Coaxial **Bandpass Filter**

50Ω 130 to 150 MHz

The Big Deal

- High rejection, 50 dB typ.
- Good VSWR, 1.3:1 typ.
- Fast roll-off
- Narrow bandwidth
- Connectorized package

Product Overview

SBP-140+ is a 50Ω bandpass filter in a connectorized package. This bandpass filter covers from 130 to 150 MHz, these units offer good matching within the passband and high rejection. This unit uses a 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		
High rejection, 50 dB typ.	This enables the filter to attenuate spurious signals and reject harmonics for broad frequency band.		
Good VSWR, 1.3:1 typ.	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.		

SBP-140+



Generic photo used for illustration purposes only CASE STYLE: FF99

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Coaxial **Bandpass Filter**

50Ω 130 to 150 MHz

SBP-140+



Generic photo used for illustration purposes only CASE STYLE: FF99 Connectors Model SBP-140+

Тур.

140

2.6

1.3

47

30

20

30

50

40

20

Max.

3.5

1.7

Unit

MHz

dB

:1

dB

dB

:1

dB

dB

dB

:1

SMA

Min.

40

Features

- High rejection, 50 dB typ.
- · Fast roll-off
- Good VSWR, 1.3:1 typ.
- · Rugged shielded case
- Connectorized package

Applications

- Transmitters / Receivers
- · Wireless communication systems
- Radio links
- Test setup

Functional Schematic



Typical Frequency Response



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

Maximum Ratings				
Stop Band, Upper	VSWR	F7-F8	185 - 2000	-
		F7-F8	1000 - 2000	-
	Insertion Loss	F6-F7	210 - 1000	40
		F5-F6	185 - 210	20
Stop Band, Lower	VSWR	DC-F4	DC - 110	-
	Insention Loss	F3-F4	100 - 110	20
	Incontion Loop	DC-F3	DC - 100	40

Maximum Ratings			
Operating Temperature	-40°C to 85°C		
Storage Temperature	-55°C to 100°C		
RF Power Input	0.5 W max.		
rmanent damage may occur if any of these limits are exceeded.			

Parameter

Pass Band

Center frequency

Insertion Loss

VSWR

Typical Performance Data at 25°C

Electrical Specifications at 25°C

Frequency (MHz)

130 - 150

130 - 150

DC - 100

F#

F1-F2

F1-F2

DC-F3

rypical i criciniance Bata at 20 C				
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (ns)
1	98.92	42.32	130	44.74
10	76.56	37.38	131	42.50
80	70.24	97.83	132	40.24
100	47.91	94.99	133	38.23
110	34.62	58.74	134	36.57
112	31.53	49.71	135	35.26
118	20.93	23.62	136	34.22
128	3.09	1.55	137	33.43
130	2.36	1.13	138	32.82
140	1.83	1.14	139	32.39
150	2.38	1.10	140	32.10
153	3.97	2.06	141	31.95
165	20.98	16.48	142	31.91
174	30.44	27.81	143	32.01
185	38.86	40.75	144	32.28
210	52.05	68.25	145	32.75
500	91.65	262.38	146	33.48
1000	89.31	214.01	147	34.49
1500	61.23	125.48	148	35.77
2000	55.82	84.55	150	38.48





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Coaxial Connections

PORT - 1	SMA-Male
PORT - 2	SMA-Female

Outline Drawing



Outline Dimensions (inch)

В	D	Е	Wt.
.70	1.98	.312	grams
17.78	50.29	7.92	42.0

Note: Please refer to case style drawing for details

Notes
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