Surface Mount **Bandpass Filter**

BPF-A355+

 50Ω 310 to 400 MHz

The Big Deal

- Broader bandwidth
- High Rejection
- Good VSWR, 1.2:1 typical
- Miniature shielded package



Generic photo used for illustration purposes only CASE STYLE: HQ1157

Product Overview

BPF-A355+ is a 50Ω bandpass filter in a shielded package fabricated using SMT technology. This bandpass filter covers from 310 to 400 MHz. This filter build with high Q capacitors and wire welded inductors for high reliability. This filter has fast roll-off and general application in the UHF range

Key Features

Feature Advantages				
Low insertion loss	Can be used in industrial and medical 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-A355+ to used in compact design			

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C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Puchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

Bandpass Filter

 50Ω 310 to 400 MHz

BPF-A355+



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CASE STYLE: HQ1157

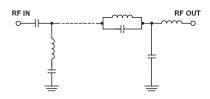
Features

- · Broader bandwidth
- · High rejection
- · Miniature shielded package

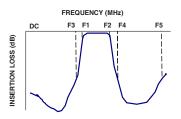
Applications

- UHF antenna
- Radio link
- Transmitters / Receivers

Functional Schematic



Typical Frequency Response



+RoHS Compliant

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

Electrical Specifications at 25°C

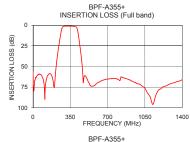
Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Center Frequency	_	_	_	355	_	MHz
Pass Band	Insertion Loss	F1-F2	310-400	_	1.90	3.50	dB
	VSWR	F1-F2	310-400	_	1.22	1.92	:1
Cton Bond Lower	Insertion Loss	DC-F3	DC-237	20	27	_	dB
Stop Band, Lower	VSWR	DC-F3	DC-237	_	20	_	:1
Stop Band, Upper	Insertion Loss	F4-F5	450-1400	20	30	_	dB
	VSWR	F4-F5	450-1400	_	20	_	:1

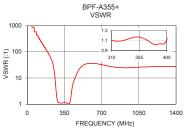
Maximum Ratings				
Operating Temperature	-40°C to 85°C			
Storage Temperature	-55°C to 100°C			
RF Power Input	0.8W			

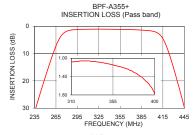
Permanent damage may occur if any of these limits are exceeded.

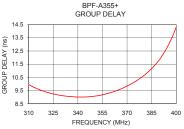
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	56.16	868.59	310	9.96
201	74.51	86.86	315	9.65
211	58.58	72.39	320	9.42
237	29.66	39.49	325	9.25
249	19.42	25.19	330	9.14
265	7.19	6.71	335	9.06
273	3.28	2.78	340	9.02
300	1.14	1.13	345	9.03
310	1.08	1.10	350	9.08
355	1.15	1.17	355	9.19
400	1.77	1.12	356	9.21
411	3.18	1.89	360	9.35
420	7.37	3.62	365	9.57
427	12.75	5.25	370	9.85
435	19.95	6.81	375	10.19
445	29.71	8.90	380	10.62
450	34.93	10.07	385	11.16
570	73.46	35.46	390	11.88
750	64.45	29.46	395	12.89
1400	65.76	27.59	400	14.31









Notes

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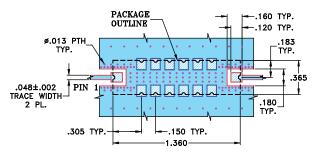
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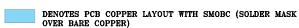
Pad Connections

INPUT	1
OUTPUT	8
GROUND	2.3.4.5.6.7.9.10.11.12.13.14

Demo Board MCL P/N: TB-363+ Suggested PCB Layout (PL-227)

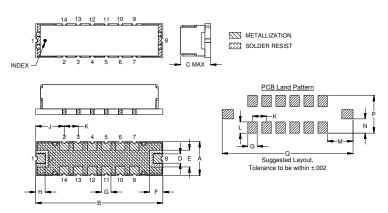


- 1. TRACE WIDTH IS SHOWN FOR FR4 WITH DIELECTRIC THICKNESS .025"±.002". COPPER: 1/2 OZ. EACH SIDE.
 FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
- 2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.



DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK

Outline Drawing



Outline Dimensions (inch)

.365	1.360	C .35 8.89	.100	.180	.140	.100	.100
.305	.150	L .120 3.05	.275	.152	.405	1.400	grams

Note: Please refer to case style drawing for details

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