**BBP-100+** 

 $50\Omega$ 87 to 117 MHz



Generic photo used for illustration purposes only CASE STYLE: FF55

## The Big Deal

- Very good rejection
- Good VSWR 1.3:1 typ in passband
- Connectorized package

### **Product Overview**

BBP-100+ is a  $50\Omega$  bandpass filter in a connectorized package. The bandpass filter covers from 87 to 117 MHz, offering good matching within the passband. It uses 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
Very good rejection	Rejects unwanted spurious signals.
Good VSWR, 1.3:1 typical in 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.

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# **Bandpass Filter**

 $50\Omega$ 87 to 117 MHz





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Connectors Model BBP-100+ BNC

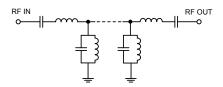
#### **Features**

- Very good rejection, 40 dB typ.
- · Good VSWR, 1.3:1 typical in passband
- · Connectorized package

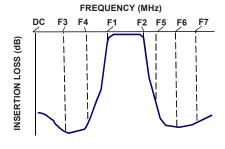
#### **Applications**

- Transmitters / Receivers
- · Harmonic rejection
- Test equipment
- · Military Radio

#### **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

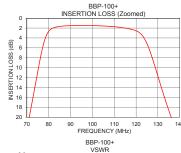
·							
Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
Pass Band	Insertion Loss	F1-F2	87 - 117	-	2.2	3.0	dB
	VSWR	F1-F2	87 - 117	-	1.3	1.7	:1
Stop Band, Lower	Insertion Loss	DC-F3	DC - 55	40	49	-	dB
		F3-F4	55 - 66	20	29	-	dB
	VSWR	DC-F4	DC - 66	-	20	-	:1
Stop Band, Upper	Insertion Loss	F5-F6	143 - 175	20	28	-	dB
		F6-F7	175 - 1500	40	50	-	dB
	VSWR	F5-F7	143 - 1500	-	20	-	:1

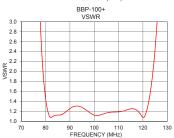
Maximum Ratings			
Operating Temperature	-40°C to 85°C		
Storage Temperature	-55°C to 100°C		
RF Power Input	0.25 W max.		

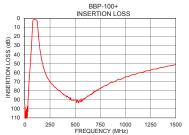
Permanent damage may occur if any of these limits are exceeded.

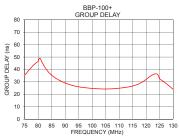
#### Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (ns)
1	108.00	76258.91	87	32.32
20	101.38	7169.24	88	31.12
30	99.20	2804.52	89	30.05
40	74.21	1019.16	90	29.09
55	49.59	230.34	91	28.26
66	30.48	63.05	92	27.55
71	20.10	26.82	93	26.94
79	3.40	1.94	94	26.44
87	1.58	1.14	95	26.04
100	1.51	1.12	96	25.71
117	2.17	1.23	97	25.42
122	3.11	1.30	98	25.19
137	21.15	15.65	99	24.98
143	27.76	22.07	100	24.79
175	49.76	47.26	111	25.18
200	59.27	61.00	112	25.47
300	76.14	81.76	113	25.80
500	89.85	67.83	115	26.68
1000	64.51	31.26	116	27.29
1500	51.03	21.92	117	28.10









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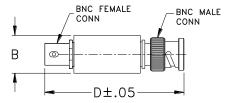
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#### **Coaxial Connections**

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

### **Outline Drawing**



#### Outline Dimensions (inch )

Α	В	С	D	Е	Wt.
	0.57		2.59		grams
	14.47		65.79		40

Note: Please refer to case style drawing for details

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