# Coaxial Low Pass Filter

50 $\Omega$  DC to 105 MHz

# ZX75LP-105+

## **The Big Deal**

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



## Pricing: \$49.95 (QTY 1-9)

### **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.



For detailed performance specs & shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine 2 Provides ACTUAL Data Instantly at minicipality.com

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Min-Circuit's applicable established test performance orderia and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuit's tandard Terms"); Purchasers of this part are entitled to the rights and benefits contained herein. For a full statement of the Standard Terms"); Purchasers 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-Circuit's website at www.minicircuits.com/MCLStore/terms.jp.

# Coaxial **Low Pass Filter**

**50**Q DC to 105 MHz

#### **Features**

- · High rejection
- Low Insertion loss
- · Fast roll-off
- Good VSWR
- Connectorized package

#### **Applications**

- Baseband
- Harmonic rejection
- · Wideband down convertor
- Satellite
- Wireless communications
- Receivers / Transmitters

#### **Functional Schematic**



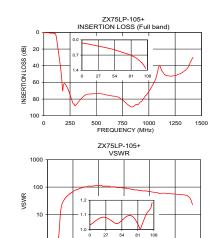
Maximum Ratings					
35°C					
00°C					
ax.					

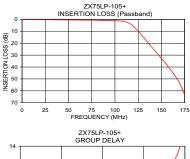
Permanent damage may occur if any of these limits are exceeded

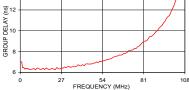
#### Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	0.15	1.03	1	7.00
20	0.25	1.08	10	6.26
74	0.64	1.08	20	6.32
105	1.32	1.18	30	6.47
115	3.07	2.38	40	6.64
120	5.80	4.56	50	7.00
125	9.83	8.51	55	7.12
130	14.39	13.39	60	7.36
140	23.61	21.73	65	7.67
150	32.69	27.59	70	7.91
180	70.23	41.37	75	8.30
200	61.56	49.64	80	8.85
250	74.74	69.49	93	10.52
300	88.00	82.73	85	9.44
400	74.90	108.58	90	10.02
500	73.56	115.81	95	10.93
600	75.10	108.58	98	11.50
700	77.23	96.51	100	12.17
800	86.64	86.86	102	12.91
1000	70.95	69.49	105	14.01

BROUP







For detailed performance specs & shopping online see web site

Mini-Circuits

500 750 1000 FREQUENCY (MHz)

1250 1500

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Control Provides ACTUAL Data Instantly at minicipality.com IF/RF MICROWAVE COMPONENTS

250

REV. OR M132422 ZX75LP-105+ EDR10360U URJ 110811 Page 2 of 3

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuit's tandard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms"); Purchasers of the standard Terms is p.

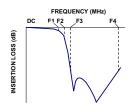
Connectors Model Price Qty. SMA-M\F ZX75LP-105-S+ \$49.95 ea. (1-9)

ZX75LP-105+

#### Electrical Specifications at 25°C

Parameter		F#	Frequency (MHz)	Min.	Тур.	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	
	VSWR	F3-F4	150 -1000	—	26		:1	

#### **Typical Frequency Response**



#### + RoHS compliant in accordance with EU Directive (2002/95/EC)

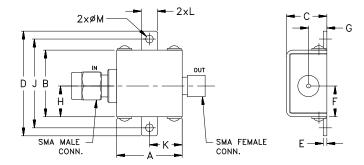
The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

**ZX75LP-105+** 

#### **Coaxial Connections**

INPUT	SMA-Male
OUTPUT	SMA-Female

#### **Outline Drawing**



#### Outline Dimensions ( inch )

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



For detailed performance specs & shopping online see web site

Infright and the second of the beside of the