Coaxial **Bandpass Filter**

50Ω 24 to 31 MHz

BBP-27R5+



The Big Deal

- Good VSWR 1.3:1 typ in passband
- Good rejection, 30 dB typical
- Connectorized package

Product Overview

BBP-27R5+ is a 50 Ω bandpass filter in a connectorized package. The bandpass filter covers from 24 to 31 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
Good rejection, 30 dB typical	Rejects unwanted spurious signals.
Good VSWR, 1.3:1 typical over 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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Coaxial **Bandpass Filter**

50Ω 24 to 31 MHz

Features

· Good VSWR, 1.3:1 typical over passband

Functional Schematic

Typical Frequency Response

FREQUENCY (MHz)

F2 F4

F1

+RoHS Compliant

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

RF OUT -

- · Good rejection, 30 dB typical
- Connectorized package

Applications Transmitters / Receivers Harmonic rejection Test equipment Military communication

RF IN

DC

NSERTION LOSS (dB)

F3





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> Connectors Model BNC BBP-27R5+

Electrical Specifications at 25°C

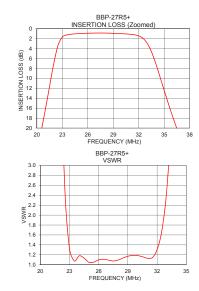
Para	neter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
Pass Band	Insertion Loss VSWR	F1-F2 F1-F2	24 - 31 24 - 31	-	1.3 1.3	2.5 1.7	dB :1
Stop Band, Lower	Insertion Loss	DC-F3	DC - 19	20	30	-	dB
Stop Band, Upper	Insertion Loss	F4-F5	39 - 900	20	30	-	dB

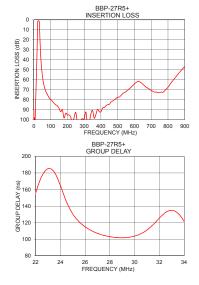
Maximum Ratings				
Operating Temperature	-40°C to 85°C			
Storage Temperature	-55°C to 100°C			
RF Power Input	0.25 W max.			

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

Typical Performance Data at 25°C

Typical Performance Data at 25°C					
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (ns)	
1.0	104.19	37593.12	24.0	164.82	
10.0	87.04	2190.78	24.5	144.89	
15.0	56.93	504.06	25.0	130.56	
19.0	32.30	106.83	25.5	121.41	
20.5	20.66	41.05	26.0	115.12	
22.5	3.28	2.62	26.5	110.49	
24.0	1.11	1.18	27.0	107.12	
26.0	0.90	1.10	27.5	104.72	
27.5	0.85	1.08	28.0	103.11	
29.0	0.91	1.17	28.5	102.15	
31.0	1.10	1.13	29.0	101.84	
33.0	2.95	2.51	29.5	102.34	
36.5	20.20	33.03	30.0	103.85	
39.0	30.39	61.18	30.5	106.65	
100.0	79.99	236.30	31.0	111.20	
200.0	95.36	203.72	31.5	117.71	
500.0	77.51	78.33	32.0	125.53	
600.0	64.14	54.02	32.5	132.35	
700.0	70.84	37.23	33.0	134.95	
900.0	46.79	4.96	33.5	131.43	





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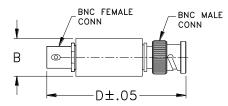
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Coaxial Connections

	Male
PORT - 2 BNC-Fe	male

Outline Drawing



Outline Dimensions (inch)

А	В	С	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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