	1.19
2570	0.35	1.30
2730	0.35	1.32
2910	0.35	1.33
3200	0.34	1.31
3800	0.29	1.17
4000	0.27	1.12









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