CERAMIC RESONATOR COAXIAL

# Band Stop Filter

# ZCBS4-632-S+

50Ω 622 to 642 MHz SMA-Male/Female

## KEY FEATURES

- Low Insertion Loss, 1.3 dB Typ.
- Fast Roll-off
- Connectorized Package

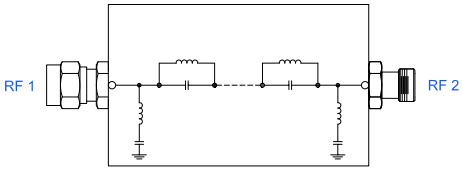


*Generic photo used for illustration purposes only*

## APPLICATIONS

- Radio Astronomy

## FUNCTIONAL DIAGRAM




## PRODUCT OVERVIEW

Mini-Circuits' ZCBS4-632-S+ is a Ceramic resonator band stop filter that offer a good insertion loss and high rejection. This band stop filter rejects from 622 to 642 MHz. While passing 400 - 610 MHz and 655 - 800 MHz, this filter has high Q capacitors and inductors to achieve a low insertion loss. It has repeatable performance across production lots.

## ELECTRICAL SPECIFICATIONS AT +25°C

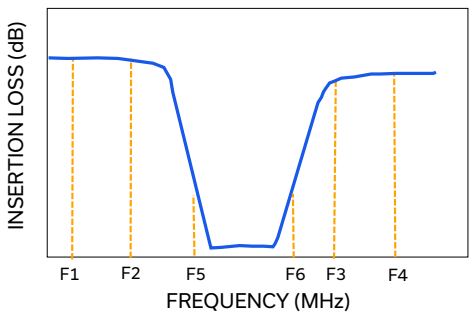
| Parameter | | F# | Frequency (MHz) | Min. | Typ. | Max. | Units |
|---|---|---|---|---|---|---|---|
| Passband, Lower | Insertion Loss | F1-F2 | 400 - 610 | — | 1.3 | 2 | dB |
| | Return Loss | F1-F2 | 400 - 610 | 10 | 14 | — | dB |
| Stopband | Rejection | F5-F6 | 622 - 642 | 12 | 16 | — | dB |
| Passband, Upper | Insertion Loss | F3-F4 | 655 - 800 | — | 1.3 | 2 | dB |
| | Return Loss | F3-F4 | 655 - 800 | 10 | 14 | — | |

## ABSOLUTE MAXIMUM RATINGS[1]

| | |
|---|---|
| **Operating Temperature** | -40°C to +85°C |
| **Storage Temperature** | -55°C to +100°C |
| Input Power[2] | 5 W at +25°C |

1. Permanent damage may occur if any of these limits are exceeded.
2. Power rating applies only to signals within the passband. Power rating above +25°C operating temperature decreases linearly to 1 W at +85°C.

## TYPICAL FREQUENCY RESPONSE



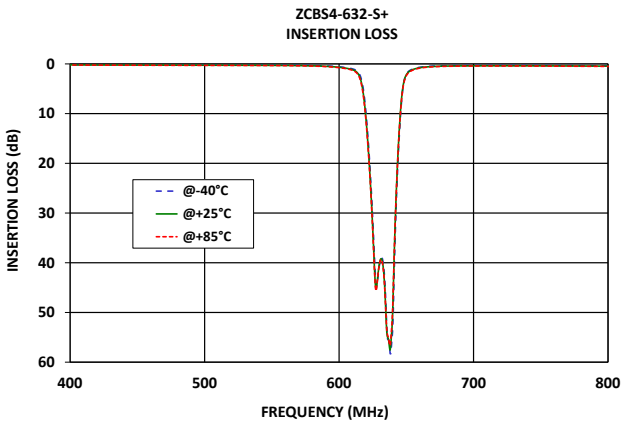

REV. OR
ECO-030757
ZCBS4-632-S+
EDU5510
URJ
260818

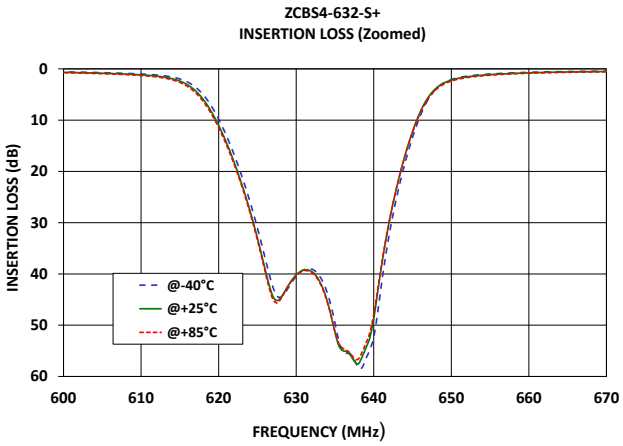
# Band Stop Filter

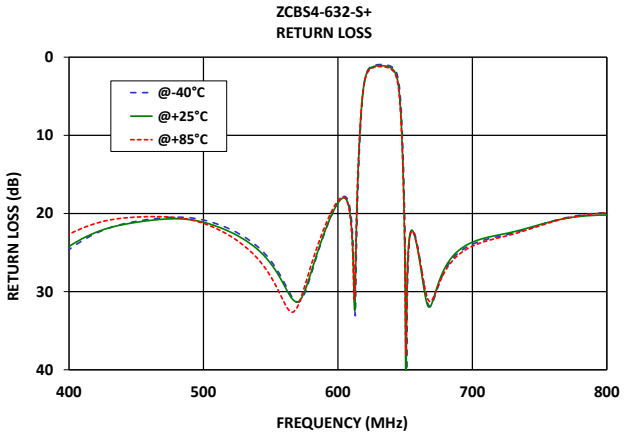
## ZCBS4-632-S+

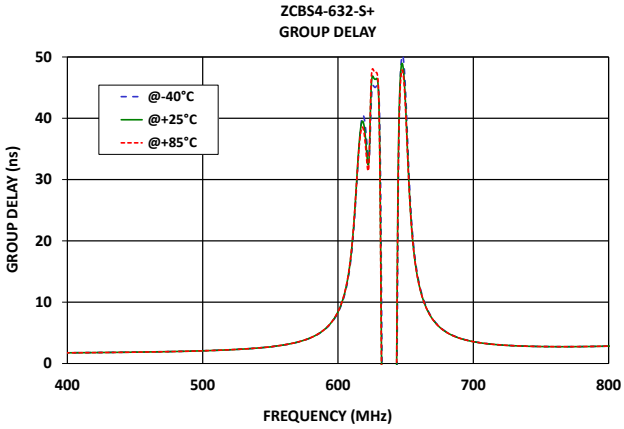
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### TYPICAL PERFORMANCE GRAPHS



# Band Stop Filter

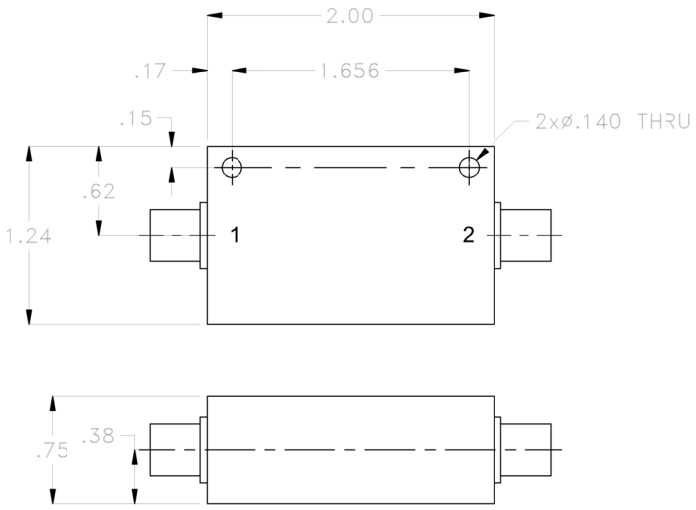
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## CONNECTOR DESCRIPTION

| Function | Connector |
|---|---|
| RF1 | SMA-Male |
| RF2 | SMA-Female |

## CASE STYLE DRAWING




**Weight: 57 gram**
**Dimensions are in inches (mm). Tolerances: 2Pl. ± .03; 3Pl. ± .015**

## PRODUCT MARKING*: ZCBS4-632-S+

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

# Band Stop Filter

## ZCBS4-632-S+

50Ω 622 to 642 MHz SMA-Male/Female

**ADDITIONAL INFORMATION IS AVAILABLE ON OUR DASHBOARD** CLICK HERE

| | |
|---|---|
| **Performance Data & Graphs** | Data<br>Graphs<br>S-Parameter (S2P Files) Data Set (.zip file) |
| **Case Style** | FM587-1 |
| **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