# **Low Pass Filter**

**ZX75LP-105+** 

 $50\Omega$ DC to 105 MHz

## The Big Deal

- · High rejection
- Low Insertion loss, 1.3 dB typical in passband
- Fast roll-off
- Good VSWR
- Connectorized package



### **Product Overview**

ZX75LP-105+ is a  $50\Omega$  low pass filter built in a connectorized package. Covering DC-105 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. This can also be used in wide-band down convertors and baseband circuitry. 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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# **Low Pass Filter**

 $50\Omega$ DC to 105 MHz

## ZX75LP-105+



CASE STYLE: KE1467

Connectors

Model ZX75LP-105-S+

## SMA-M\F

Electrical opecinications at 25 0							
Pa	rameter	F#	Frequency (MHz)	Min. Typ. Max.		Unit	
	Insertion Loss	DC-F1	DC -105	_	1.3	2.0	dB
Pass Band	Freq. Cut-Off	F2	115	_	3.0	_	dB
	VSWR	DC-F1	DC -105	_	1.2	1.6	:1
Stop Band	Rejection Loss	F3-F4	150 -1000	20	33	_	dB
Stop Band	VSWD	E2-E4	150 -1000		26		-1

Flectrical Specifications at 25°C

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.

#### **Applications**

Baseband

**Features** 

· High rejection

· Fast roll-off Good VSWR

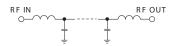
· Low Insertion loss

- · Harmonic rejection
- · Wideband down convertor

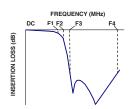
· Connectorized package

- Satellite
- · Wireless communications
- · Receivers / Transmitters

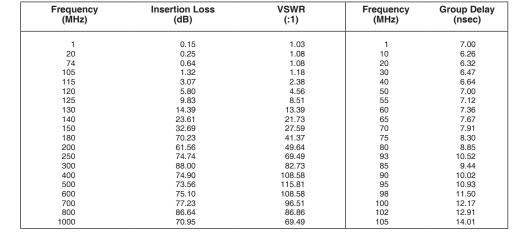
#### **Functional Schematic**



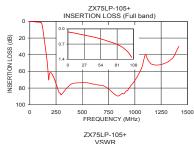
#### **Typical Frequency Response**

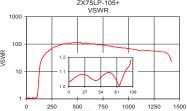


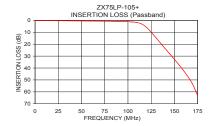
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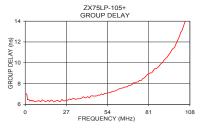


Typical Performance Data at 25°C









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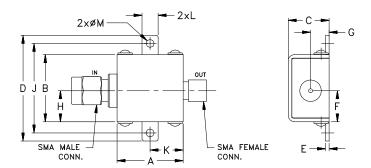
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#### **Coaxial Connections**

INPUT	SMA-Male
OUTPUT	SMA-Female

#### **Outline Drawing**



### Outline Dimensions (inch )

G	F	E	D	С	В	Α
.21	.349	.04	1.18	.46	.75	0.74
5.33	8.86	1.02	29.97	11.68	19.05	18.80
wt		M	L	K	J	Н
wt grams		M .09	L .18	.37	J 1.00	H .349

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