# **Band Stop Filter**

ZX75BS-100+

 $50\Omega$ 

90.365 to 109.635 MHz

# The Big Deal

- · High rejection
- Stopband (90.365 to 109.635 MHz)
- Connectorized package



CASE STYLE: KD1465

## **Product Overview**

The ZX75BS-100+ 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-100+ 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	Can be used in broadcast and FM systems.		

#### 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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# **Band Stop Filter**

50Q 90.365 to 109.635 MHz

# ZX75BS-100+



Connectors Model

SMA-M\F ZX75BS-100-S+

### Electrical Specifications at 25°C

Para	meter	F#	Frequency (MHz)	Frequency (MHz) Min.		Max.	Unit
Pass Band, Lower	Insertion Loss	DC-F1	DC - 70	-	0.6	1.5	dB
Pass Ballu, Lower	VSWR	DC-F1	DC - 70	-	1.2	1.6	:1
Stop Band	Rejection	F4-F5	90.365 - 109.635	30	46	-	dB
	VSWR	F4-F5	90.365 - 109.635	-	14	-	:1
Pass Band, Upper	Insertion Loss	F2-F3	146 - 1000	-	0.7	1.5	dB
	VSWR	F2-F3	146 - 1000	-	1.3	1.7	:1

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.

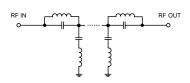
## **Features**

- · High rejection
- · Fast roll-off
- Connectorized package

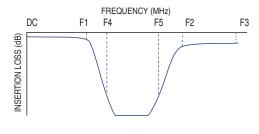
#### **Applications** FM radio

- · Broadcast systems
- · Lab use

#### **Functional Schematic**

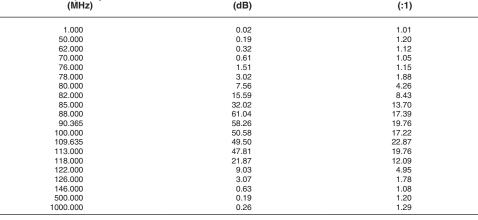


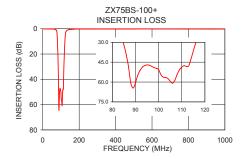
#### **Typical Frequency Response**

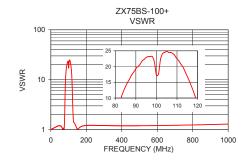


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#### Typical Performance Data at 25°C Frequency **Insertion Loss** (MHz) (dB)







**VSWR** 

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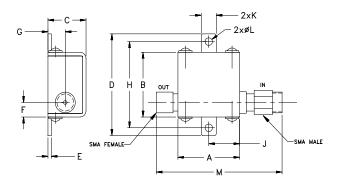
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#### **Coaxial Connections**

INPUT	SMA-Male
OUTPUT	SMA-Female

#### **Outline Drawing**



### Outline Dimensions (inch )

		.04	D 1.18			.74
	4.32	1.02	29.97	11.68	19.05	18.80
wt. grams			.18			
21.4	38.4	2.29	4.57	9.40	25.40	5.33

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