Coaxial Low Pass Filter

50 Ω 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 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.



ZX75LP-40+



For detailed performance spec. & shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine 2 Provides ACTUAL Data Instantly at minicipation of the Components

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuit's standard Terms'); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms is the exclusive rights and the exclusive rights and benefits contained therein. For a full statement of the Standard Terms is provide the rights and the exclusive rights and the exclus

Coaxial **Low Pass Filter**

50Q DC to 40 MHz

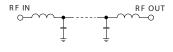
Features

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

Applications

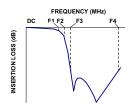
- Satellite
- · Wireless communications
- Receivers / Transmitters

Functional Schematic



Frequency	Incortion Loss	Ve
	Typical Perfo	ormance
Permanent damage may occur if an	y of these limits are exceeded.	
RF Power Input	0.5W max.	
Storage Temperature	-55°C to 100°C	

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.

ZX75	_P-40+
0	Mint-Circuit



CASE STYLE: KE1467 Connectors Model Price Qty. SMA-M\F ZX75LP-40-S+ \$49.95 ea. (1-9)

Electrical Specifications at 25°C

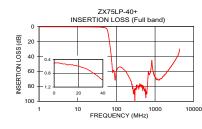
Pa	Parameter		Frequency (MHz) Min.		Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC-40	—	1.0	2.0	dB
Pass Band	Freq. Cut-Off	F2	56	—	3.0	—	dB
	VSWR	DC-F1	DC-40	—	1.2	1.5	:1
Stop Band	Rejection Loss	F3-F4	71-3000	20	31	—	dB
Stop Band	VSWR	F3-F4	71-3000	—	16	—	:1

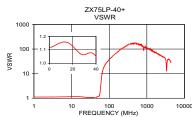
	· 3·
Operating Temperature	-40°C to 85°C
Storage Temperature -55°C to 100°C	
RF Power Input	0.5W max.
Permanent damage may occur if any	of these limits are exceeded.

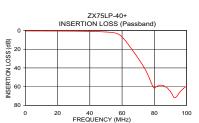
Maximum Ratings

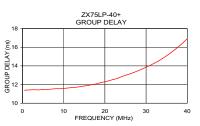
e Data at 25°C

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









For detailed performance specs & shopping online see web site

Mini-Circuits P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Control Fax (718) 732-4661 The Design Engineers Search Engine Control Fax (718) 732-4661 The Design Engineers Search Engine Control Fax (718) 732-7461 The Design Engineers Search Engine Control Fax (718) 732-7461 The Design Engineers Search Engine Control Fax (718) 732-7461 The Design Engineers Search Engine Control Fax (718) 732-7461 The Design Engineers Search Engine Control Fax (718) 732-7461 The Design Engineers Search Engine Control Fax (718) 732-7461 The Design Engineers Search Engine Control Fax (718) 732-7461 The Design Engineers Search Engine Control Fax (718) 732-7461 The Design Engineers Search Engine Control Fax (718) 732-7461 The Design Engineers Search Engine Control Fax (718) 732-7461 The Design Engineers Search Engine Control Fax (718) 732-7461 The Design Engineers Search Engine Control Fax (718) 732-7461 The Design Engineers Search Engine Control Fax (718) 732-7461 The Design Engineers Search Engine Control Fax (718) 732-7461 The Design Engineers Search Engine Control Fax (718) 732-7461 The Design Engineers Search Engine Control Fax (718) 732-7461 The Design Engineers Search Engine Control Fax (718) 732-7461 The Design Engineers Search Engine Control Fax (718) 732-7461 The Design Engineers Search Engine Control Fax (718) 732-7461 The Design Engineers Search Engine Control Fax (718) 732-7461 The Design Engineers Search Engine Control Fax (718) 732-7461 The Design Engineers Search E IF/RF MICROWAVE COMPONENTS

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Min-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuit's applicable established test are an entited to the rights and benefits contained therein. For a full statement of the Standard Terms'), Purchaves or this part are entited to the rights and benefits contained therein. For a full statement of the Standard Terms'), Purchaves or Mini-Circuit's com/MCLStore/terms.jsp.

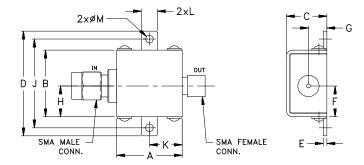
REV. OR M132407 ZX75LP-404 EDR10365U URJ 110806 Page 2 of 3

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



For detailed performance specs & shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine 2012 Provides ACTUAL Data Instantly at minicipality.com

Infright and the second of the beside of the