Low Pass Filter

ZX75LP-70+

50 Ω DC to 70 MHz

The Big Deal

- · High rejection
- Low Insertion loss, 1.5 dB typical in passband
- Fast roll-off
- Good VSWR
- Connectorized package



Product Overview

ZX75LP-70+ is a 50Ω low pass filter built in a connectorized package. Covering DC-70 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.

For detailed performance special shopping online see web site

Features · High rejection · Low insertion loss

· Fast roll-off Good VSWR

Applications Satellite

· Connectorized package

· Wireless communications · Receivers / Transmitters

Low Pass Filter

DC to 70 MHz 50Q





CASE STYLE: KE1467

Connectors	Model	Price	Qty.
SMA-M\F	ZX75LP-70-S+	\$49.95 ea.	(1-9)

Flectrical Specifications at 25°C

Electrical opecinications at 25 C							
Pa	rameter	F# Frequency (MHz) Min. Typ. Max.		Max.	Unit		
	Insertion Loss	DC-F1	DC-70	_	1.5	2.2	dB
Pass Band	Freq. Cut-Off	F2	78	_	3.0	_	dB
	VSWR	DC-F1	DC-70	_	1.2	1.6	:1
Stop Band	Rejection Loss	F3-F4	105-4000	20	35	_	dB
	VSWB	F3-F4	105-4000	_	20	_	-1

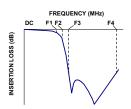
Maximum	Ratings
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W max.

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

Functional Schematic



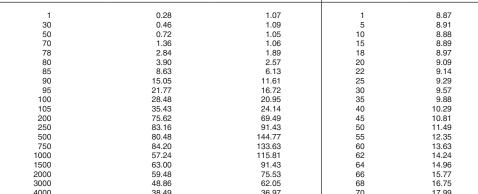
Typical Frequency Response



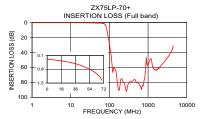
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

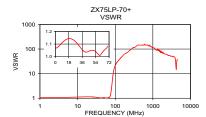
The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

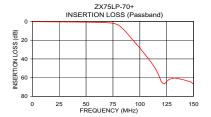
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	0.28	1.07	1	8.87
30	0.46	1.09	5	8.91
50	0.72	1.05	10	8.88
70	1.36	1.06	15	8.89
78	2.84	1.89	18	8.97
80	3.90	2.57	20	9.09
85	8.63	6.13	22	9.14
90	15.05	11.61	25	9.29

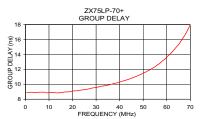


Typical Performance Data at 25°C









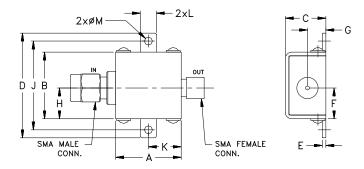
Mini-Circuits
ISO 9001 ISO 14001 AS 9100 CERTIFIED

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

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	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