Low Pass Filter

ZX75LP-120-S+

 50Ω DC to 120 MHz

The Big Deal

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



Product Overview

ZX75LP-120-S+ is a 50Ω low pass filter built in connectorized package. Covering DC-120 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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Connectors Model

SMA-M\F ZX75LP-120-S+

· High rejection

- · Low insertion loss
- · Fast roll-off
- Good VSWR

Features

· Connectorized package

Applications

- Satellite
- · Wireless communications
- · Receivers / Transmitters

Electrical Specifications at 25°C

Pa	rameter	F# Frequency (MHz)		Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC-120	_	1.3	2.2	dB
Pass Band	Freq. Cut-Off	F2	130	_	3.0	_	dB
	VSWR	DC-F1	DC-120	_	1.2	1.5	:1
Stop Band	Rejection Loss	F3-F4	175-2000	20	31	_	dB
Stop Band	VSWR	F3-F4	175-2000	_	25	_	: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.

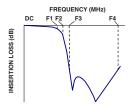
Functional Schematic



Typical Performance Data at 25°C

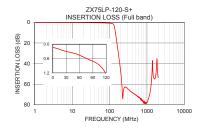
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	0.15	1.04	1	6.64
10	0.19	1.08	10	6.15
60	0.46	1.06	20	6.09
120	1.28	1.07	30	6.16
130	2.60	2.02	40	6.30
135	4.57	3.55	50	6.50
140	7.62	6.42	60	6.74
145	11.26	10.50	65	6.88
155	18.74	19.54	70	7.04
165	25.80	27.16	75	7.23
175	32.48	33.42	80	7.46
190	42.31	41.37	85	7.74
250	63.02	66.82	95	8.49
500	70.44	124.09	90	8.08
750	75.37	115.81	100	8.98
1000	77.70	102.19	105	9.58
1100	74.25	96.51	110	10.35
1200	68.64	91.43	115	11.70
1500	53.31	78.97	117	12.46
2000	53.68	69.49	120	13.17

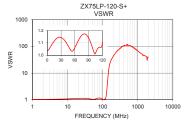
Typical Frequency Response

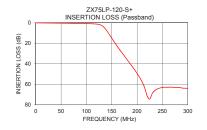


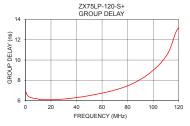
+RoHS Compliant

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









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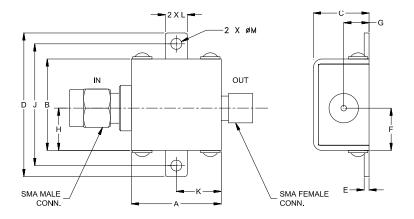
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Coaxial Connections

INPUT	SMA-Male
OUTPUT	SMA-Female

Outline Drawing



Outline Dimensions (inch)

G	F	Е	D	С	В	Α
.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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