Low Pass Filter

ZX75LP-470+

 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 50Ω 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.

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Low Pass Filter

50Q DC to 470 MHz

ZX75LP-470+



Connectors Model

SMA-M\F ZX75LP-470-S+

Features

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

Applications

- Satellite
- · Wireless communications
- Receivers / Transmitters

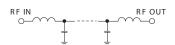
Electrical Specifications at 25°C

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Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC-470	_	0.9	2.0	dB
Pass Band	Freq. Cut-Off	F2	510	_	3.0	_	dB
	VSWR	DC-F1	DC-470	_	1.3	1.7	:1
Stop Band	Rejection Loss	F3-F4	650-2000	20	30	_	dB
Stop Band	VSWR	F3-F4	650-2000	_	37	_	:1

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

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

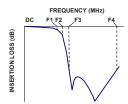
Functional Schematic



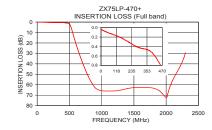
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	0.04	1.01	1	1.50
28	0.08	1.02	10	1.61
102	0.16	1.05	52	1.58
216	0.32	1.23	106	1.60
424	0.64	1.18	120	1.61
450	0.76	1.16	158	1.66
470	0.89	1.06	188	1.70
480	1.04	1.22	214	1.73
500	1.92	2.03	236	1.79
510	2.85	2.87	266	1.85
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

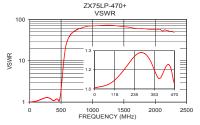
Typical Performance Data at 25°C

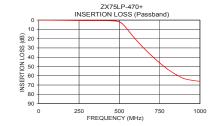
Typical Frequency Response

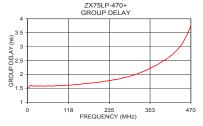


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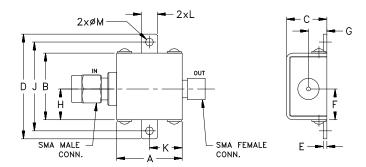
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Coaxial Connections

INPUT	SMA-Male
OUTPUT	SMA-Female

Outline Drawing



Outline Dimensions (inch)

G	F	Е	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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