

# Coaxial High Pass Filter

## ZX75HP-180+

50Ω      300 to 2500 MHz

### The Big Deal

- Low insertion loss
- High rejection
- Connectorized package



CASE STYLE: KE1467

### Product Overview

ZX75HP-180+ is a High pass filter in a rugged connectorized package covering 300 to 2500 MHz. This filter will find its application in TV Broadcast, point-to-point military radio and cordless telephones. It has repeatable performance across production 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.
Connectorized package	The connectorized package is easy to interface with other devices and well suited for test setups.

#### 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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# Coaxial High Pass Filter

## ZX75HP-180+

50Ω 300 to 2500 MHz



CASE STYLE: KE1467

Connectors	Model
SMA-M/F	ZX75HP-180-S+

### Features

- Wide band, 300 MHz to 2500 MHz
- High rejection
- Connectorized package

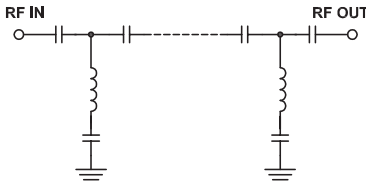
### Electrical Specifications at 25°C

Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit	
Stop Band	Rejection Loss	DC-F1	DC-130	20	30	-	dB
	VSWR	DC-F1	DC-130	-	62	-	:1
Pass Band	Insertion Loss	F2-F3	300-2500	-	0.5	1.5	dB
	VSWR	F2-F3	300-2500	-	1.4	-	:1

### Applications

- TV Broadcast
- Point-to-point military radio
- Cordless telephones

### Functional Schematic



### Maximum Ratings

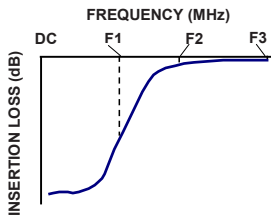
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5 W.

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

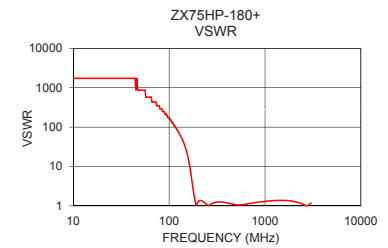
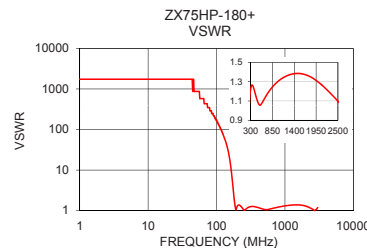
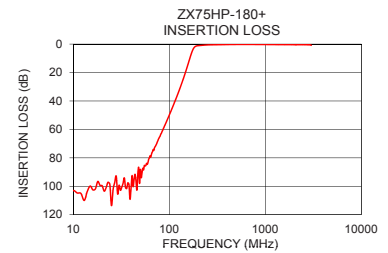
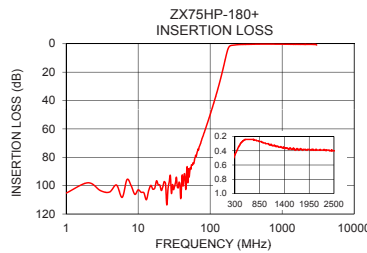
### Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1	105.26	1737.18
48	86.75	868.59
79	65.40	347.44
112	41.88	115.81
130	30.53	62.05
154	15.83	20.95
169	7.07	6.21
176	3.97	3.12
180	2.77	2.15
196	1.16	1.15
238	0.66	1.16
287	0.47	1.18
300	0.45	1.23
425	0.30	1.16
725	0.25	1.18
1075	0.32	1.33
1300	0.35	1.38
1900	0.39	1.33
2350	0.39	1.16
2500	0.40	1.10

### Typical Frequency Response



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



### Notes

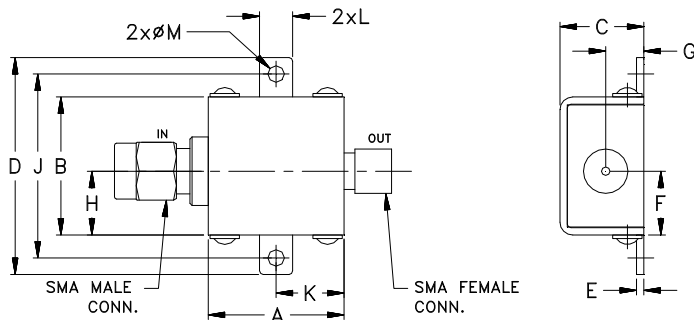
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## Coaxial Connections

INPUT	SMA-Male
OUTPUT	SMA-Female

## Outline Drawing



## Outline Dimensions ( $\frac{\text{inch}}{\text{mm}}$ )

A	B	C	D	E	F	G
0.74	.75	.46	1.18	.04	.349	.21
18.80	19.05	11.68	29.97	1.02	8.86	5.33
H	J	K	L	M	wt	
.349	1.00	.37	.18	.09	grams	
8.86	25.40	9.40	4.57	2.29	24.4	

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