Low Pass Filter

ZX75LP-40-S+

 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-S+ is a 50Ω 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

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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Low Pass Filter

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ZX75LP-40-S+



CASE STYLE: KE1467

Тур.

1.0

3.0

1.2

31

16

Max.

2.0

1.5

Unit

dB

dΒ

:1

dΒ

:1

Connectors Model

20

SMA-M\F ZX75LP-40-S+

Features

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

Applications

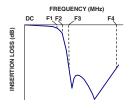
- Satellite
- · Wireless communications
- · Receivers / Transmitters

Functional Schematic





Typical Frequency Response



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

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

Parameter

Pass Band

Stop Band

Insertion Loss

Freq. Cut-Off

Rejection Loss

VSWR

VSWR

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

Typical Performance Data at 25°C

Electrical Specifications at 25°C

Frequency (MHz)

DC-40

56

DC-40

71-3000

71-3000

DC-F1

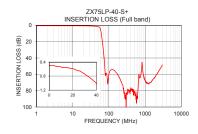
F2

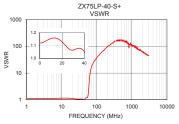
DC-F1

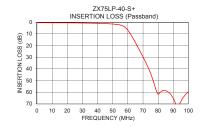
F3-F4

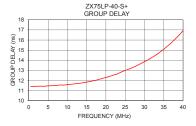
F3-F4

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









Notes
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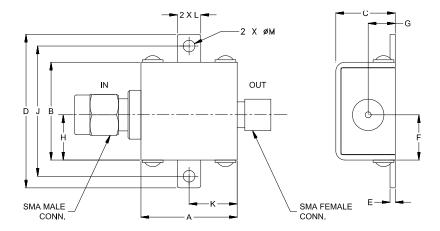
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Coaxial Connections

INPUT	SMA-Male
OUTPUT	SMA-Female

Outline Drawing



Outline Dimensions (inch)

G	F	E	D	С	В	Α
.21	.349	.04	1.18	.46	.75	.74
5.33	8.86	1.02	29.97	11.68	19.05	18.80
Wt.		М	1	К	1	Н
VVI.		IVI	_	11	J	- 11
grams		.09	.18	.37	1.00	.349
24.4		2.29	4.57	9.40	25.40	8.86

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