# ow Pass Filter

# ZX75LP-1050-S+

 $50\Omega$ 

50 to 1050 MHz

## The Big Deal

- Excellent passband flatness, 0.4 dB typ.
- Fast roll-off, high rejection
- Good VSWR
- Connectorized package



## **Product Overview**

ZX75LP-1050-S+ is a  $50\Omega$  low pass filter built in connectorized package which is easy to interface with other devices and well suited for test setups. Covering 50-1050 MHz bandwidth, this filter is designed to have an excellent flatness in the passband to ensure amplitude variation is low. Apart from the high rejection in stopband, these units offer good return loss which makes signal transmission with less reflection and well-matched with the adjacent component used in the setup.

# **Key Features**

Feature	Advantages
Excellent passband flatness	Flat passband ensures low amplitude variation
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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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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# **Low Pass Filter**

 $50\Omega$ 50 to 1050 MHz

## ZX75LP-1050-S+



CASE STYLE: HY1238

Connectors Model

43

SMA-M/F ZX75LP-1050-S+

Тур.

1.7

0.4

1.3

50

Max.

2.2

0.7

1.8

Unit

dB

dΒ

:1

dΒ

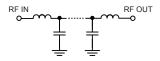
## **Features**

- Excellent passband flatness, 0.4 dB typ.
- Fast roll-off, High rejection
- Good VSWR
- · Connectorized package

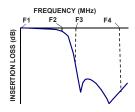
#### **Applications**

- Satellite
- · Mobile satellite
- · Receivers / Transmitters
- Amplitude sensitive measurements & applications

#### **Functional Schematic**



### **Typical Frequency Response**



+RoHS Compliant

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

#### **Maximum Ratings** Operating Temperature -40°C to 85°C Storage Temperature -55°C to 100°C

Insertion Loss

Insertion Loss

Flatness

**VSWR** 

**Parameter** 

Pass Band

Stop Band

RF Power Input Permanent damage may occur if one or combination of these limits are exceeded

F1-F2

F1-F2

F1-F2

F3-F4

1W max.

#### Typical Performance Data at 25°C

Electrical Specifications at 25°C

Frequency (MHz)

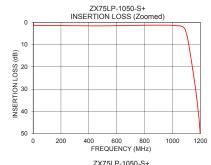
50-1050

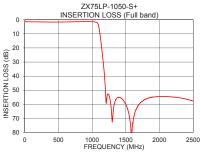
50-1050

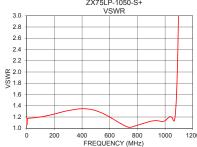
50-1050

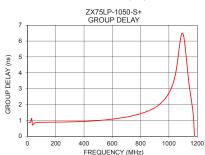
1200-2500

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
10	1.39	1.18	50	0.83
50	1.41	1.18	100	0.88
100	1.44	1.20	150	0.88
500	1.61	1.31	200	0.88
1000	1.38	1.13	250	0.89
1050	1.62	1.19	300	0.90
1090	3.26	2.13	350	0.91
1122	12.19	10.59	400	0.93
1142	20.07	19.15	450	0.95
1166	30.40	27.52	500	0.98
1200	51.90	36.21	550	1.02
1300	72.59	54.14	600	1.07
1400	55.05	67.46	700	1.21
1500	60.07	77.15	800	1.42
1600	75.30	86.72	850	1.58
1700	60.03	95.65	900	1.80
1800	56.27	102.86	950	2.13
2000	54.50	116.85	1000	2.72
2250	55.08	123.60	1030	3.34
2500	57.73	127.44	1050	4.08









- Notes

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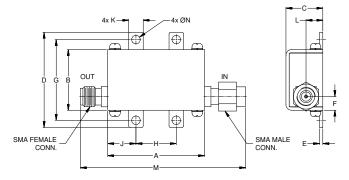
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#### **Coaxial Connections**

INPUT	SMA-Male		
OUTPUT	SMA-Female		

#### **Outline Drawing**



### Outline Dimensions (inch )

Α	В	С	D	E	F	G
1.20	.75	.46	1.18	.04	.17	1.00
30.48	19.05	11.68	29.97	1.02	4.32	25.40
Н	J	К	1	М	N	Wt.
.50	.35	.18	.21	2.05	.106	grams
						0
12.70	8.89	4.57	5.28	52.07	2.69	35.0

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