Coaxial **Low Pass Filter**

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

Product Overview

ZX75LP-900+ 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. C. The parts covered by this specification document are subject to Mini-Circuit's standard limited warranty and terms and conditions (collective), "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.jsp



ZX75LP-900+

Coaxial Low Pass Filter

50Q DC to 900 MHz

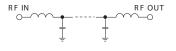
Features

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

Applications

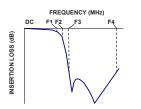
- Satellite
- Wireless communications
- Receivers / Transmitters

Functional Schematic

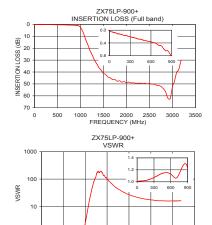


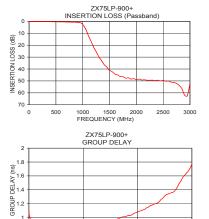
Typical Performance Data at 25°C

Typical Frequency Response









300 600 FREQUENCY (MHz)

Notes

500

0

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CASE STYLE: KE1467 Connectors Model SMA-M\F ZX75LP-900-S+

Electrical Specifications at 25°C

•							
Parameter		F# Frequency (MHz)		Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC-900	—	0.9	2.0	dB
Pass Band	Freq. Cut-Off	F2	1000	—	3.0	—	dB
	VSWR	DC-F1	DC-900	—	1.3	1.8	:1
Stop Band	Rejection Loss	F3-F4	1300-2900	20	30	_	dB
Stop Band	VSWR	F3-F4	1300-2900	—	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

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

0.8

0



1000 1500 2000 2500 FREQUENCY (MHz)

3000 3500

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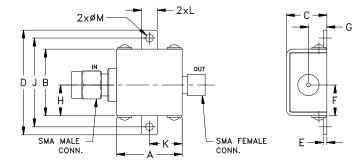
900

ZX75LP-900+

Coaxial Connections

	ale
OUTPUT SMA-Fem	ale

Outline Drawing



Outline Dimensions (inch)

	-					
G	F	E	D	С	В	А
.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
grams		.09	.18	.37	1.00	.349
24.4		2.29	4.57	9.40	25.40	8.86

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