

Coaxial

# Low Pass Filter

**ZX75LP-900-S+**

50Ω

DC to 900 MHz

## The Big Deal

- High rejection
- Low Insertion loss, 0.9 dB typical in passband
- Fast roll-off
- Good VSWR
- Connectorized package



CASE STYLE: KE1467

## Product Overview

ZX75LP-900-S+ is a 50Ω low pass filter built in a connectorized package. Covering DC-900 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.

### Notes

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.  
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

50Ω

DC to 900 MHz

ZX75LP-900-S+



CASE STYLE: KE1467

Connectors	Model
SMA-MF	ZX75LP-900-S+

## Features

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

## Applications

- Satellite
- Wireless communications
- Receivers / Transmitters

## Electrical Specifications at 25°C

Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-F1	—	0.9	2.0	dB
	Freq. Cut-Off	F2	—	3.0	—	dB
	VSWR	DC-F1	—	1.3	1.8	:1
Stop Band	Rejection Loss	F3-F4	20	30	—	dB
	VSWR	F3-F4	—	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.

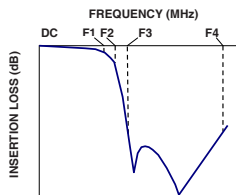
## Functional Schematic



## Typical Performance Data at 25°C

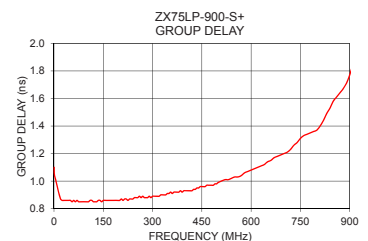
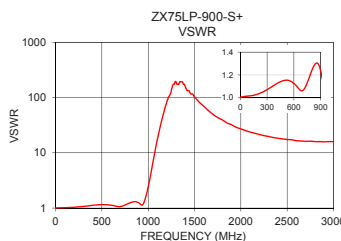
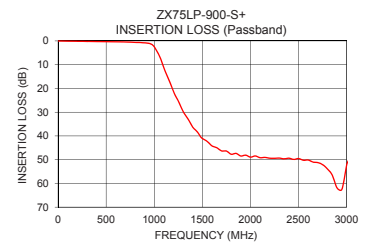
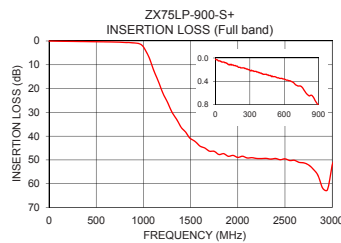
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	0.02	1.01	1	1.05
20	0.04	1.01	10	0.96
80	0.08	1.01	25	0.86
200	0.16	1.03	60	0.86
490	0.32	1.15	140	0.86
810	0.64	1.26	220	0.87
900	0.81	1.24	285	0.88
930	0.91	1.13	350	0.91
950	1.06	1.22	425	0.94
980	1.62	1.73	500	0.99
1000	2.48	2.40	550	1.03
1200	21.30	82.73	580	1.06
1300	29.68	193.02	600	1.08
1400	36.32	157.93	640	1.12
1500	41.09	102.19	700	1.20
1600	44.20	69.49	750	1.31
1800	47.72	39.49	800	1.37
2000	48.94	27.16	850	1.58
2500	49.52	17.39	880	1.67
2900	61.93	15.81	900	1.77

## Typical Frequency Response



## +RoHS Compliant

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



## Notes

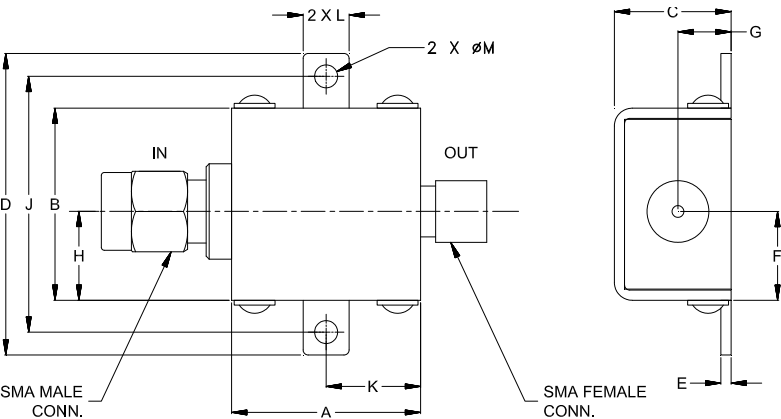
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Coaxial Connections

INPUT	SMA-Male
OUTPUT	SMA-Female

Outline Drawing



Outline Dimensions ( inch mm )

A	B	C	D	E	F	G
.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

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