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



Product Overview

ZX75LP-216+ is a 50 Ω 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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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.

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Low Pass Filter

50Q DC to 216 MHz

ZX75LP-216+



CASE STYLE: KE1467

Connectors Model

SMA-M\F ZX75LP-216-S+

Flectrical Specifications at 25°C

Parameter		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
Stop Band	VSWR	F3-F4	300-1400	_	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.

Applications

Baseband

Features

· High rejection

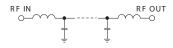
· Fast roll-off Good VSWR

· Low Insertion loss

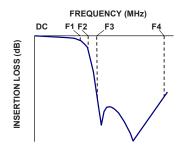
· Connectorized package

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

Functional Schematic



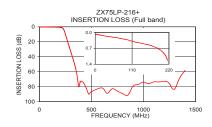
Typical Frequency Response

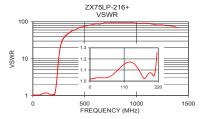


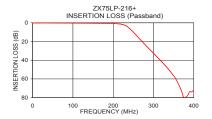
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

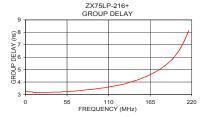
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	0.08	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









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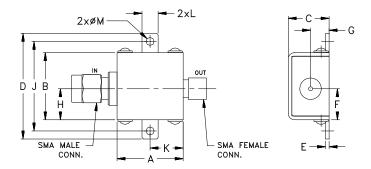
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Coaxial Connections

INPUT	SMA-Male
OUTPUT	SMA-Female

Outline Drawing



Outline Dimensions (inch)

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

Notes
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