Coaxial **.ow Pass Filter**

50Ω DC to 470 MHz

ZX75LP-470-S+

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-S+ 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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Coaxial Low Pass Filter

50 Ω DC to 470 MHz

Features

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

Applications

Satellite

RF IN O-

INSERTION LOSS (dB)

- Wireless communications
- Receivers / Transmitters

Functional Schematic

Typical Frequency Response

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

FREQUENCY (MHz) F1 F2 F3 RF OUT

ZX75LP-470-S+



CASE STYLE: KE1467 Connectors Model SMA-M\F ZX75LP-470-S+

Electrical Specifications at 25°C

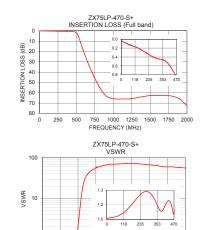
Pa	rameter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC-470	—	0.9	2.0	dB
Pass Band	Freq. Cut-Off	F2	510	—	3.0	—	dB
	VSWR	DC-F1	DC-470	—	1.3	1.7	:1
Stop Band	Rejection Loss	F3-F4	650-2000	20	30	_	dB
Stop Banu	VSWR	F3-F4	650-2000	—	37	—	:1

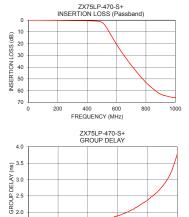
Maximum	Ratings
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W max.

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	0.04	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





1.5

94

188

FREQUENCY (MHz)

376

470



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0 250 500

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FREQUENCY (MHz)

750 1000 1250 1500 1750 2000

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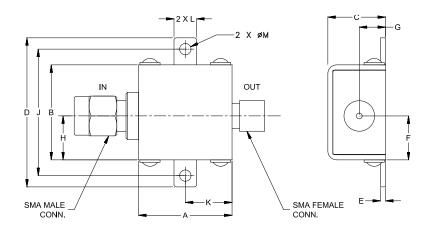
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Coaxial Connections

INPUT	SMA-Male
OUTPUT	SMA-Female

Outline Drawing



Outline Dimensions (inch)

А	В	С	D	Е	F	G
.74	.75	.46	1.18	.04	.349	.21
18.80	19.05	11.68	29.97	1.02	8.86	5.33
н	J	к	L	М		Wt.
H .349	ر 1.00	К . 37	L .18	M .09		Wt. grams

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