

# Coaxial Band Stop Filter

## ZX75BS-88108+

50Ω 88 to 108 MHz

### The Big Deal

- High rejection
- Stopband (88 to 108 MHz)
- Connectorized package



CASE STYLE: KD1465

### Product Overview

The ZX75BS-88108+ 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 Radio and TV broadcast systems to minimize spurious signal and avoid system jamming.

### Key Features

Feature	Advantages
High rejection	ZX75BS-88108+ 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

## ZX75BS-88108+

50Ω 88 to 108 MHz



CASE STYLE: KD1465

Connectors Model  
SMA-MF ZX75BS-88108-S+

### Features

- High rejection
- Fast roll-off
- Connectorized package

### Applications

- FM radio
- Broadcast systems
- Lab use

### Electrical Specifications at 25°C

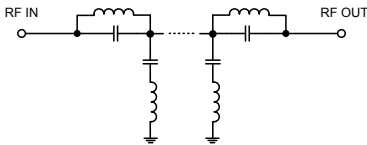
Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit	
Pass Band, Lower	Insertion Loss	DC-F1	DC - 66	-	0.6	1.5	dB
	VSWR	DC-F1	DC - 66	-	1.2	1.6	:1
Stop Band	Rejection	F4-F5	88 - 108	30	47	-	dB
	VSWR	F4-F5	88 - 108	-	14	-	:1
Pass Band, Upper	Insertion Loss	F2-F3	142 - 1000	-	0.8	1.5	dB
	VSWR	F2-F3	142 - 1000	-	1.4	1.8	: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.

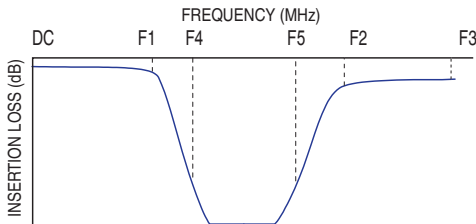
### Functional Schematic



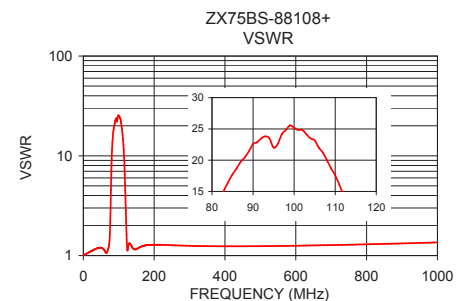
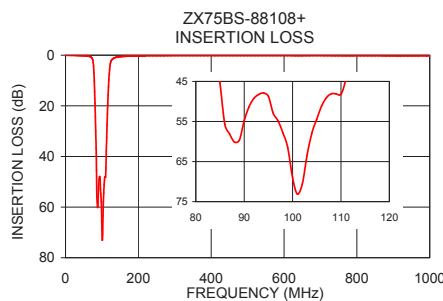
### Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1	0.02	1.01
44	0.16	1.20
61	0.33	1.11
66	0.48	1.06
72	1.02	1.24
76	2.88	2.13
78	6.91	4.57
80	14.37	9.28
84	36.84	16.56
88	60.15	20.45
108	48.07	19.98
112	38.14	14.50
116	19.28	8.12
119	9.77	3.85
122	4.28	1.63
126	2.05	1.19
135	1.02	1.27
142	0.72	1.17
180	0.36	1.27
1000	0.31	1.35

### Typical Frequency Response



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



### Notes

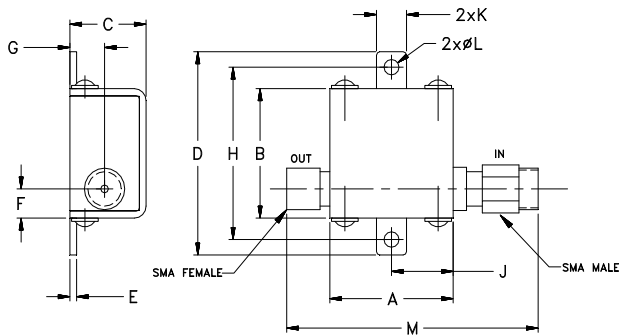
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## Coaxial Connections

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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