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



Generic photo used for illustration purposes only CASE STYLE: KE1467

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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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.

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Features

· High rejection

· Fast roll-off

Good VSWR

Applications Satellite

· Low Insertion loss

· Connectorized package

· Wireless communications • Receivers / Transmitters

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Connectors Model

SMA-M\F ZX75LP-40-S+

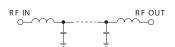
Electrical Specifications at 25°C

Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
Pass Band	Insertion Loss	DC-F1	DC-40	_	1.0	2.0	dB
	Freq. Cut-Off	F2	56	_	3.0	_	dB
	VSWR	DC-F1	DC-40	_	1.2	1.5	:1
Stop Band	Rejection Loss	F3-F4	71-3000	20	31	_	dB
	VSWR	F3-F4	71-3000	_	16	_	:1

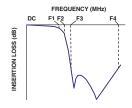
Maximum Ratings				
Operating Temperature	-40°C to 85°C			
Storage Temperature	-55°C to 100°C			
RF Power Input	0.5W max.			

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

Functional Schematic



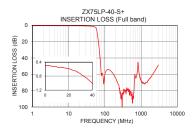
Typical Frequency Response

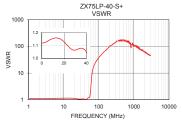


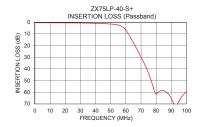
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

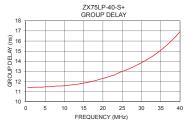
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	0.50	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









Notes

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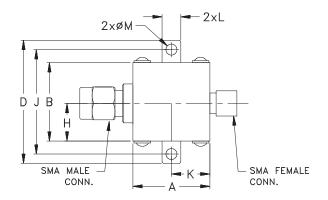
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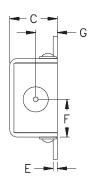
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Coaxial Connections

INPUT	SMA-Male		
OUTPUT	SMA-Female		

Outline Drawing





Outline Dimensions (inch mm)

Α	В	С	D	Е	F	G
.74	.75	.46	1.18	.04	.362	.21
18.80	19.05	11.68	29.97	1.02	9.19	5.33
		K		М		10/4
Н	J		L			Wt.
.362	1.00	.37	.18	.11		grams
9.19	25.40	9.40	4.57	2.79		24.4

Note: Please refer to case style drawing for details

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