Low Pass Filter

ZX75LP-137+

 50Ω DC to 137 MHz

The Big Deal

- · High rejection
- Low Insertion loss, 1.3 dB typical in passband
- Fast roll-off
- Good VSWR
- Connectorized package



Product Overview

ZX75LP-137+ is a 50Ω low pass filter built in a connectorized package. Covering DC-137 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.

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Low Pass Filter

50Q DC to 137 MHz

ZX75LP-137+



CASE STYLE: KE1467

Тур.

1.3

3.0

1.2

33

31

Max.

2.0

1.7

Unit

dB

dΒ

:1

dΒ

:1

Connectors Model

20

SMA-M\F ZX75LP-137-S+

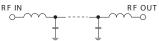
- **Features** · High rejection
- · Low insertion loss
- · Fast roll-off
- Good VSWR
- · Connectorized package

Applications

- Satellite
- · Wireless communications

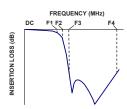
- Receivers / Transmitters

Functional Schematic





Typical Frequency Response



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

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

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

Electrical Specifications at 25°C

Frequency (MHz)

DC-137

150

DC-137

195-1500

195-1500

DC-F1

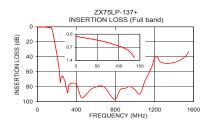
F2

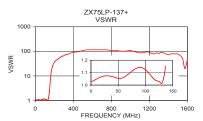
DC-F1

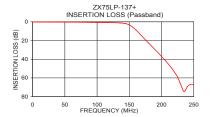
F3-F4

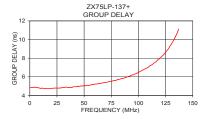
F3-F4

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	0.13	1.03	1	4.84
50	0.32	1.03	5	4.90
100	0.62	1.12	10	4.75
137	1.26	1.17	30	4.85
150	3.30	2.64	40	4.93
160	8.58	7.41	50	5.06
165	12.00	11.24	55	5.10
180	22.75	22.87	60	5.22
195	33.40	31.03	65	5.30
210	44.68	36.97	70	5.40
250	66.86	49.64	75	5.51
500	90.41	102.19	80	5.65
750	91.98	108.58	90	6.01
800	96.76	108.58	95	6.21
850	83.90	102.19	100	6.46
900	82.17	102.19	110	7.12
950	79.89	96.51	120	8.03
1000	84.19	102.19	130	9.44
1250	45.43	72.39	135	10.53
1500	41.38	75.53	137	11.13









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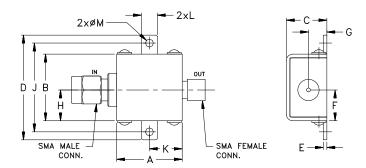
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Coaxial Connections

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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