Low Pass Filter

ZX75LP-105-S+

 50Ω DC to 105 MHz

The Big Deal

- · High rejection
- Low Insertion loss, 1.3 dB typical in passband
- Fast roll-off
- Good VSWR
- Connectorized package



Generic photo used for illustration purposes only CASE STYLE: KE1467

Product Overview

ZX75LP-105-S+ is a 50Ω low pass filter built in a connectorized package. Covering DC-105 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. This can also be used in wide-band down convertors and baseband circuitry. 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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Connectors SMA-M\F ZX75LP-105-S+

Group Delay

Electrical Specifications at 25°C

Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC -105	_	1.3	2.0	dB
Pass Band	Freq. Cut-Off	F2	115	_	3.0	_	dB
	VSWR	DC-F1	DC -105	_	1.2	1.6	:1
Stop Band	Rejection Loss	F3-F4	150 -1000	20	33	_	dB
	VSWR	F3-F4	150 -1000	_	26	_	: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.

Applications

Baseband

Features

· High rejection

· Fast roll-off Good VSWR

· Low Insertion loss

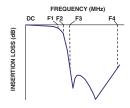
· Connectorized package

- · Harmonic rejection
- · Wideband down convertor
- Satellite
- · Wireless communications
- · Receivers / Transmitters

Functional Schematic

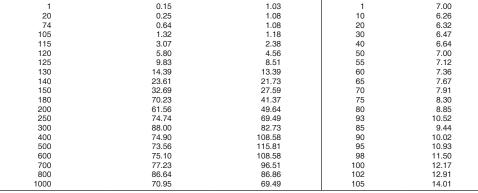


Typical Frequency Response



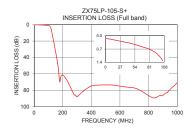
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

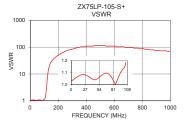
Frequency (MHz) Insertion Loss (dB) Frequency (MHz) (:1) (nsec) 0.15 1.03 20 0.25 1.08 10 74 105 0.64 20 1.08 1.18 40 50 55 3.07 2.38 115 120 5.80 4 56 9.83 125 8.51 130 14.39 13.39 60 140 23 61 21 73

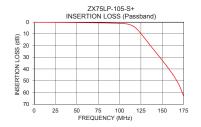


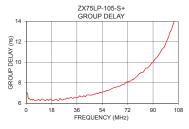
Typical Performance Data at 25°C

VSWR









Notes
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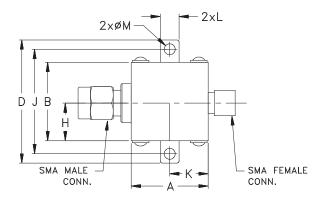
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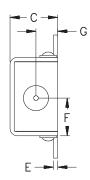
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Coaxial Connections

INPUT	SMA-Male
OUTPUT	SMA-Female

Outline Drawing





Outline Dimensions (inch)

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

Note: Please refer to case style drawing for details

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