# **Low Pass Filter**

ZX75LP-40-S+

 $50\Omega$ DC to 40 MHz

## **The Big Deal**

- · High rejection
- · Low Insertion loss, 1 dB typical in passband
- Fast roll-off
- Good VSWR
- Connectorized package



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## **Product Overview**

ZX75LP-40-S+ is a  $50\Omega$  low pass filter built in a connectorized package. Covering DC-40 MHz bandwidth, these units offer good matching within the passband and high rejection in stopband. This will find its applications in receivers and transmitters to suppress spurious emission and harmonics. It has repeatable performance across production lots and consistent performance across temperature.

# **Key Features**

Feature	Advantages
Low passband insertion loss	Suitable for high performance application
Fast roll-off	Provides very good adjacent band rejection
Connectorized package	The connectorized package is easy to interface with other devices and well suited for test setups
Good VSWR	Provides good interface when used with other devices.

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**Features** 

· High rejection

· Fast roll-off

Good VSWR

**Applications** 

· Low Insertion loss

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# ZX75LP-40-S+



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Connectors Model

SMA-M\F ZX75LP-40-S+

## Electrical Specifications at 25°C

Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC-40	_	1.0	2.0	dB
Pass Band	Freq. Cut-Off	F2	56	_	3.0	_	dB
	VSWR	DC-F1	DC-40	_	1.2	1.5	:1
Stop Band	Rejection Loss	F3-F4	71-3000	20	31	_	dB
	VSWR	F3-F4	71-3000	_	16	_	:1

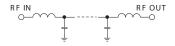
Maximum Ratings			
Operating Temperature	-40°C to 85°C		
Storage Temperature	-55°C to 100°C		
RF Power Input	0.5W max.		

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

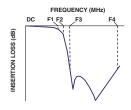
· Connectorized package

- Satellite
- · Wireless communications
- · Receivers / Transmitters

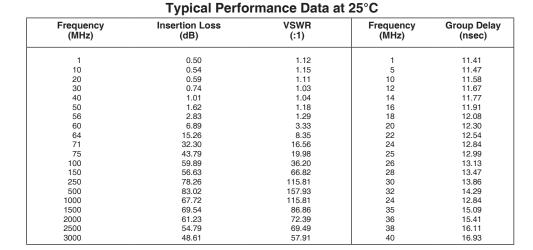
#### **Functional Schematic**

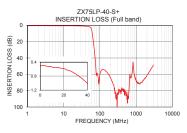


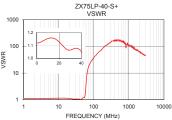
### **Typical Frequency Response**



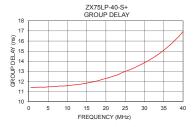
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Notes
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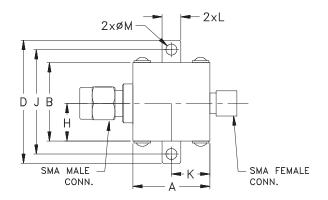
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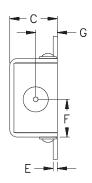
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#### **Coaxial Connections**

INPUT	SMA-Male		
OUTPUT	SMA-Female		

### **Outline Drawing**





## Outline Dimensions (inch mm)

Α	В	С	D	Е	F	G
.74	.75	.46	1.18	.04	.362	.21
18.80	19.05	11.68	29.97	1.02	9.19	5.33
Н		K		М		Wt.
	J		L			VVI.
.362	1.00	.37	.18	.11		grams
9.19	25.40	9.40	4.57	2.79		24.4

Note: Please refer to case style drawing for details

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