# Coaxial Low Pass Filter

50 $\Omega$  DC to 50 MHz

### The Big Deal

- · High rejection
- Low Insertion loss, 1.4 dB typical in passband
- Fast roll-off
- Good VSWR
- Connectorized package

#### **Product Overview**

ZX75LP-50+ is a  $50\Omega$  low pass filter built in a connectorized package. Covering DC-50 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.



ZX75LP-50+



For detailed performance specs & shopping online see web site

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## Coaxial **Low Pass Filter**

**50**Q DC to 50 MHz

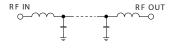
#### **Features**

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

#### **Applications**

- Satellite
- Wireless communications
- Receivers / Transmitters

#### **Functional Schematic**



**Typical Frequency Response** 

+ RoHS compliant in accordance

The +Suffix has been added in order to identify RoHS

Compliance. See our web site for RoHS Compliance

methodologies and qualifications.

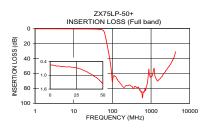
with EU Directive (2002/95/EC)

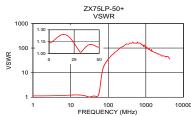
FREQUENCY (MHz)

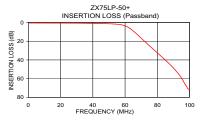
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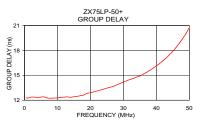
INSERTION LOSS (dB)

	Typical Performance Data at 25°C					
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)		
1	0.55	1.13	1	12.25		
10	0.61	1.22	5	12.38		
50	1.38	1.08	10	12.27		
56	2.03	1.31	12	12.37		
59	3.01	1.85	15	12.42		
70	16.79	11.46	18	12.63		
75	24.74	16.56	20	12.90		
79	30.91	19.76	23	13.22		
90	48.69	28.03	25	13.46		
100	71.31	34.07	27	13.68		
200	78.72	91.43	30	14.18		
250	76.60	115.81	32	14.49		
500	82.37	157.93	35	14.92		
750	78.28	157.93	37	15.35		
500	82.37	157.93	40	16.14		
1500	70.07	86.86	42	16.75		
2000	62.42	78.97	44	17.49		
3000	49.72	62.05	46	18.37		
3500	43.72	35.46	48	19.44		
4000	37.15	48.26	50	20.76		









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CASE STYLE: KE1467 Connectors Model Price SMA-M\F ZX75LP-50-S+ \$49.95 ea. (1-9)

Qty.

ZX75LP-50+

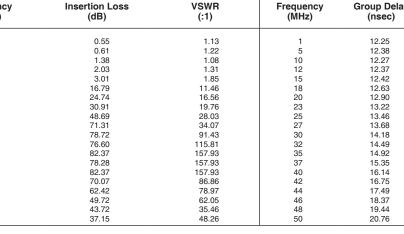
#### Electrical Specifications at 25°C

	Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
		Insertion Loss	DC-F1	DC-50	—	1.4	2.2	dB
Pass	Band	Freq. Cut-Off	F2	59	_	3.0	—	dB
		VSWR	DC-F1	DC-50	—	1.2	1.8	:1
Ston	Band	Rejection Loss	F3-F4	79-4000	20	30	_	dB
Stop Band		VSWR	F3-F4	79-4000	_	12	_	: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

M132413 ZX75LP-504 EDR10351U



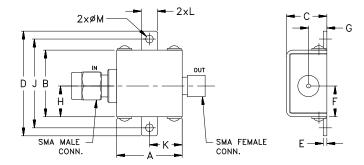
IF/RF MICROWAVE COMPONENTS

**ZX75LP-50+** 

#### **Coaxial Connections**

INPUT	SMA-Male		
OUTPUT	SMA-Female		

#### **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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