SBP-150+

 50Ω 140 to 160 MHz



Generic photo used for illustration purposes only CASE STYLE: FF99

The Big Deal

- High rejection
- · Good VSWR, 1.3:1 typ.@ passband
- Rugged unibody construction
- Connectorized package

Product Overview

SBP-150+ is a 50Ω bandpass filter in a connectorized package. This bandpass filter covers from 140 to 160 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	This enables the filter to attenuate spurious signals and reject harmonics for broad frequency band.	
Good VSWR, 1.3:1 typ.@ 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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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 140 to 160 MHz

SBP-150+



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Connectors	Model
SMA	SBP-150+

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Electrical Specifications at 25°C

Electrical Opecinications at 25 C							
Parai	meter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Center frequency	-	-	-	150	-	MHz
Pass Band	Insertion Loss	F1-F2	140 - 160	-	2.2	3.0	dB
	VSWR	F1-F2	140 - 160	-	1.3	1.8	:1
Stop Band, Lower In	Insertion Loss	DC-F3	DC - 100	40	53	-	dB
		F3-F4	100 - 120	20	27	-	dB
Stop Band, Upper	Insertion Loss	F5-F6	190 - 250	20	32	-	dB
		F6-F7	250 - 2000	40	55	-	dB

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.

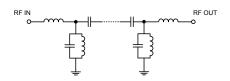
Features

- · High rejection
- · Good VSWR, 1.3:1 typ.@ passband
- Rugged unibody construction
- · Connectorized package

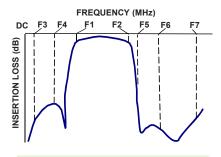
Applications

- Fixed applications
- Amateur satellite
- Mobile communication

Functional Schematic



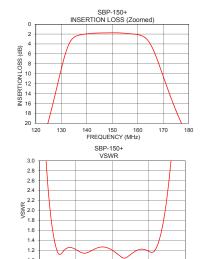
Typical Frequency Response

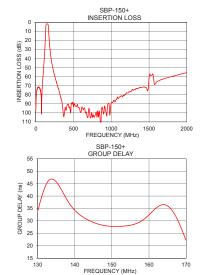


+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (ns)
1	96.06	43.68	140	34.25
10	77.22	38.82	141	32.86
100	53.87	100.21	142	31.75
118	31.39	52.98	143	30.84
120	28.26	43.79	144	30.06
124	21.31	26.10	145	29.41
134	3.14	1.45	146	28.87
140	1.96	1.21	147	28.43
145	1.79	1.22	148	28.12
150	1.75	1.20	149	27.91
155	1.85	1.11	150	27.80
160	2.12	1.18	151	27.77
164	3.31	1.77	152	27.79
178	20.98	18.53	153	27.88
190	31.93	33.19	154	28.03
250	59.36	91.76	155	28.27
500	93.20	235.95	156	28.64
1000	88.44	209.34	157	29.19
1500	62.14	126.54	158	30.00
2000	55.51	86.66	160	32.42





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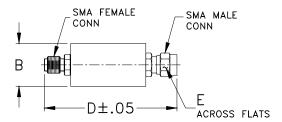
FREQUENCY (MHz)

SBP-150+ Bandpass Filter

Coaxial Connections

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

Outline Drawing



Outline Dimensions (inch)

В D Ε 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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