

Coaxial Bandpass Filter

BBP-150+

50Ω 140 to 160 MHz



Generic photo used for illustration purposes only
CASE STYLE: FF55

The Big Deal

- High rejection
- Good VSWR, 1.3:1 typ.@ passband
- Rugged unibody construction
- Connectorized package

Product Overview

BBP-150+ is a 50Ω bandpass filter in a connectorized package. This bandpass filter covers from 140 to 160 MHz, these units offer good matching within the passband and high rejection. This unit uses a miniature high Q capacitors and wire welded inductors for high reliability. It has repeatable performance across production lots and consistent performance across temperature.

Key Features

Feature	Advantages
High rejection	This enables the filter to attenuate spurious signals and reject harmonics for broad frequency band.
Good VSWR, 1.3:1 typ. @ passband	This provides well matched input and output ports.
Connectorized package	Connectorized package is easy to interface with other devices and well suited for test setups.

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



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Features

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Connectors	Model
BNC	BBP-150+

Applications

- Fixed applications
- Amateur satellite
- Mobile communication

Electrical Specifications at 25°C

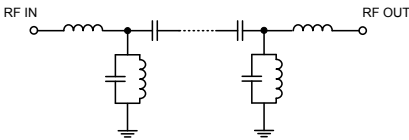
Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center frequency	-	-	150	-	MHz
	Insertion Loss	F1-F2	140 - 160	2.1	3.0	dB
	VSWR	F1-F2	140 - 160	1.3	1.8	:1
Stop Band, Lower	Insertion Loss	DC-F3	DC - 100	54	-	dB
		F3-F4	100 - 120	29	-	dB
Stop Band, Upper	Insertion Loss	F5-F6	190 - 250	30	-	dB
		F6-F7	250 - 2000	52	-	dB

Maximum Ratings

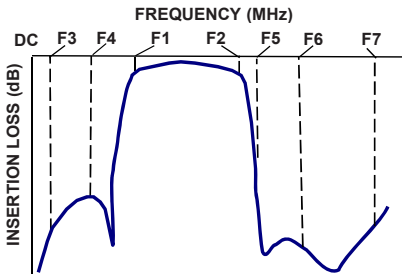
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5 W max.

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

Functional Schematic



Typical Frequency Response

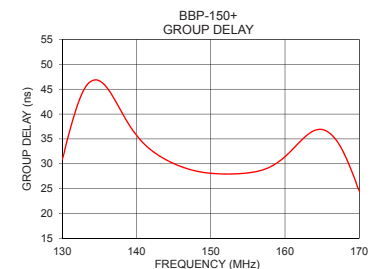
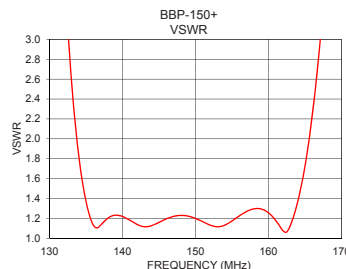
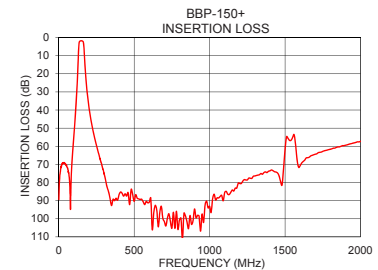
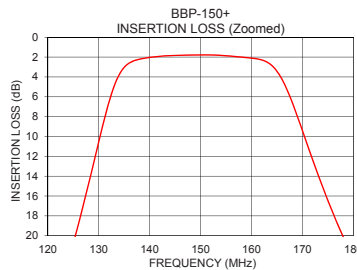


+RoHS Compliant

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

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (ns)
1	89.37	43.68	140	35.72
10	74.37	39.06	141	34.03
100	54.69	101.71	142	32.72
119	30.96	51.03	143	31.66
120	29.40	46.26	144	30.79
125	20.79	24.41	145	30.06
135	3.03	1.37	146	29.45
140	2.03	1.22	147	28.94
145	1.83	1.16	148	28.55
150	1.78	1.20	149	28.27
155	1.86	1.17	150	28.09
160	2.10	1.26	151	27.99
165	3.44	1.73	152	27.95
178	20.16	16.93	153	27.97
189	30.62	30.39	154	28.04
190	31.39	31.52	155	28.17
250	59.46	88.94	156	28.39
1000	93.10	74.06	157	28.78
1500	61.82	49.17	158	29.38
2000	57.29	46.64	160	31.43



Notes

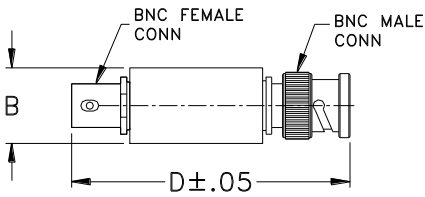
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Coaxial Connections

PORT - 1	BNC-Male
PORT - 2	BNC-Female

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	Wt.
--	0.57	--	2.59	--	grams
--	14.47	--	65.79	--	40

Note: Please refer to case style drawing for details

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