Bandpass Filter

ZX75BP-2150-S+

 50Ω 2050 to 2250 MHz

The Big Deal

- Fast roll-off on the upper sideband
- · Good Matching and low loss in the pass band
- Connectorized package



Generic photo used for illustration purposes only CASE STYLE: KE1467

Product Overview

ZX75BP-2150-S+ is a wideband bandpass filter in a rugged connectorized package covering 2050 to 2250 MHz. This is designed for asymmetric rejection applications such as super-heterodyne receivers. By having asymmetric band, faster roll-off at upper side band is achieved in a comparatively smaller package and lower pass band insertion loss. It has repeatable performance across lots and consistent performance across temperature

Key Features

Feature	Advantages		
Fast roll-off on the upper side band	Wide bandwidth filter with fast-roll off on the upper side band, which increases selectivity on the adjacent channel.		
Good matching and low loss in pass band	This filter has good matching and low loss in the pass band		
Connectorized package	Connectorized package is easy to interface with other devices and well suited for test setups.		
High power handling	This model uses high Q capacitors and high current handling inductors which is well suited for high power applications.		

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 arranty 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

Features

Bandpass Filter

50Ω 2050 to 2250 MHz

ZX75BP-2150-S+



Generic photo used for illustration purposes only CASE STYLE: KE1467

Connectors Model

SMA-M\F ZX75BP-2150-S+

20

:1

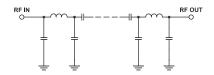
• Fast roll-off on the upper side band

- Good matching in the pass band
- Connectorized package

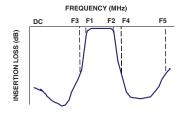
Applications

- Defense systems
- Fixed microwave
- IMT
- · Auxiliary broadcasting
- · Private and public land mobile

Functional Schematic



Typical Frequency Response



+RoHS Compliant

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

Parameter Frequency (MHz) Тур. Max. Unit MHz Center Frequency 2150 Pass Band Insertion Loss F1-F2 2050-2250 0.8 2.0 dB F1-F2 **VSWR** 2050-2250 1.3 1.78 :1 Insertion Loss DC-F3 DC - 600 20 29 dB Stop Band, Lower **VSWR** DC-F3 DC - 600 2720-4500 20 dB Insertion Loss F4-F5 29

2720-4500

F4-F5

Electrical Specifications at 25°C

Maximum Ratings			
Operating Temperature	-40°C to 85°C		
Storage Temperature	-55°C to 100°C		
RF Power Input	6.3 W max.		

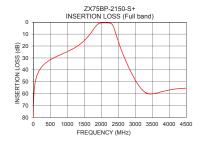
VSWR

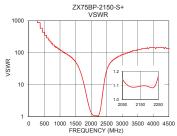
Stop Band, Upper

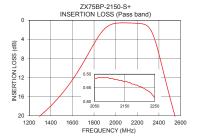
Permanent damage may occur if any of these limits are exceeded.

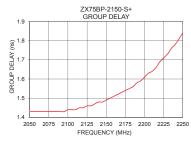
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
(WHZ) 1 50 525 600 1250 1500 1725 1850 1900 2050 2150 2250 2310 2350 2400 2500 2560	85.06 51.32 31.10 29.95 20.93 15.46 7.90 3.09 1.73 0.55 0.58 0.76 1.57 3.30 7.07 16.02 20.97	1737.18 1737.18 1737.18 347.44 289.53 86.86 52.65 15.39 4.62 2.79 1.15 1.08 1.14 1.98 3.70 8.77 28.03	2050 2060 2070 2080 2090 2100 2110 2120 2130 2140 2150 2160 2170 2180 2200 2210	1.43 1.43 1.43 1.43 1.43 1.44 1.44 1.45 1.46 1.48 1.49 1.51 1.53 1.55 1.61
2720	32.37	59.91	2230	1.73
3500	60.08	124.09	2240	1.78
4500	55.33	133.63	2250	1.84









Notes

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.

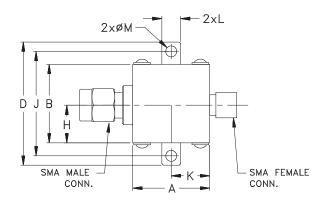
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

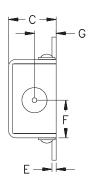
C. The parts covered by this specification document are subject to Mini-Circuit's standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/WCLStore/terms.jsp

Coaxial Connections

INPUT	SMA-MALE		
OUTPUT	SMA-FEMALE		

Outline Drawing





Outline Dimensions (inch)

A . 74 18.80	B . 75 19.05	C . 46 11.68	D 1.18 29.97	E .04 1.02	F .362 9.19	G .21 5.33
H .362	J 1.00	.37	L .18	M .11		Wt.
9.19	25.40	9.40	4.57	2.79		24.4

Note: Please refer to case style drawing for details

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