Low Pass Filter

ZX75LP-320+

50 Ω DC to 320 MHz

The Big Deal

- · High rejection
- · Low Insertion loss, 1 dB typical in passband
- Fast roll-off
- Good VSWR
- Connectorized package



Product Overview

ZX75LP-320+ is a 50Ω low pass filter built in a connectorized package. Covering DC-320 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-Circuits standard limited warranty and terms and conditions (collectively, "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-Circuits' website at www.ninicircuits.com/MCLStore/terms.jsp

Features

· High rejection

Applications Satellite

· Fast roll-off Good VSWR

· Low Insertion loss

· Connectorized package

· Wireless communications • Receivers / Transmitters

Low Pass Filter

50Q DC to 320 MHz

ZX75LP-320+



Connectors Model

SMA-M\F ZX75LP-320-S+

Electrical Specifications at 25°C

Pa	ameter F# Frequency (MHz) Min.		F# Frequency (MHz)		Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC-320	_	1.0	2.0	dB
Pass Band	Freq. Cut-Off	F2	345	_	3.0	_	dB
	VSWR	DC-F1	DC-320	_	1.3	1.7	:1
Stop Band	Rejection Loss	F3-F4	445-1800	20	31	_	dB
Stop Band	VSWR	F3-F4	445-1800	_	40	_	:1

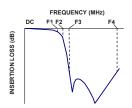
Maximum	Ratings
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W max.

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

Functional Schematic



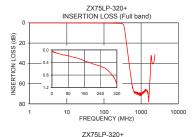
Typical Frequency Response

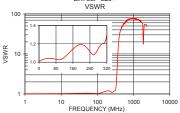


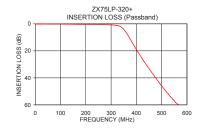
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

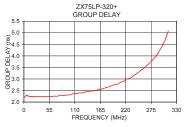
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	0.06	1.01	1	2.22
50	0.15	1.04	10	2.26
100	0.22	1.03	25	2.24
200	0.44	1.19	50	2.25
320	1.10	1.31	100	2.31
345	3.15	3.08	110	2.37
360	6.58	6.83	120	2.40
380	12.72	16.26	130	2.42
410	22.00	31.03	140	2.45
445	31.88	41.37	175	2.61
500	45.94	51.10	180	2.64
550	56.91	57.91	200	2.77
600	64.77	62.05	220	2.98
650	68.16	69.49	240	3.18
700	68.88	69.49	250	3.33
750	68.61	72.39	260	3.48
800	68.75	75.53	280	3.87
1000	69.25	75.53	300	4.46
1500	69.10	66.82	310	4.97
1800	44.70	49.64	320	5.60









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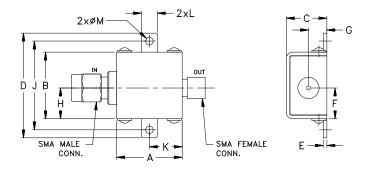
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Coaxial Connections

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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