Coaxial Low Pass Filter

50Ω DC to 470 MHz

The Big Deal

- High rejection
- Low Insertion loss, 0.9 dB typical in passband
- Fast roll-off
- Good VSWR
- Connectorized package

Product Overview

ZX75LP-470+ is a 50 Ω low pass filter built in a connectorized package. Covering DC-470 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-470+



For detailed performance spece & shopping online see web site

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Coaxial **Low Pass Filter**

50Ω DC to 470 MHz

Features

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

Applications

Satellite

RE IN

БС

NSERTION LOSS (dB)

- Wireless communications
- Receivers / Transmitters

Functional Schematic

Typical Frequency Response

+ RoHS compliant in accordance

Compliance. See our web site for RoHS Compliance

methodologies and qualifications.

with EU Directive (2002/95/EC) The +Suffix has been added in order to identify RoHS

FREQUENCY (MHz)

RF OUT

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

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

Frequency (MHz)

DC-470

510

DC-470

650-2000

650-2000

F#

DC-F1

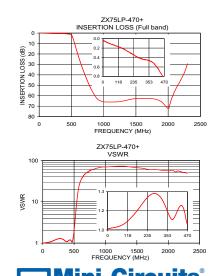
F2

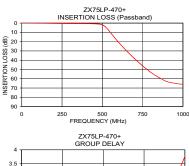
DC-F1

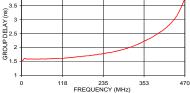
F3-F4

F3-F4

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)				
1	0.04	1.01	1	1.50				
28	0.08	1.02	10	1.61				
102	0.16	1.05	52	1.58				
216	0.32	1.23	106	1.60				
424	0.64	1.18	120	1.61				
450	0.76	1.16	158	1.66				
470	0.89	1.06	188	1.70				
480	1.04	1.22	214	1.73				
500	1.92	2.03	236	1.79				
510	2.85	2.87	266	1.85				
550	10.06	12.35	290	1.92				
580	16.48	24.48	318	2.03				
600	20.54	31.03	346	2.18				
650	29.91	43.44	370	2.33				
700	38.36	51.10	390	2.48				
800	53.12	59.91	400	2.56				
900	62.98	66.82	420	2.75				
1000	65.89	69.49	442	3.05				
1500	62.72	66.82	456	3.35				
2000	72.18	56.04	470	3.77				







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IF/RF MICROWAVE COMPONENTS

REV OR M132434 ZX75LP-470+ EDR10349U UB.I 110808 Page 2 of 3

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Connectors Model SMA-M\F ZX75LP-470-S+ \$49.95 ea. (1-9) Electrical Specifications at 25°C

Min.

20

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ZX75LP-470+



Price

Max.

2.0

1.7

Qty.

Unit

dB

dB

:1

dB

:1

CASE STYLE: KE1467

Тур.

0.9

3.0

1.3

30

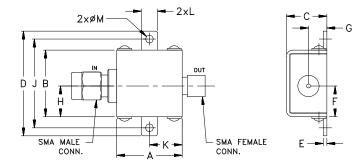
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ZX75LP-470+

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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