

Coaxial Band Stop Filter

ZX75BS-75+

50Ω 65 to 85 MHz

The Big Deal

- High rejection
- Stopband (65 to 85 MHz)
- Connectorized package



CASE STYLE: KD1465

Product Overview

The ZX75BS-75+ is a band stop filter built in rugged and compact connectorized package. This filter offers good rejection in stopband. It has repeatable performance across lots and consistent performance across temperature. Useful in instrumentation system for industrial applications.

Key Features

| Feature | Advantages |
|-----------------------|--|
| High rejection | ZX75BS-75+ enables the filter to attenuate spurious signals without compromising pass band signal. |
| Connectorized package | The connectorized package is easy to interface with other devices and well suited for test setups |
| Application | Useful in broadcast systems and SATCOM transceiver |

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-Circuit's applicable established test performance criteria and measurement instructions.
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Coaxial Band Stop Filter

50Ω 65 to 85 MHz

ZX75BS-75+



CASE STYLE: KD1465

Connectors Model
SMA-MF ZX75BS-75-S+

Features

- High rejection
- Fast roll-off
- Connectorized package

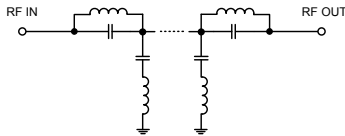
Applications

- FM radio
- Broadcast systems
- SATCOM transceiver
- Lab use

Electrical Specifications at 25°C

| Parameter | F# | Frequency (MHz) | Min. | Typ. | Max. | Unit | |
|------------------|----------------|-----------------|------------|------|------|------|----|
| Pass Band, Lower | Insertion Loss | DC-F1 | DC - 48 | - | 0.6 | 1.5 | dB |
| | VSWR | DC-F1 | DC - 48 | - | 1.3 | 1.7 | :1 |
| Stop Band | Rejection | F4-F5 | 65 - 85 | 30 | 47 | - | dB |
| | VSWR | F4-F5 | 65 - 85 | - | 23 | - | :1 |
| Pass Band, Upper | Insertion Loss | F2-F3 | 115 - 1000 | - | 0.7 | 1.5 | dB |
| | VSWR | F2-F3 | 115 - 1000 | - | 1.4 | 1.9 | :1 |

Functional Schematic



Maximum Ratings

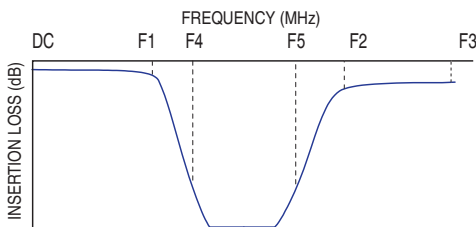
| | |
|-----------------------|----------------|
| Operating Temperature | -40°C to 85°C |
| Storage Temperature | -55°C to 100°C |
| RF Power Input | 250 mW max. |

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

Typical Performance Data at 25°C

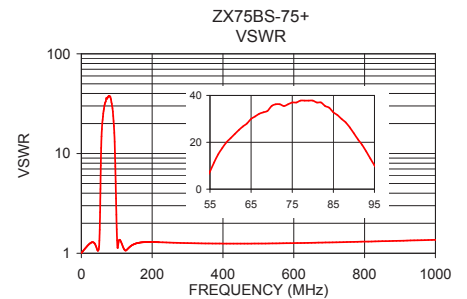
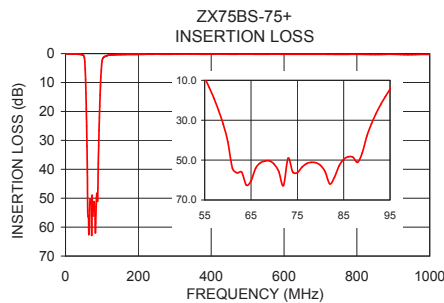
| Frequency (MHz) | Insertion Loss (dB) | VSWR (:1) |
|-----------------|---------------------|-----------|
| 1 | 0.02 | 1.01 |
| 25 | 0.14 | 1.26 |
| 48 | 0.52 | 1.07 |
| 52 | 1.55 | 1.72 |
| 55 | 8.93 | 7.56 |
| 57 | 19.02 | 14.87 |
| 60 | 40.90 | 21.73 |
| 62 | 56.39 | 25.19 |
| 65 | 60.42 | 29.96 |
| 75 | 56.25 | 36.97 |
| 85 | 49.65 | 32.79 |
| 89 | 46.35 | 28.33 |
| 93 | 22.10 | 16.11 |
| 95 | 14.44 | 10.19 |
| 98 | 5.87 | 3.54 |
| 100 | 2.91 | 1.74 |
| 105 | 1.24 | 1.29 |
| 115 | 0.66 | 1.23 |
| 500 | 0.19 | 1.25 |
| 1000 | 0.29 | 1.36 |

Typical Frequency Response



+RoHS Compliant

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



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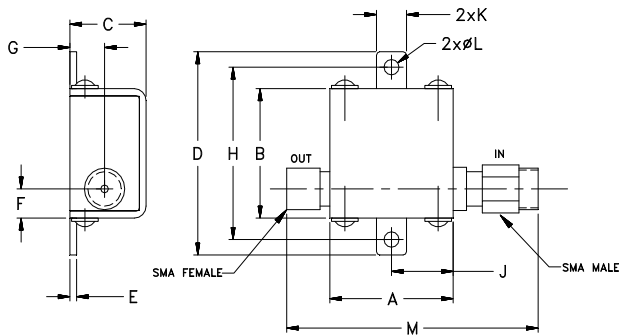
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M160153
ZX75BS-75+
EDU1300
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161230
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Coaxial Connections

| | |
|--------|------------|
| INPUT | SMA-Male |
| OUTPUT | SMA-Female |

Outline Drawing



Outline Dimensions ($\frac{\text{inch}}{\text{mm}}$)

| | | | | | | | |
|-------|-------|-------|-------|------|------|-------|--|
| A | B | C | D | E | F | | |
| .74 | .75 | .46 | 1.18 | .04 | .17 | | |
| 18.80 | 19.05 | 11.68 | 29.97 | 1.02 | 4.32 | | |
| G | H | J | K | L | M | wt. | |
| .21 | 1.00 | .37 | .18 | .09 | 1.51 | grams | |
| 5.33 | 25.40 | 9.40 | 4.57 | 2.29 | 38.4 | 21.4 | |

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