Coaxial

Bandpass Filter

BBP-35A+

50Ω 30 to 40 MHz

Generic photo used for illustration purposes only

CASE STYLE: FF55

Connectors	Model
BNC	BBP-35A+

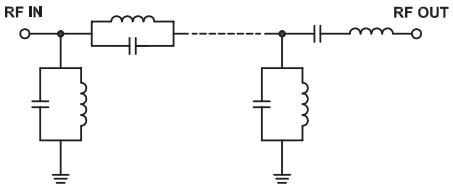
Features

- Excellent rejection
- Good VSWR, 1.2:1 typical@ passband
- Connectorized package

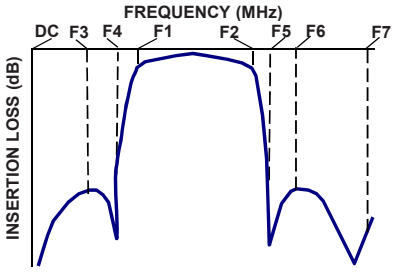
Applications

- FM Radio rejection
- Receivers / Transmitters
- Professional mobile radio / Public Access mobile radio (PMR / PAMR)

Functional Schematic



Typical Frequency Response



+RoHS Compliant

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

Electrical Specifications at 25°C

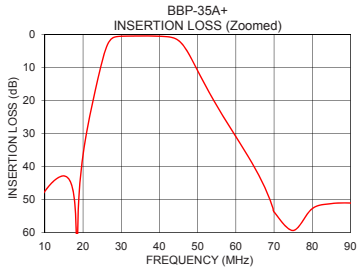
Parameter		F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	-	-	-	35	-	MHz
	Insertion Loss	F1-F2	30 - 40	-	0.6	1.0	dB
	VSWR	F1-F2	30 - 40	-	1.2	1.5	:1
Stop Band, Lower	Insertion Loss	DC-F3	DC - 19	30	40	-	dB
		F3-F4	19 - 21	20	27	-	dB
	VSWR	DC-F4	DC - 21	-	20	-	:1
Stop Band, Upper	Insertion Loss	F5-F6	60 - 65	20	30	-	dB
		F6-F7	65 - 1350	30	36	-	dB
	VSWR	F5-F7	60 - 1350	-	20	-	:1

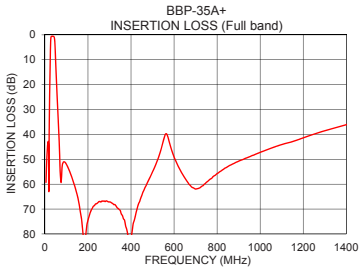
Maximum Ratings	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5 W max.

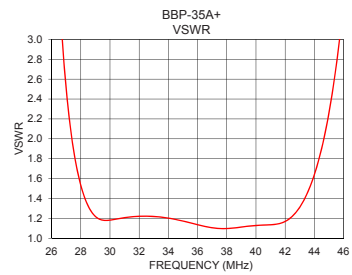
Permanent damage may occur if any of these limits are exceeded.

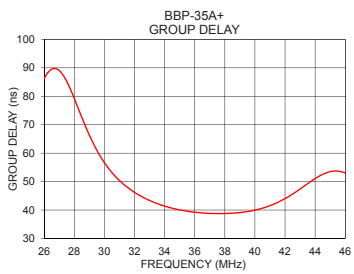
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (ns)
5	59.26	408.65	30.0	56.66
19	47.77	103.98	30.5	53.17
21	29.31	75.95	31.0	50.37
22	23.40	59.85	31.5	48.11
23	18.01	41.73	32.0	46.20
27	2.90	3.53	32.5	44.67
30	0.60	1.18	33.0	43.36
35	0.52	1.17	33.5	42.29
40	0.60	1.13	34.0	41.36
46	3.03	3.36	34.5	40.63
50	11.02	17.52	35.0	40.05
54	19.59	45.68	35.5	39.57
60	30.96	82.29	36.0	39.22
65	40.49	101.41	36.5	38.97
100	52.05	130.64	37.0	38.80
250	67.05	90.60	37.5	38.75
500	55.02	60.85	38.0	38.78
750	59.27	68.90	38.5	38.88
1000	47.19	59.15	39.0	39.09
1350	37.31	41.67	40.0	39.96









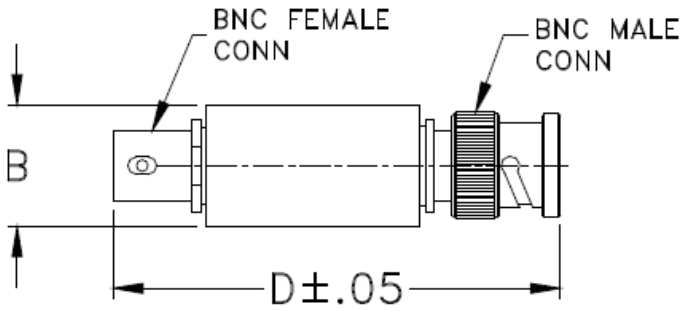
Notes

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

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