

Coaxial Low Pass Filter

ZX75LP-216+

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



CASE STYLE: KE1467

Product Overview

ZX75LP-216+ 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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IF/RF MICROWAVE COMPONENTS

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet 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.

For detailed performance specs
& shopping online see web site

Low Pass Filter

50Ω

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ZX75LP-216+



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Connectors	Model	Price	Qty.
SMA-MF	ZX75LP-216-S+	\$49.95 ea.	(1-9)

Features

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

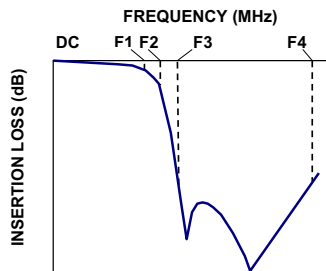
Applications

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

Functional Schematic



Typical Frequency Response



Electrical Specifications at 25°C

Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-F1	—	1.2	2.0	dB
	Freq. Cut-Off	F2	—	3.0	—	dB
	VSWR	DC-F1	—	1.3	1.7	:1
Stop Band	Rejection Loss	F3-F4	20	32	—	dB
	VSWR	F3-F4	—	35	—	:1

Maximum Ratings

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

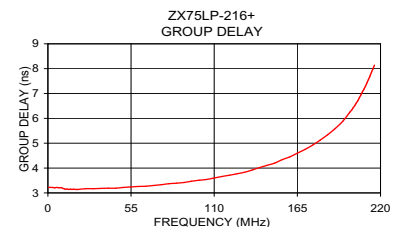
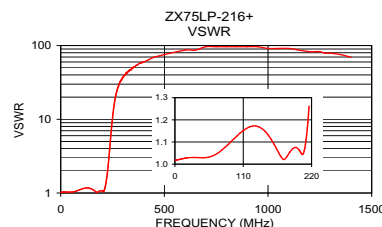
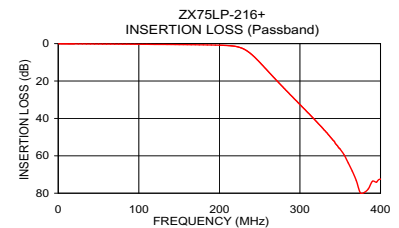
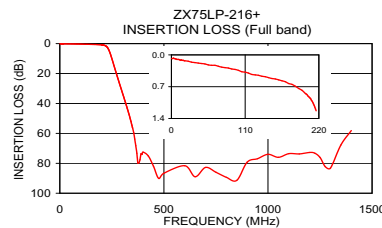
Permanent damage may occur if any of these limits are exceeded.

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

+ 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.



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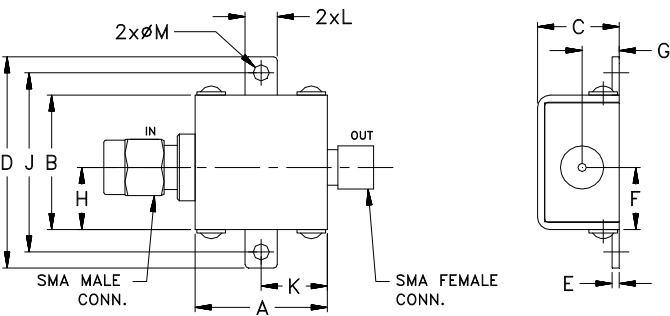
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Page 2 of 3

Coaxial Connections

INPUT	SMA-Male
OUTPUT	SMA-Female

Outline Drawing



Outline Dimensions (inch mm)

A	B	C	D	E	F	G
0.74	.75	.46	1.18	.04	.349	.21
18.80	19.05	11.68	29.97	1.02	8.86	5.33
H	J	K	L	M	wt	
.349	1.00	.37	.18	.09	grams	
8.86	25.40	9.40	4.57	2.29	24.4	