Low Pass Filter

ZX75LP-137-S+

 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-S+ 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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Features

· High rejection

Applications Satellite

· Fast roll-off Good VSWR

· Low insertion loss

· Connectorized package

· Wireless communications • Receivers / Transmitters

Low Pass Filter

 50Ω DC to 137 MHz

ZX75LP-137-S+



Connectors Model

SMA-M\F ZX75LP-137-S+

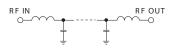
Flectrical Specifications at 25°C

Electrical opecinications at 20 °C							
Pa	Parameter		F# Frequency (MHz)		Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC-137	_	1.3	2.0	dB
Pass Band	Freq. Cut-Off	F2	150	_	3.0	_	dB
	VSWR	DC-F1	DC-137	_	1.2	1.7	:1
Stop Band	Rejection Loss	F3-F4	195-1500	20	33	_	dB
Stop Band	VSWB	F3-F4	195-1500	_	31	_	-1

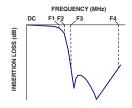
Maximum Ratings				
Operating Temperature	-40°C to 85°C			
Storage Temperature	-55°C to 100°C			
RF Power Input	0.5W max.			

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

Functional Schematic



Typical Frequency Response

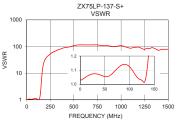


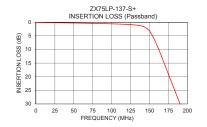
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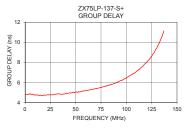
Typical Performance Data at 25°C

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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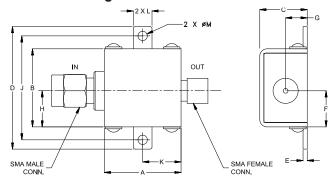
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Coaxial Connections

INPUT	SMA-Male
OUTPUT	SMA-Female

Outline Drawing



Outline Dimensions (inch)

	,	• 111111				
G	F	E	D	С	В	Α
.21	.349	.04	1.18	.46	.75	.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

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