



LUMPED LC COAXIAL

Bandpass Filter

ZX75BP-98-S+

50Ω 75 to 131 MHz SMA-Male to SMA-Female

KEY FEATURES

- Good Insertion Loss, 3dB Max.
- Stop Band Return Loss, 12dB Min.
- Stop Band Rejection, 30dB Typ.

APPLICATIONS

- FM Communication
- Aircraft Communication

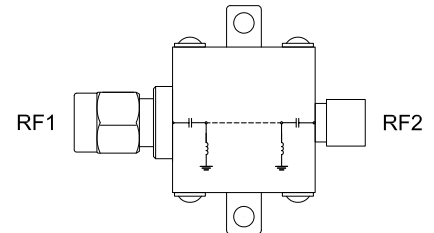
PRODUCT OVERVIEW

ZX75BP-98-S+ is a 50Ω bandpass filter in a connectorized package covering 75 to 131MHz. This offers good matching within the passband and high rejection in stopband.



Generic photo used for illustration purposes only

FUNCTIONAL DIAGRAM



ELECTRICAL SPECIFICATIONS¹ AT +25°C

| Parameter | F# | Frequency (MHz) | Min. | Typ. | Max. | Units |
|------------------|------------------|-----------------|-------------|------|------|-------|
| Passband | Center Frequency | Fc | — | 103 | — | MHz |
| | Insertion Loss | F1-F2 | 75 - 131 | — | 3 | dB |
| | Return Loss | F1-F2 | 75 - 131 | 11.8 | — | dB |
| Stop Band, Lower | Rejection | DC-F3 | DC - 45 | 35 | — | dB |
| | | F3-F4 | 45 - 55 | 20 | — | dB |
| Stop Band, Upper | Rejection | F5-F6 | 170 - 210 | 20 | — | dB |
| | | F6-F7 | 210 - 2000 | 35 | — | dB |
| | | F7-F8 | 2000 - 3500 | — | 30 | — |

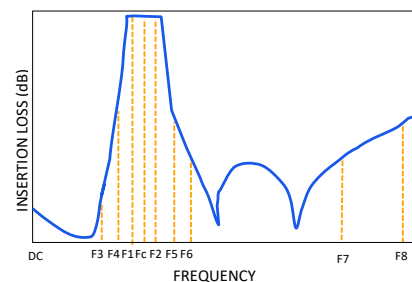
1. This filter is bi-directional RF1 and RF2 ports may be interchanged, see S-Parameters for actual performance.

ABSOLUTE MAXIMUM RATINGS²

| Parameter | Ratings |
|--------------------------|------------------|
| Operating Temperature | -40°C to + 85°C |
| Storage Temperature | -55°C to + 100°C |
| Input Power ³ | 0.5W at 25°C |

2. Permanent damage may occur if any of these limits are exceeded.
3. Power rating applies only to signals within the passband.

TYPICAL FREQUENCY RESPONSE AT +25°C





LUMPED LC COAXIAL

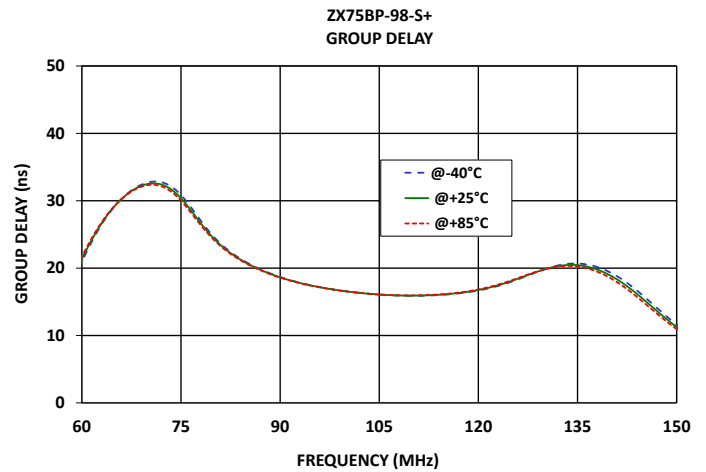
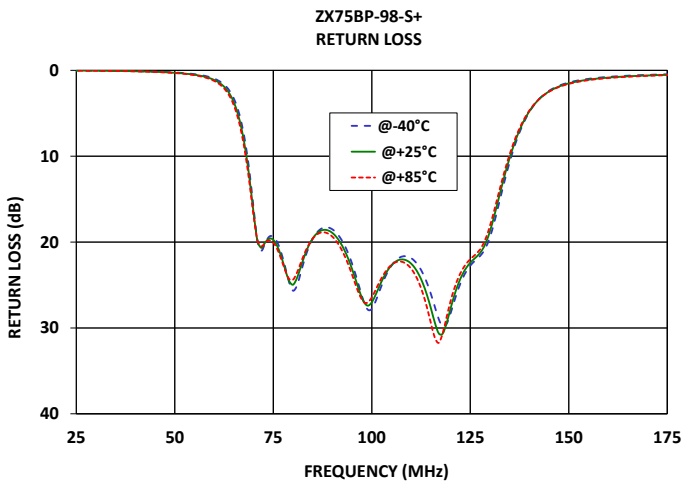
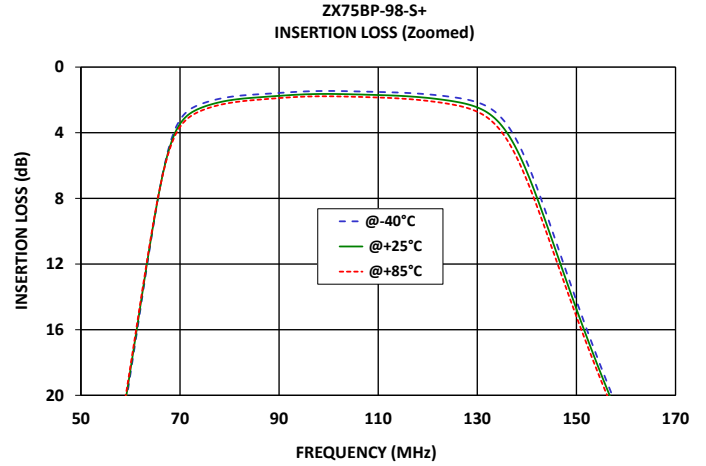
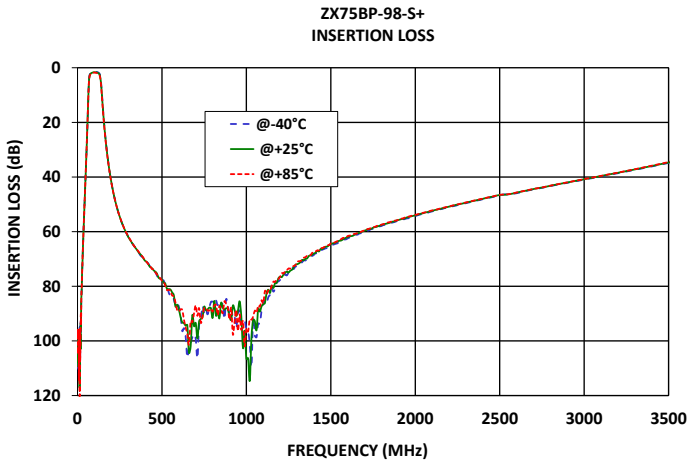
Bandpass Filter

ZX75BP-98-S+

Mini-Circuits

50Ω 75 to 131 MHz SMA-Male to SMA-Female

TYPICAL PERFORMANCE GRAPHS





LUMPED LC COAXIAL

Bandpass Filter

ZX75BP-98-S+

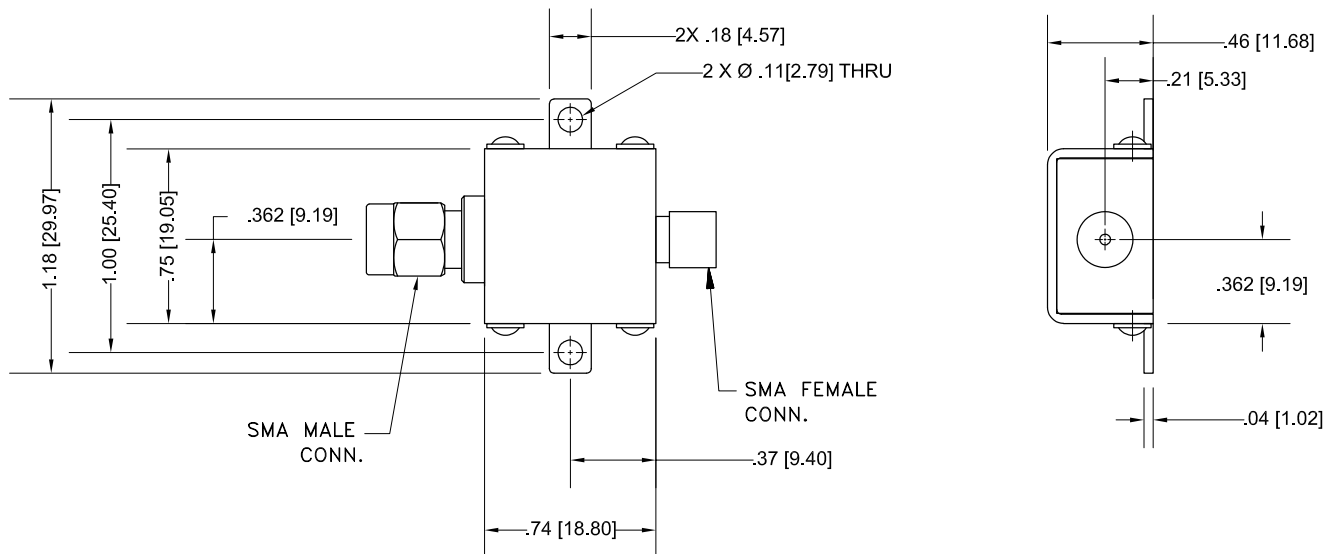
Mini-Circuits

50Ω 75 to 131 MHz SMA-Male to SMA-Female

CONNECTOR DESCRIPTION

| Function | Marking on Unit | Connector |
|------------------|-----------------|------------|
| RF1 ¹ | 1 | SMA Male |
| RF2 ¹ | 2 | SMA Female |

CASE STYLE DRAWING



Weight: 24.4 gram

Dimensions are in inches (mm). Tolerances: 2PI. ± .03; 3PI. ± .015

Tolerance on hole size and interaxes dimensions to be ± .005.

PRODUCT MARKING*: ZX75BP-98-S+

*Marking may contain other features or characters for internal lot control.



LUMPED LC COAXIAL

Bandpass Filter

ZX75BP-98-S+

Mini-Circuits

50Ω 75 to 131 MHz SMA-Male to SMA-Female

ADDITIONAL INFORMATION IS AVAILABLE ON OUR DASHBOARD

[CLICK HERE](#)

| | |
|---------------------------|---|
| Performance Data & Graphs | <p>Data</p> <p>Graphs</p> <p>S-Parameter (S2P Files) Data Set (.zip file)</p> |
| Case Style | KE1467 |
| RoHS Status | Compliant |
| Environmental Ratings | ENV46 |

NOTES

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuits' applicable established test performance criteria and measurement instructions.
- C. The parts covered by this specification document are subject to Mini-Circuits' standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the standard terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/terms/viewterm.html

