

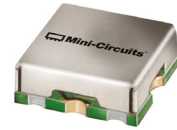
# Surface Mount High Pass Filter

## THP-1225+

50Ω 1225 to 4000 MHz

### The Big Deal

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



Generic photo used for illustration purposes only  
CASE STYLE: GQ1018

### Product Overview

THP-1225+ is a 50Ω high pass filter fabricated using SMT technology. This high pass filter covers from 1225 to 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 band frequency.
Small size, 0.25" X 0.25" X 0.10"	The small surface mount package enables the THP-1225+ to be used compact designs.

#### Notes

- 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.  
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### Features

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- Good matching
- Small size ( 0.25" X 0.25" 0.10" )

### Applications

- Radio navigation satellite
- Land mobile
- Space research

### Electrical Specifications at 25°C

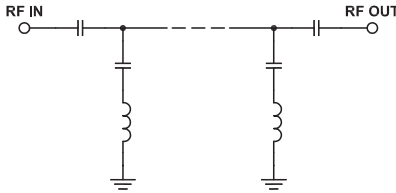
Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit	
Stop Band	Rejection Loss	DC-F1	DC-720	20	30	-	dB
	VSWR	DC-F1	DC-720	-	20	-	:1
Pass Band	Insertion Loss	F2-F3	1225-4000	-	0.5	2.0	dB
	VSWR	F2-F3	1225-4000	-	1.3	1.92	:1

### Maximum Ratings

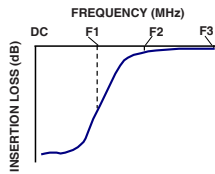
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5 W max.

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

### Functional Schematic



### Typical Frequency Response

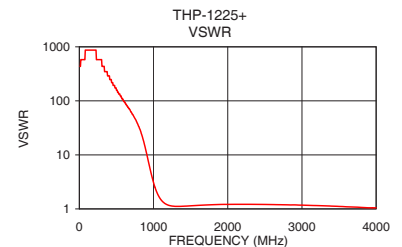
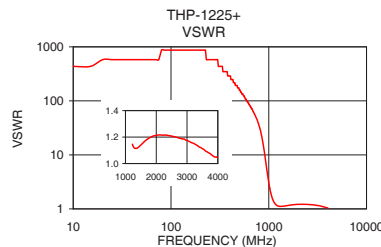
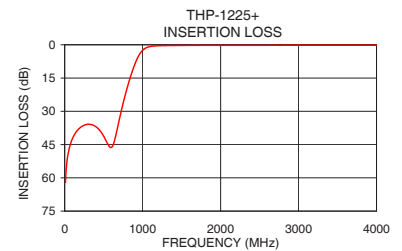
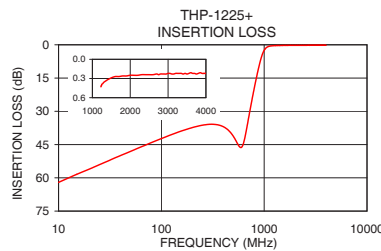


### Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
10	62.03	434.30
75	44.66	579.06
100	42.30	868.59
250	36.27	579.06
450	38.61	217.15
550	44.57	124.09
630	44.28	86.86
675	37.86	69.49
720	30.72	56.04
750	26.31	46.96
790	20.92	36.20
825	16.64	27.59
900	8.79	11.53
930	6.30	7.56
970	3.76	4.38
1050	1.29	1.96
1100	0.78	1.48
1225	0.43	1.15
3000	0.22	1.17
4000	0.22	1.05

### +RoHS Compliant

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



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