Coaxial **Low Pass Filter**

50Ω DC to 40 MHz

The Big Deal

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

Product Overview

ZX75LP-40+ is a 50 Ω low pass filter built in a connectorized package. Covering DC-40 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

Notes

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-40+

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Coaxial Low Pass Filter

DC to 40 MHz **50**Q

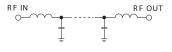
Features

- · 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

The +Suffix identifies RoHS Compliance. See our web site

for RoHS Compliance methodologies and qualifications

DC

NSERTION LOSS (dB)

FREQUENCY (MHz)

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.				

Typical Performance Data at 25°C

Electrical Specifications at 25°C

F#

DC-F1

F2

DC-F1

F3-F4

F3-F4

Frequency (MHz)

DC-40

56

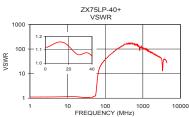
DC-40

71-3000

71-3000

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	0.50	1.12	1	11.41
10	0.54	1.15	5	11.47
20	0.59	1.11	10	11.58
30	0.74	1.03	12	11.67
40	1.01	1.04	14	11.77
50	1.62	1.18	16	11.91
56	2.83	1.29	18	12.08
60	6.89	3.33	20	12.30
64	15.26	8.35	22	12.54
71	32.30	16.56	24	12.84
75	43.79	19.98	25	12.99
100	59.89	36.20	26	13.13
150	56.63	66.82	28	13.47
250	78.26	115.81	30	13.86
500	83.02	157.93	32	14.29
1000	67.72	115.81	24	12.84
1500	69.54	86.86	35	15.09
2000	61.23	72.39	36	15.41
2500	54.79	69.49	38	16.11
3000	48.61	57.91	40	16.93







ZX75LP-40+

CASE STYLE: KE1467

ZX75LP-40-S+

Тур.

1.0

3.0

1.2

31

16

Max.

2.0

1.5

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Unit

dB

dB

:1

dB

:1

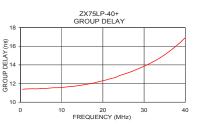
Connectors Model

Min.

20

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SMA-M\F



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Mini-Circuits

Pass Band

Stop Band

Parameter

Insertion Loss

Freq. Cut-Off

Rejection Loss

VSWR

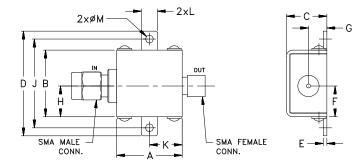
VSWR

ZX75LP-40+

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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