

Coaxial
Low Pass Filter

ZX75LP-900+

50Ω DC to 900 MHz



CASE STYLE: KE1467

The Big Deal

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

Product Overview

ZX75LP-900+ is a 50Ω low pass filter built in a connectorized package. Covering DC-900 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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IF/RF MICROWAVE COMPONENTS

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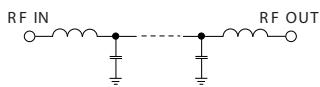
Features

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

Applications

- Satellite
- Wireless communications
- Receivers / Transmitters

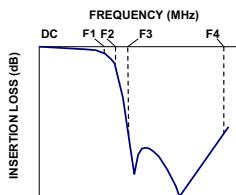
Functional Schematic



| 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.

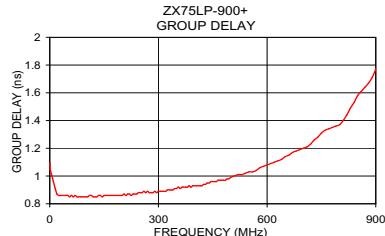
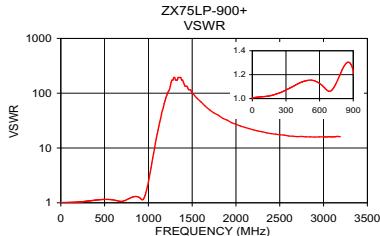
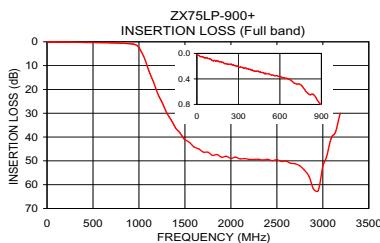
Typical Frequency Response



| Frequency (MHz) | Insertion Loss (dB) | VSWR (:1) | Frequency (MHz) | Group Delay (nsec) |
|-----------------|---------------------|-----------|-----------------|--------------------|
| 1 | 0.02 | 1.01 | 1 | 1.05 |
| 20 | 0.04 | 1.01 | 10 | 0.96 |
| 80 | 0.08 | 1.01 | 25 | 0.86 |
| 200 | 0.16 | 1.03 | 60 | 0.86 |
| 490 | 0.32 | 1.15 | 140 | 0.86 |
| 810 | 0.64 | 1.26 | 220 | 0.87 |
| 900 | 0.81 | 1.24 | 285 | 0.88 |
| 930 | 0.91 | 1.13 | 350 | 0.91 |
| 950 | 1.06 | 1.22 | 425 | 0.94 |
| 980 | 1.62 | 1.73 | 500 | 0.99 |
| 1000 | 2.48 | 2.40 | 550 | 1.03 |
| 1200 | 21.30 | 82.73 | 580 | 1.06 |
| 1300 | 29.68 | 193.02 | 600 | 1.08 |
| 1400 | 36.32 | 157.93 | 640 | 1.12 |
| 1500 | 41.09 | 102.19 | 700 | 1.20 |
| 1600 | 44.20 | 69.49 | 750 | 1.31 |
| 1800 | 47.72 | 39.49 | 800 | 1.37 |
| 2000 | 48.94 | 27.16 | 850 | 1.58 |
| 2500 | 49.52 | 17.39 | 880 | 1.67 |
| 2900 | 61.93 | 15.81 | 900 | 1.77 |

+ 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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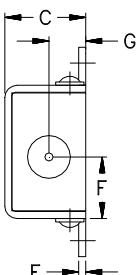
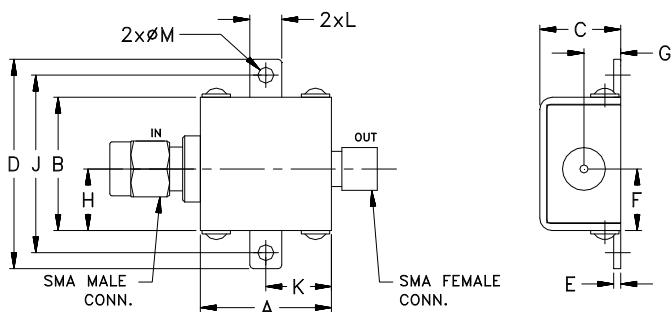
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Coaxial Connections

| | |
|--------|------------|
| 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 | |
| 8.86 | 25.40 | 9.40 | 4.57 | 2.29 | 24.4 |



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