

# Coaxial Bandpass Filter

## BBP-20R5+

50Ω 20 to 21 MHz



CASE STYLE: FF55  
Connectors: BNC Model: BBP-20R5+

### Features

- Flat group delay over passband
- Good VSWR, 1.3:1 typical in passband
- High rejection (40dB form 40-380 MHz)

### Applications

- Transmitters / Receivers - IF stage
- Harmonic rejection
- Test equipments
- Military

### Electrical Specifications at 25°C

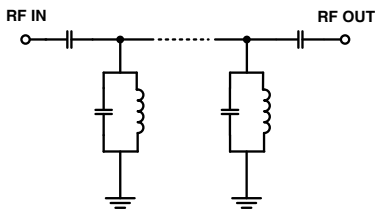
Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	-	-	20.5	-	MHz
	Insertion Loss	F1-F2	20 - 21	2.2	3.0	dB
	VSWR	F1-F2	20 - 21	1.3	1.6	:1
Stop Band, Lower	Insertion Loss	DC-F3	DC - 15.8	40	50	dB
		F3-F4	15.8 - 17	20	27	dB
	VSWR	DC-F4	DC - 17	-	20	:1
Stop Band, Upper	Insertion Loss	F5-F6	27 - 40	20	28	dB
		F6-F7	40 - 380	40	45	dB
	VSWR	F5-F7	27 - 380	-	20	:1

### Maximum Ratings

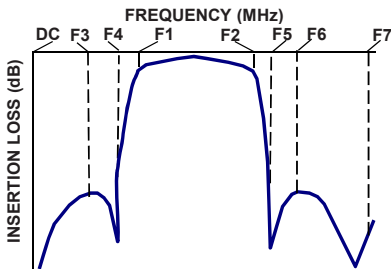
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5 W max.

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

### Functional Schematic



### Typical Frequency Response

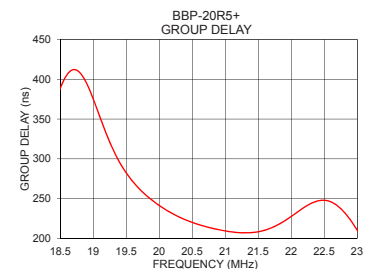
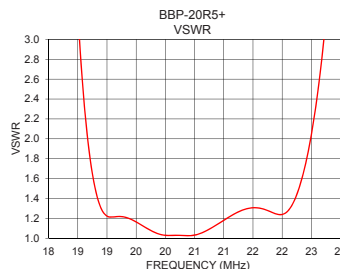
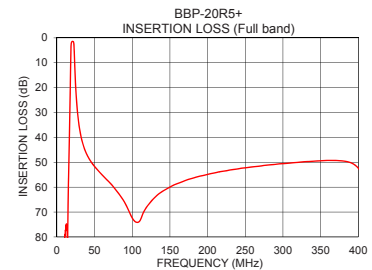
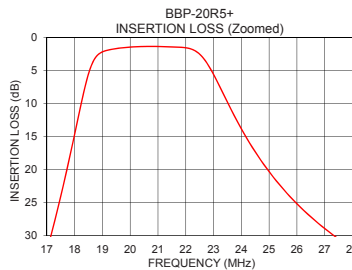


### Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (ns)
1.0	98.76	3744.00	19.5	282.22
10.0	81.53	1498.50	19.6	271.33
15.0	62.87	174.64	19.7	262.11
15.8	50.22	112.05	19.8	254.31
17.0	32.36	48.32	19.9	247.41
17.1	30.76	44.24	20.0	241.31
17.7	20.43	22.27	20.1	235.95
18.0	14.68	13.12	20.2	231.18
18.7	3.41	1.85	20.3	226.99
20.0	1.49	1.03	20.4	223.32
20.5	1.40	1.03	20.5	220.13
21.0	1.40	1.18	20.6	217.33
22.7	3.53	2.91	20.7	214.95
24.0	13.84	22.15	20.8	212.81
25.0	20.33	48.71	20.9	210.93
27.0	28.91	111.48	21.0	209.38
27.5	30.49	126.54	21.1	208.18
40.0	47.04	320.77	21.2	207.31
150.0	59.97	93.85	21.3	207.06
380.0	49.47	61.09	21.5	208.37

### +RoHS Compliant

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



### Notes

- 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.
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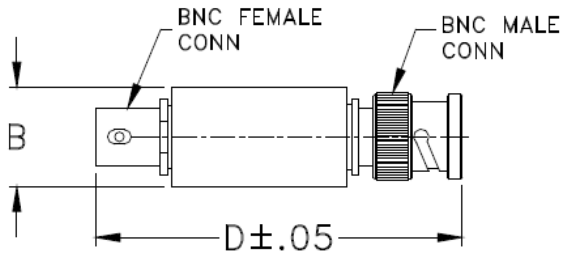
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REV. OR  
M170557  
BBP-20R5+  
EDU3153  
URJ  
190123  
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## Coaxial Connections

PORT - 1	BNC-MALE
PORT - 2	BNC-FEMALE

## Outline Drawing



## Outline Dimensions ( $\frac{\text{inch}}{\text{mm}}$ )

A	B	C	D	E	Wt.
--	<b>0.57</b>	--	<b>2.59</b>	--	grams
--	14.47	--	65.79	--	40

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