

Coaxial Low Pass Filter

ZX75LP-137+

50Ω DC to 137 MHz



CASE STYLE: KE1467

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.



For detailed performance specs
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Low Pass Filter

50Ω DC to 137 MHz

ZX75LP-137+



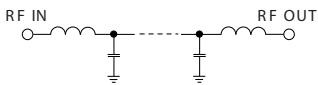
Features

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

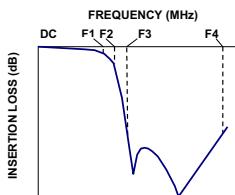
Applications

- Satellite
- Wireless communications
- Receivers / Transmitters

Functional Schematic



Typical Frequency Response



+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

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Connectors	Model	Price	Qty.
SMA-MF	ZX75LP-137-S+	\$49.95 ea.	(1-9)

Electrical Specifications at 25°C

	Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-F1	DC-137	—	1.3	2.0	dB
	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
	VSWR	F3-F4	195-1500	—	31	—	:1

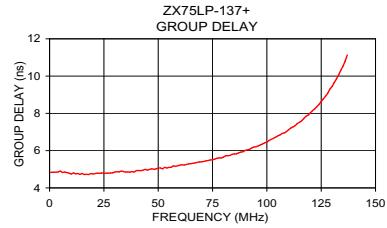
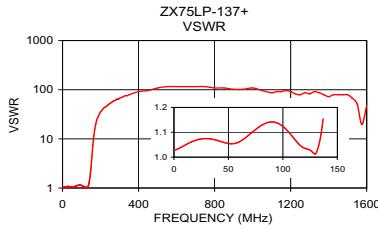
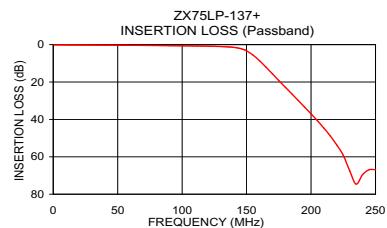
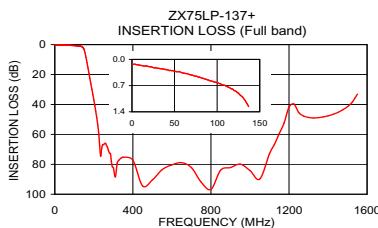
Maximum Ratings

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.

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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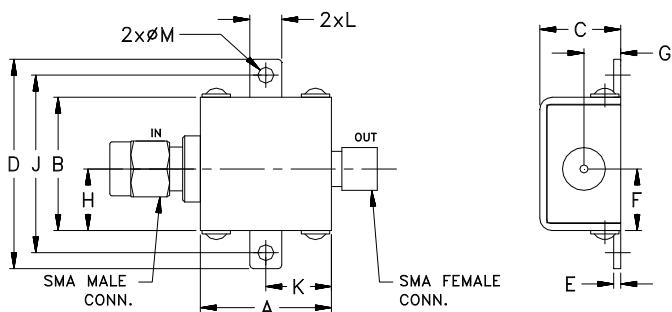
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Coaxial Connections

INPUT	SMA-Male
OUTPUT	SMA-Female

Outline Drawing



Outline Dimensions (inch)

A	B	C	D	E	F	G
0.74	.75	.46	1.18	.04	.349	.21
18.80	19.05	11.68	29.97	1.02	8.86	5.33

H	J	K	L	M	wt
.349	1.00	.37	.18	.09	grams

8.86 25.40 9.40 4.57 2.29 24.4

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