

Coaxial Band Stop Filter

ZX75BS-125+

50Ω 110.25 to 139.75 MHz

The Big Deal

- High rejection
- Stopband (110.25 to 139.75 MHz)
- Connectorized package



CASE STYLE: KD1465

Product Overview

The ZX75BS-125+ 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-125+ 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 applications such Air-traffic control radar and Avionic 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

50Ω

110.25 to 139.75 MHz

ZX75BS-125+



CASE STYLE: KD1465

Connectors	Model
SMA-MF	ZX75BS-125-S+

Features

- High rejection
- Fast roll-off
- Connectorized package

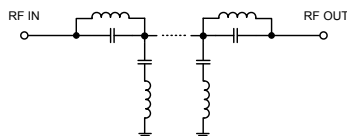
Applications

- Air-traffic control radar system
- Avionic systems
- Lab use

Electrical Specifications at 25°C

Parameter		F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band, Lower	Insertion Loss	DC-F1	DC - 84	-	0.6	1.5	dB
	VSWR	DC-F1	DC - 84	-	1.2	1.6	:1
Stop Band	Rejection	F4-F5	110.25 - 139.75	30	45	-	dB
	VSWR	F4-F5	110.25 - 139.75	-	11	-	:1
Pass Band, Upper	Insertion Loss	F2-F3	196 - 1000	-	0.6	1.5	dB
	VSWR	F2-F3	196 - 1000	-	1.3	1.8	:1

Functional Schematic



Maximum Ratings

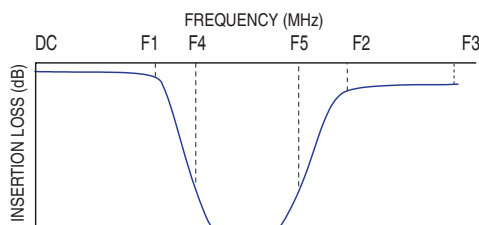
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	250 mW max.

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

Typical Performance Data at 25°C

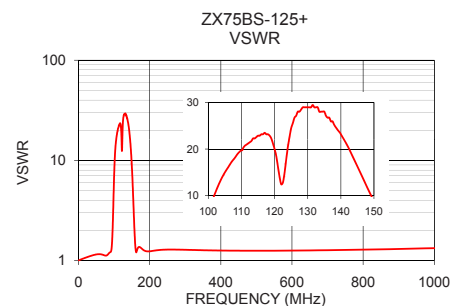
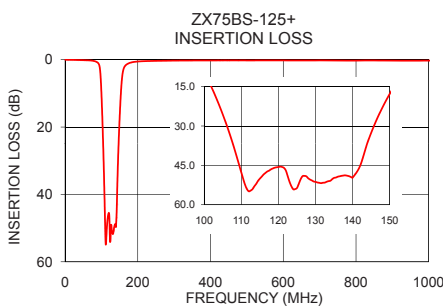
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	0.02	1.01
60.00	0.18	1.16
84.00	0.52	1.16
90.00	0.89	1.22
96.00	2.71	2.08
98.00	5.26	3.65
102.00	15.39	10.43
106.00	29.54	16.11
110.25	49.01	19.76
125.00	53.60	24.48
139.75	49.58	23.49
144.00	36.37	17.75
146.00	29.13	14.74
150.00	17.77	8.77
154.00	9.31	4.05
160.00	3.15	1.36
170.00	1.37	1.37
196.00	0.58	1.23
500.00	0.22	1.25
1000.00	0.26	1.33

Typical Frequency Response



+RoHS Compliant

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



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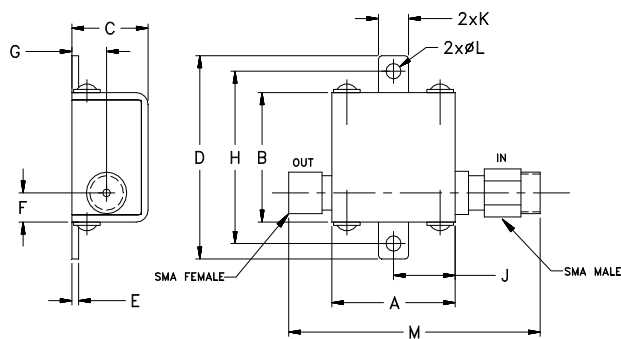


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Coaxial Connections

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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