# **Low Pass Filter**

ZX75LP-320+

50 $\Omega$  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  $50\Omega$  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.		

For detailed performance spec-& shopping online see web site **Features** · High rejection · Low Insertion loss

· Fast roll-off

# **Low Pass Filter**

50Q DC to 320 MHz

## ZX75LP-320+



CASE STYLE: KE1467

Connectors	Model	Price	Qty.
SMA-M\F	ZX75LP-320-S+	\$49.95 ea.	(1-9)

#### Flectrical Specifications at 25°C

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Pa	rameter	F#	Frequency (MHz) Min. Typ. Max.		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
	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.

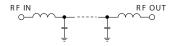
Permanent damage may occur if any of these limits are exceeded.

 Good VSWR · Connectorized package

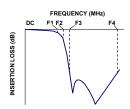
#### **Applications**

- Satellite
- · Wireless communications
- · Receivers / Transmitters

#### **Functional Schematic**



#### **Typical Frequency Response**

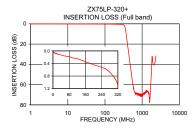


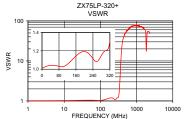
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

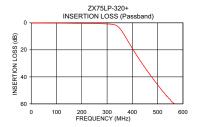
The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

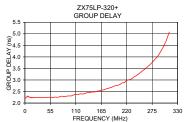
# Typical Performance Data at 25°C

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









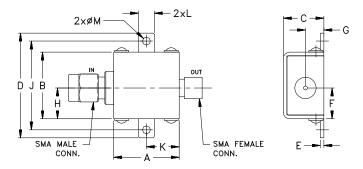
Mini-Circuits
ISO 9001 ISO 14001 AS 9100 CERTIFIED

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicipality.com IF/RF MICROWAVE COMPONENTS

#### **Coaxial Connections**

INPUT	SMA-Male
OUTPUT	SMA-Female

#### **Outline Drawing**



#### Outline Dimensions ( inch mm)

G	-	E	D	C	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