Coaxial **Low Pass Filter**

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.



ZX75LP-137+

Notes

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Coaxial Low Pass Filter

50Q DC to 137 MHz

Features

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

Applications

- Satellite
- Wireless communications
- Receivers / Transmitters

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

Parameter

Pass Band

Insertion Loss

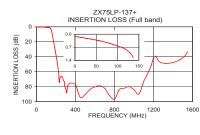
Freq. Cut-Off

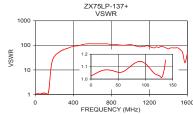
VOMD

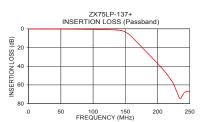
Permanent damage may occur if any of these limits are exceeded

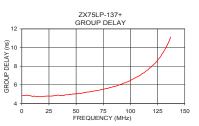
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	0.13	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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REV. A M160153 ZX75LP-137+ EDR10354U URJ/NY 161230 Page 2 of 3



CASE STYLE: KE1467 Connectors Model SMA-M\F ZX75LP-137-S+

Тур.

1.3

3.0

1 0

Max.

2.0

17

Unit

dB

dB

:1

dB

:1

Min.

Electrical Specifications at 25°C Frequency (MHz)

DC-137

150

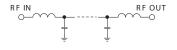
DC 127

F#

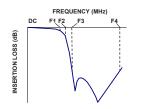
DC-F1

F2

Functional Schematic



Typical Frequency Response



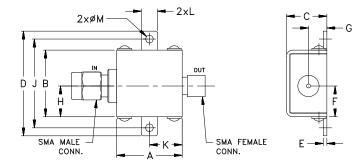


ZX75LP-137+

Coaxial Connections

INPUT	SMA-Male
OUTPUT	SMA-Female

Outline Drawing



Outline Dimensions (inch)

	-					
G	F	E	D	С	В	А
.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

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