Coaxial **Bandpass Filter**

50Ω 154.32 to 214.32 MHz

The Big Deal

- Broad bandwidth
- High Rejection
- Good VSWR
- Connectorized package

ZABP-184-S+



Generic photo used for illustration purposes only CASE STYLE: UU1842

Product Overview

ZABP-184-S+ is a 50 Ω bandpass filter with a rugged connectorized package covering the passband of 154.32 to 214.32 MHz. The bandpass filter offers good matching within the passband and provides high rejection. This filter has miniature high Q capacitors and wire welded inductors for high reliability. It has repeatable performance across lots and consistent performance across temperature.

Key Features

Feature	Advantages
High rejection	ZABP-184-S+ has sharper transition and rejects spurious signals in the stopband.
Good VSWR	This filter maintains typical VSWR over passband frequency range making this filter easier to inte- grate into receiver and transmitter RF chains with less concerns for in band frequency ripple.
Connectorized package	Connectorized package is easy to interface with other devices and well suited for test setups.

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50Ω 154.32 to 214.32 MHz

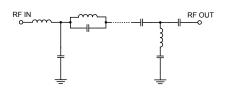
Features

- Broad bandwidth
- High rejection
- Good VSWR
- · Connectorized package

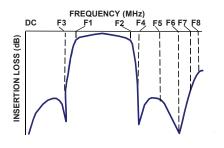
Applications

- Digital television
- · Biomedical telemetry device
- Wireless microphone
- Test equipment

Functional Schematic



Typical Frequency Response





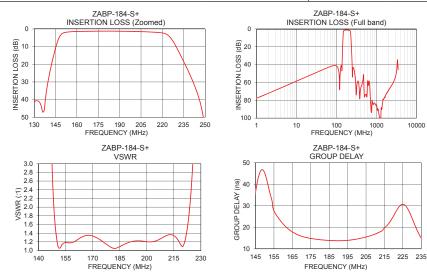
Connectors SMA-M\F Electrical Specifications at 25°C

Para	neter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Center Frequency	-	-	-	184	-	MHz
Pass Band	Insertion Loss	F1-F2	154.32 - 214.32	-	1.9	3.0	dB
	VSWR	F1-F2	154.32 - 214.32	-	1.4	1.9	:1
Stop Band, Lower	Insertion Loss	DC-F3	DC - 139	20	30	-	dB
	VSWR	DC-F3	DC - 139	-	20	-	:1
Stop Band, Upper	Insertion Loss	F4-F5	242 -750	20	27	-	dB
		F5-F6	750 - 1400	60	79	-	dB
		F6-F7	1400 - 2500	50	60	-	dB
		F7-F8	2500 - 3500	-	20	-	dB
	VSWR	F4-F8	242 - 3500	-	20	-	:1

Maximum Ratings Operating Temperature -40°C to 85°C Storage Temperature -55°C to 100°C **RF** Power Input 2 W max.

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

Typical Performance Data at 25°C Insertion Loss VSWR Frequency (MHz) Group Delay Frequency (MHz) (dB) (:1) (ns) 77.69 4919.23 154.32 29.65 1.00 27.68 21.55 50.00 44.89 654.25 155.00 139.00 33 31 160.00 31.85 140.00 28.58 27.95 162.00 19.85 142.00 20.74 19.78 164.00 18.49 149 00 3 05 1 69 166.00 17 39 151.00 2.10 1.07 168.00 16.54 154.32 1.66 1.18 170.00 15.89 184.00 1.21 1.07 175.00 14.85 214.32 1.84 1.36 180.00 14.29 2.02 3.04 1.20 1.68 218.00 182.00 14.12 223.00 184.00 13.99 26.47 185.00 13.93 236.00 20.19 242.00 750.00 30.89 93.71 45.12 144.40 190.00 192.00 13.80 13.83 1400.00 84.23 130.59 195.00 13.99 2500.00 2800.00 61 97 42.16 38.76 200.00 14 57 57.36 205.00 15.54 210.00 3000.00 53.32 36.50 16.92 3500.00 45.78 26.26 214.32 19.09



Notes
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10000

ZABP-184-S+



Model

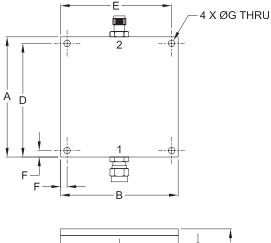
ZABP-184-S+

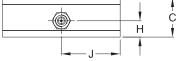


Coaxial Connections

PORT - 1	SMA-MALE
PORT - 2	SMA-FEMALE

Outline Drawing





Outline Dimensions (inch)

Α	В	С	D	Е
2.300	2.250	.750	2.175	2.125
58.42	57.15	19.05	55.25	53.98
F	G	н	J	wt.
F .125	G .125		J 1.125	

Note: Please refer to case style drawing for details

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