Low Pass Filter

ZX75LP-83+

 50Ω DC to 83 MHz

The Big Deal

- · High rejection
- Low Insertion loss, 1.4 dB typical in passband
- Fast roll-off
- Good VSWR
- Connectorized package



Product Overview

ZX75LP-83+ is a 50Ω low pass filter built in a connectorized package. Covering DC-83 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 and harmonics. 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.

C. The parts covered by this specification document 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.ninicircuits.com/MCLStore/terms.jsp



Features

· High rejection

Applications Satellite

· Fast roll-off Good VSWR

· Low Insertion loss

· Connectorized package

· Wireless communications • Receivers / Transmitters

Low Pass Filter

50Q DC to 83 MHz

ZX75LP-83+



CASE STYLE: KE1467

Connectors Model

SMA-M\F ZX75LP-83-S+

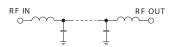
Flectrical Specifications at 25°C

Electrical opening at 20 0							
Pa	rameter	F# Frequency (MHz) Min. Ty		Тур.	Max.	Unit	
	Insertion Loss	DC-F1	DC-83	_	1.4	2.0	dB
Pass Band	Freq. Cut-Off	F2	93	_	3.0	_	dB
	VSWR	DC-F1	DC-83	_	1.2	1.5	:1
Stop Band	Rejection Loss	F3-F4	119-850	20	30		dB
	VSWB	F3-F4	119-850	_	22	_	-1

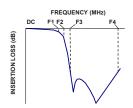
Maximum	Ratings
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W max.

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

Functional Schematic



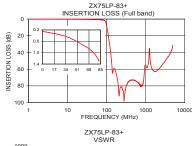
Typical Frequency Response

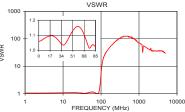


+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

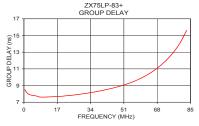
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	0.26	1.06	1	8.29
35	0.44	1.04	6	7.77
70	0.90	1.08	12	7.63
83	1.30	1.03	18	7.70
93	2.76	1.79	24	7.82
98	5.78	3.80	30	8.01
104	12.10	8.99	36	8.23
113	22.88	17.75	42	8.51
119	30.06	22.29	46	8.73
140	64.89	34.07	53	9.22
160	59.76	44.55	59	9.80
210	92.20	66.82	62	10.16
245	80.88	82.73	65	10.58
280	98.35	96.51	68	11.08
320	79.47	108.58	71	11.67
440	73.41	124.09	74	12.36
650	76.54	115.81	75	12.62
750	79.91	96.51	77	13.20
815	80.00	91.43	80	14.24
850	76.88	86.86	83	15.63









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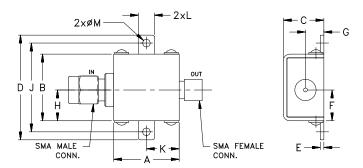
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Coaxial Connections

INPUT	SMA-Male
OUTPUT	SMA-Female

Outline Drawing



Outline Dimensions (inch)

G	F	Е	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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