# Coaxial **Low Pass Filter**

50Ω DC to 288 MHz

# ZX75LP-288-S+

# **The Big Deal**

- High rejection
- Low Insertion loss, 1.1 dB typical in passband
- Fast roll-off
- Good VSWR
- Connectorized package

## **Product Overview**

ZX75LP-288-S+ is a 50Ω low pass filter built in a connectorized package. Covering DC-288 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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# Coaxial Low Pass Filter

50Ω DC to 288 MHz

#### **Features**

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

#### Applications

Satellite

RF IN O-

INSERTION LOSS (dB)

- Wireless communications
- Receivers / Transmitters

**Functional Schematic** 

**Typical Frequency Response** 

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site

for RoHS Compliance methodologies and qualifications

FREQUENCY (MHz) F1 F2 F3 RF OUT

# ZX75LP-288-S+



CASE STYLE: KE1467 <u>Connectors</u> Model <u>SMA-M\F</u> ZX75LP-288-S+

#### Electrical Specifications at 25°C

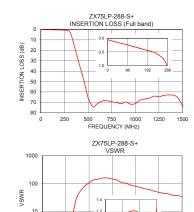
•								
	Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
		Insertion Loss	DC-F1	DC-288	—	1.1	2.0	dB
Pase	s Band	Freq. Cut-Off	F2	312	—	3.0	—	dB
		VSWR	DC-F1	DC-288	—	1.3	1.7	:1
Stop Band	a Band	Rejection Loss	F3-F4	400-1500	20	30	_	dB
	p Banu	VSWR	F3-F4	400-1500	—	32	—	:1

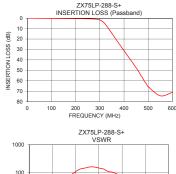
Maximum Ratings				
Operating Temperature	-40°C to 85°C			
Storage Temperature	-55°C to 100°C			
RF Power Input	0.5W max.			

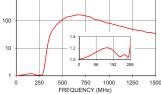
Permanent damage may occur if any of these limits are exceeded.

#### Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	0.05	1.01	1	2.14
20	0.10	1.02	8	2.36
74	0.20	1.09	22	2.31
168	0.40	1.20	40	2.30
272	0.80	1.04	60	2.34
278	0.88	1.05	82	2.37
288	1.09	1.23	100	2.41
298	1.57	1.65	124	2.51
308	2.66	2.53	146	2.63
312	3.33	3.11	166	2.74
320	5.11	4.80	184	2.90
340	11.26	13.29	194	3.02
380	24.68	37.77	206	3.14
400	31.23	49.64	224	3.43
450	47.55	78.97	238	3.66
500	65.66	108.58	248	3.91
550	74.39	133.63	258	4.21
1000	71.19	78.97	268	4.57
1250	64.69	48.26	278	5.10
1500	73.36	33.42	288	5.82







/SWR

#### Notes

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### **Mini-Circuits**

500 750 1000 1250 1500 FREQUENCY (MHz)

192

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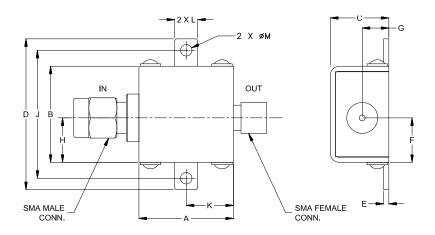
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#### **Coaxial Connections**

•••••••••••••••	
INPUT	SMA-Male
OUTPUT	SMA-Female

#### **Outline Drawing**



#### Outline Dimensions ( inch )

Α	В	С	D	Е	F	G	
.74	.75	.46	1.18	.04	.349	.21	
18.80	19.05	11.68	29.97	1.02	8.86	5.33	
		K				14/4	
н	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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