Coaxial

Bandpass Filter

50Ω 20 to 21 MHz

BBP-20R5+



Generic photo used for illustration purposes only

CASE STYLE: FF55

Connectors	Model
BNC	BBP-20R5+

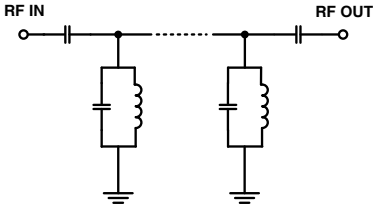
Features

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

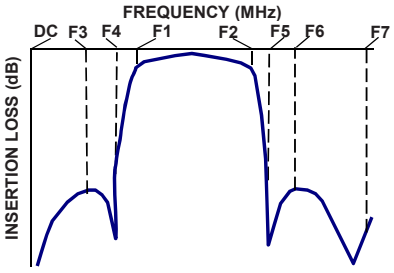
Applications

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

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

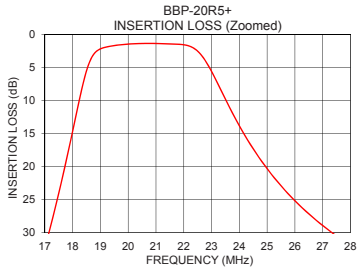
Parameter		F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	-	-	-	20.5	-	MHz
	Insertion Loss	F1-F2	20 - 21	-	2.2	3.0	dB
	VSWR	F1-F2	20 - 21	-	1.3	1.6	:1
Stop Band, Lower	Insertion Loss	DC-F3	DC - 15.8	40	50	-	dB
		F3-F4	15.8 - 17	20	27	-	dB
	VSWR	DC-F4	DC - 17	-	20	-	:1
Stop Band, Upper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

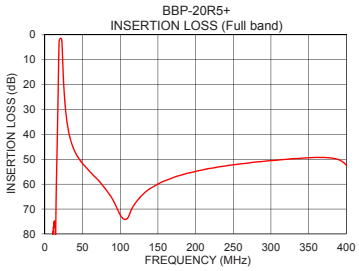
Maximum Ratings	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5 W max.

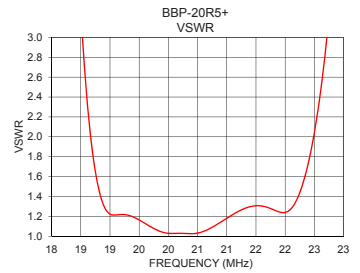
Permanent damage may occur if any of these limits are exceeded.

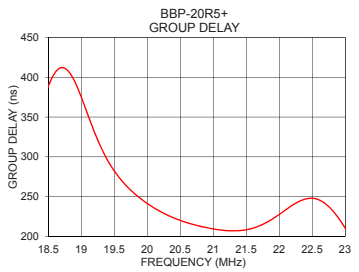
Typical Performance Data at 25°C

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









Notes

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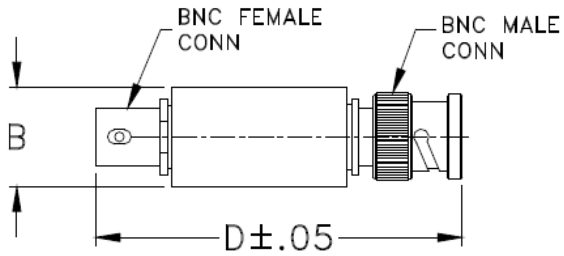
Coaxial Connections

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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