SBP-140+

 50Ω 130 to 150 MHz



Generic photo used for illustration purposes only CASE STYLE: FF99

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.		

A. 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.

B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

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Bandpass Filter

 50Ω 130 to 150 MHz

SBP-140+



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Connectors Model SMA SBP-140+

Flectrical Specifications at 25°C

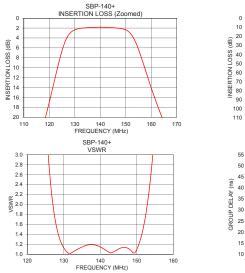
Electrical opecinications at 25 0							
Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Center frequency	-	-	-	140	-	MHz
Pass Band	Insertion Loss	F1-F2	130 - 150	-	2.6	3.5	dB
	VSWR	F1-F2	130 - 150	-	1.3	1.7	:1
	Insertion Loss	DC-F3	DC - 100	40	47	-	dB
Stop Band, Lower		F3-F4	100 - 110	20	30	-	dB
	VSWR	DC-F4	DC - 110	-	20	-	:1
		F5-F6	185 - 210	20	30	-	dB
Ston Bond Unner	p Band, Upper Insertion Loss	F6-F7	210 - 1000	40	50	-	dB
Stop Bariu, Opper		F7-F8	1000 - 2000	-	40	-	dB
	VSWR	F7-F8	185 - 2000	-	20	-	:1

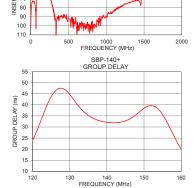
Maximum Ratings			
Operating Temperature	-40°C to 85°C		
Storage Temperature	-55°C to 100°C		
RF Power Input	0.5 W max.		

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	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





SBP-140+ INSERTION LOSS

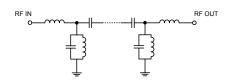
Features

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

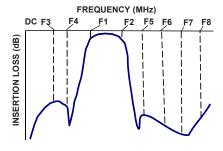
Applications

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

Functional Schematic



Typical Frequency Response



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

Notes

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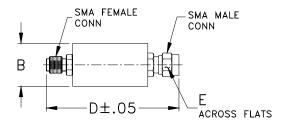
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SBP-140+ **Bandpass Filter**

Coaxial Connections

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

Outline Drawing



Outline Dimensions (inch)

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

Note: Please refer to case style drawing for details



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