ow Pass Filter

ZX75LP-216-S+

 50Ω DC to 216 MHz

The Big Deal

- · High rejection
- Low Insertion loss, 1.2 dB typical in passband
- Fast roll-off
- Good VSWR
- Connectorized package



Generic photo used for illustration purposes only CASE STYLE: KE1467

Product Overview

ZX75LP-216-S+ is a 50Ω low pass filter built in a connectorized package. Covering DC-216 MHz bandwidth, these units offer good matching within the passband and high rejection in stopband. This will find its applications in TV and broadcasting systems, ADC/DAC circuitry and portable transceivers. 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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Low Pass Filter

 50Ω DC to 216 MHz

ZX75LP-216-S+



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CASE STYLE: KE1467

Model Connectors ZX75LP-216-S+ SMA-M\F

Frequency (MHz)

25 50

75

100

110

120

130 140

160 170

180

190

200

205

210

Group Delay

(nsec) 3.22

3.21

3.17 3.22

3.33

3.51

3.71

3 83

4.02 4.20

4.45

4.75

5.12

5 59

6.27

6.71

7 29

7.85

Electrical Specifications at 25°C

Pa	rameter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC-216	_	1.2	2.0	dB
Pass Band	Freq. Cut-Off	F2	232	_	3.0	_	dB
	VSWR	DC-F1	DC-216	_	1.3	1.7	:1
Stop Band	Rejection Loss	F3-F4	300-1400	20	32	_	dB
	VSWR	F3-F4	300-1400	_	35	_	:1

Typical Performance Data at 25°C

VSWR

(:1)

1.02

1.03

1.10

1.03

1.06

1 26

2.93

7.63

17 22

28.96

36.97

44.55

51.10

59 91

75.53

96.51

91 43

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.

Frequency (MHz)

35

90 180

200

216

232

245

260

280

300

325

350

400

Insertion Loss (dB)

0.08

0.17

0.31

0.85

1 23

3.28

7.77

14 59

23.75

32 56

43.77

56.47

72 53

Applications

Baseband

Features

· High rejection

· Fast roll-off Good VSWR

· Low Insertion loss

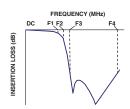
· Connectorized package

- · TV / Broadcasting
- FM Transmitters / Receivers
- · Satellite systems
- · Test equipment
- · ADC / DAC circuitry

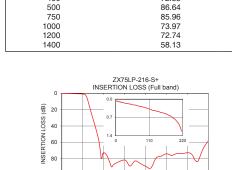
Functional Schematic

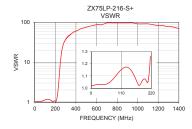


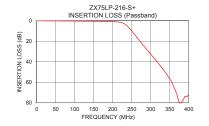
Typical Frequency Response

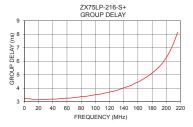


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200 400

Notes
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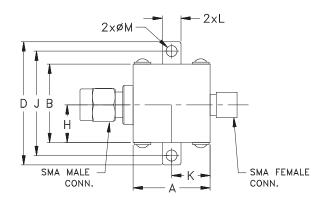
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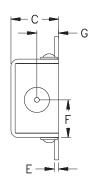
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Coaxial Connections

INPUT	SMA-Male		
OUTPUT	SMA-Female		

Outline Drawing





Outline Dimensions (inch)

Α	В	С	D	Ε	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	M		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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