BPF-A120+

 50Ω 100 to 140 MHz

The Big Deal

- Broader bandwidth
- High Rejection
- Miniature shielded package



Generic photo used for illustration purposes only

CASE STYLE: HQ1157

Product Overview

BPF-A120+ is a 50Ω bandpass filter in a shielded package fabricated using SMT technology. This bandpass filter covers from 100 to 140 MHz. This filter build with high Q capacitors and wire welded inductors for high reliability. This filter offers sharp rejection and low insertion loss for use in Test and measurement system applications.

Key Features

Feature	Advantages			
Low insertion loss	Can be used in Transmitters/Receivers application			
Good rejection	This enables the filter attenuate spurious signals and reject harmonics for broad frequency band			
Shielded package	The small surface mount package enables the BPF-A120+ to used in compact design			

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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 100 to 140 MHz

BPF-A120+



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Max.

Unit

:1

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20

· Miniature shielded package

Stop Band, Upper

Applications

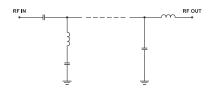
Features

· Broader bandwidth

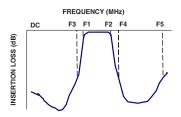
High rejection

- · Test and measurement
- · Harmonic rejection
- · Transmitters / Receivers

Functional Schematic



Typical Frequency Response



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

Frequency (MHz) Тур. Center Frequency 120 MHz Pass Band Insertion Loss F1-F2 100-140 2.5 dB 1.7 F1-F2 100-140 1.3 1.92 **VSWR** :1 DC-82 20 dB Insertion Loss DC-F3 28.1 Stop Band, Lower **VSWR** DC-F3 :1 Insertion Loss F4-F5 174-3000 31.7 dB

F#

F4-F5

Electrical Specifications at 25°C

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

VSWR

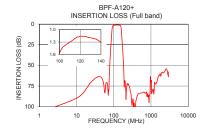
Parameter

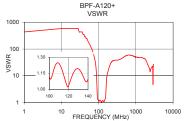
Permanent damage may occur if any of these limits are exceeded.

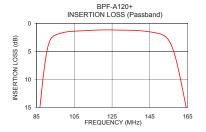
Typical Performance Data at 25°C

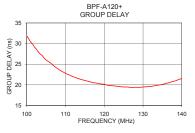
174-3000

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1.0	106.85	434.30	100.0	31.95
50.0	67.11	217.15	102.0	29.18
82.0	31.80	29.96	104.0	27.09
82.5	29.94	28.03	106.0	25.42
85.5	19.39	17.22	108.0	23.93
92.0	3.14	1.75	110.0	22.81
100.0	1.57	1.12	112.0	21.98
120.0	1.16	1.04	114.0	21.32
140.0	1.32	1.09	116.0	20.83
155.0	3.02	2.02	118.0	20.43
167.0	19.91	10.13	120.0	20.15
173.0	30.40	12.71	122.0	19.81
174.0	32.17	13.09	124.0	19.58
250.0	73.64	37.77	126.0	19.49
650.0	82.27	59.91	128.0	19.43
1000.0	70.10	51.10	130.0	19.49
1600.0	62.49	44.55	134.0	19.94
2000.0	58.26	31.03	136.0	20.42
2600.0	54.27	19.54	138.0	20.91
3000.0	63.84	27.16	140.0	21.47









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