Low Pass Filter

ZX75LP-70-S+

 50Ω 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



Generic photo used for illustration purposes only CASE STYLE: KE1467

Product Overview

ZX75LP-70-S+ 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.

Notes
A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
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.
C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

Features

· High rejection

Applications Satellite

· Fast roll-off Good VSWR

· Low insertion loss

· Connectorized package

• Wireless communications • Receivers / Transmitters

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 50Ω DC to 70 MHz

ZX75LP-70-S+



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Connectors Model ZX75LP-70-S+ SMA-M\F

Electrical Specifications at 25°C

Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
Pass Band	Insertion Loss	DC-F1	DC-70	_	1.5	2.2	dB
	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
	VSWR	F3-F4	105-4000	_	20	_	:1

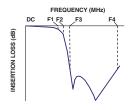
Maximum Ratings				
Operating Temperature	-40°C to 85°C			
Storage Temperature	-55°C to 100°C			
RF Power Input	0.5W max.			

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

Functional Schematic



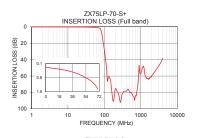
Typical Frequency Response

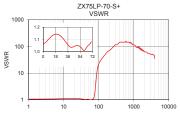


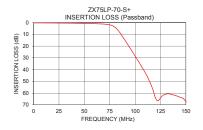
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

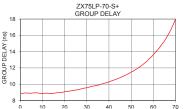
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	0.28	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
95	21.77	16.72	30	9.57
100	28.48	20.95	35	9.88
105	35.43	24.14	40	10.29
200	75.62	69.49	45	10.81
250	83.16	91.43	50	11.49
500	80.48	144.77	55	12.35
750	84.20	133.63	60	13.63
1000	57.24	115.81	62	14.24
1500	63.00	91.43	64	14.96
2000	59.48	75.53	66	15.77
3000	48.86	62.05	68	16.75
4000	38.49	36.97	70	17.99









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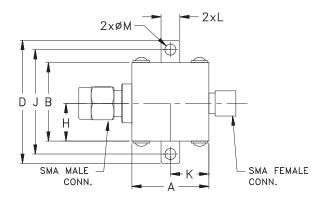
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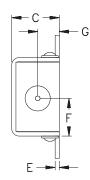
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Coaxial Connections

INPUT	SMA-Male
OUTPUT	SMA-Female

Outline Drawing





Outline Dimensions (inch mm)

Α	В	С	D	E	F	G
.74	.75	.46	1.18	.04	.362	.21
18.80	19.05	11.68	29.97	1.02	9.19	5.33
Н	J	K	L	М		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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