Coaxial .ow Pass Filter

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

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.



ZX75LP-216-S+

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Coaxial Low Pass Filter

50Ω DC to 216 MHz

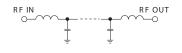
Features

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

Applications

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

Functional Schematic



Typical Frequency Response

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site

for RoHS Compliance methodologies and qualifications

FREQUENCY (MHz) F3

INSERTION LOSS (dB)

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

Parameter

Pass Band

Stop Band

Insertion Loss

Freq. Cut-Off

Rejection Loss

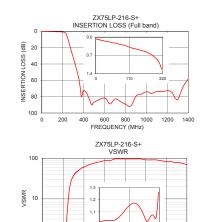
VSWR

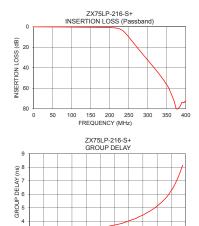
VSWR

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

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	0.08	1.02	1	3.22
35	0.17	1.03	5	3.21
90	0.31	1.10	25	3.17
180	0.65	1.03	50	3.22
200	0.85	1.06	75	3.33
216	1.23	1.26	100	3.51
232	3.28	2.93	110	3.60
245	7.77	7.63	120	3.71
260	14.59	17.22	130	3.83
280	23.75	28.96	140	4.02
290	28.17	33.42	150	4.20
300	32.56	36.97	160	4.45
325	43.77	44.55	170	4.75
350	56.47	51.10	180	5.12
400	72.53	59.91	190	5.59
500	86.64	75.53	200	6.27
750	85.96	96.51	205	6.71
1000	73.97	91.43	210	7.29
1200	72.74	82.73	214	7.85
1400	58.13	69.49	216	8.14





80 100 120 140 160 180 200 220

FREQUENCY (MHz)

3

0

20 40 60



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0 200 400 600

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ZX75LP-216-S+

Min.

20

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CASE STYLE: KE1467 Connectors Model SMA-M\F ZX75LP-216-S+

Тур.

12

3.0

1.3

32

35

Max.

2.0

1.7

_

Unit

dB

dB

:1

dB

:1

Electrical Specifications at 25°C Frequency (MHz)

DC-216

232

DC-216

300-1400

300-1400

F#

DC-F1

F2

DC-F1

F3-F4

F3-F4

232	3.28	2.93
245	7.77	7.63
260	14.59	17.22
280	23.75	28.96
290	28.17	33.42
300	32.56	36.97
325	43.77	44.55
350	56.47	51.10
400	72.53	59.91

800 1000 1200

FREQUENCY (MHz)

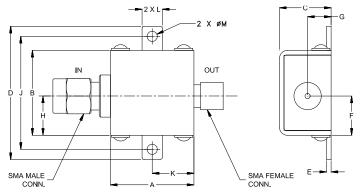
1400

ZX75LP-216-S+

Coaxial Connections

INPUT	SMA-Male
OUTPUT	SMA-Female

Outline Drawing



Outline Dimensions (inch)

Α	В	С	D	E	F	G	
.74	.75	.46	1.18	.04	.349	.21	
18.80	19.05	11.68	29.97	1.02	8.86	5.33	
		IZ.				14/1	
н	J	K	L	M		Wt.	
.349	1.00	.37	.18	.09		grams	
8.86	25.40	9.40	4.57	2.29		24.4	

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