Coaxial

Band Stop Filter

ZX75BS-70-S+

50Ω 56.75 to 83.25 MHz

CASE STYLE: KD1465

The Big Deal

- High rejection
- Stopband (56.75 to 83.25 MHz)
- Connectorized package

Product Overview

The ZX75BS-70-S+ 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-70-S+ 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. Can be used for IF leakage suppression.

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Connectors	Model
SMA-M\F	ZX75BS-70-S+

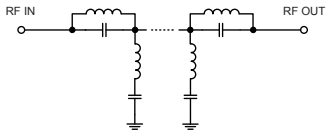
Features

- High rejection
- Fast roll-off
- Connectorized package

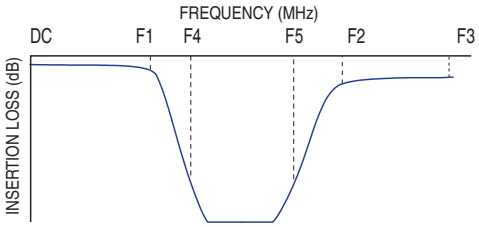
Applications

- FM radio
- Broadcast systems
- SATCOM transceiver
- IF leakage suppression
- Lab use

Functional Schematic



Typical Frequency Response



Electrical Specifications at 25°C

Parameter		F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band, Lower	Insertion Loss	DC-F1	DC - 37	-	0.4	1.5	dB
	VSWR	DC-F1	DC - 37	-	1.3	1.7	:1
Stop Band	Rejection	F4-F5	56.75 - 83.25	30	46	-	dB
	VSWR	F4-F5	56.75 - 83.25	-	14	-	:1
Pass Band, Upper	Insertion Loss	F2-F3	120 - 1000	-	0.7	1.5	dB
	VSWR	F2-F3	120 - 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.

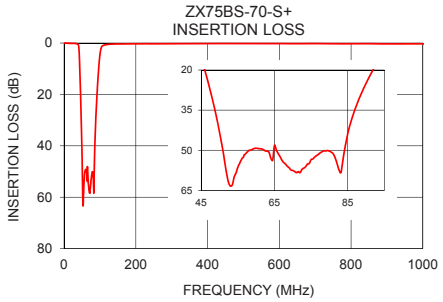
Permanent damage may occur if any of these limits are exceeded.

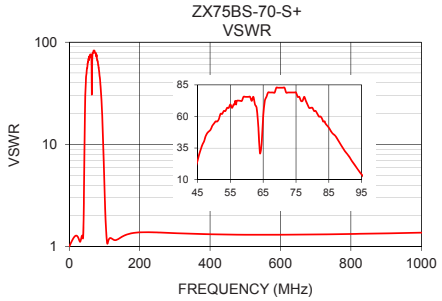
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	0.02	1.02
37.00	0.40	1.28
40.00	0.77	1.41
41.00	1.54	2.15
42.00	3.41	4.02
43.00	6.65	8.31
45.00	15.37	24.83
48.00	30.67	46.96
50.00	43.31	54.29
56.75	51.67	69.49
70.00	57.56	82.73
83.25	57.98	56.04
87.00	34.65	44.55
93.00	17.32	21.20
98.00	7.30	6.49
101.00	3.53	2.91
105.00	1.47	1.37
120.00	0.60	1.20
500.00	0.25	1.31
1000.00	0.33	1.37

+RoHS Compliant

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





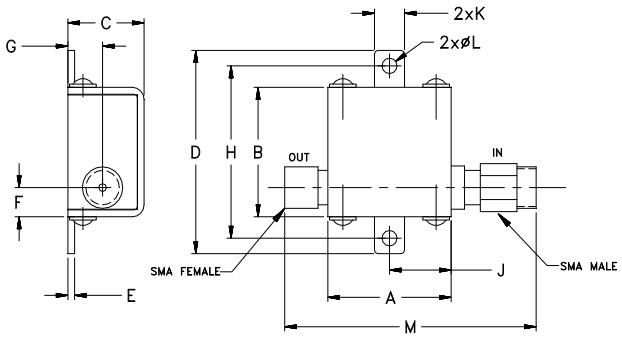
Notes

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.
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/MCLStore/terms.jsp

Coaxial Connections

INPUT	SMA-Male
OUTPUT	SMA-Female

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	F	G
.74	**.75**	**.46**	**1.18**	**.04**	**.17**	**.21**
18.80	19.05	11.68	29.97	1.02	4.32	5.33

H	J	K	L	M		Wt.
1.00	**.37**	**.18**	**.09**	**1.51**		grams
25.40	9.40	4.57	2.29	38.4		21.4