Bandpass Filter

BPF-A600+

50Ω 500 to 700 MHz

The Big Deal

- Sharp roll-off
- High rejection (50 dB typical)
- Miniature shielded package



CASE STYLE: HQ1157

Product Overview

The BPF-A600+ is a band pass filter in a shielded package (size of 0.365" x 1.360" x 0.365" x 0.365 x 0.365

Key Features

Feature	Advantages
More than 40dB rejection up to 1800 MHz	This enables the filter to attenuate spurious signals and reject harmonics for broad band of frequency.
Sharp shape factor of 1.2	Sharp shape factor helps in adjacent channel rejection and hence increased selectivity.
Shielded case	Reduced interference with and from the surrounding components.

For detailed performance speca & shopping online see web site

Bandpass Filter

50Q 500 to 700 MHz

BPF-A600+



CASE STYLE: HQ1157 PRICE: \$29.95 ea. QTY (1-9)

20

20

Тур.

600

1.6

1.6

32

14

36

13

Max.

2.5

2.2

Unit

MHz

dB

:1

dB

:1

dB

:1

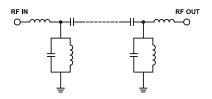
Features

- · Sharp roll-off
- · High rejection, 50 dB typical
- Shielded case
- · Aqueous washable

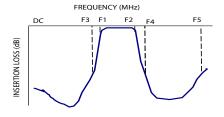
Applications

- · Broad band wireless 4G system (UHF Wimax)
- · Harmonic rejection
- Transmitters / receivers

Functional Schematic



Typical Frequency Response



+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Insertion Loss F4-F5 Stop Band, Upper **VSWR** F4-F5 **Maximum Ratings**

VSWR

VSWR

Center Frequency

Insertion Loss

Insertion Loss

Parameter

Pass Band

Stop Band, Lower

Operating Temperature

Storage Temperature

RF Power Input Permanent damage may occur if any of these limits are exceeded

Typical Performance Data at 25°C

Electrical Specifications at 25°C

F1-F2

F1-F2

DC-F3

DC-F3

-40°C to 85°C

-55°C to 100°C

1W max

Frequency (MHz)

500-700

500-700

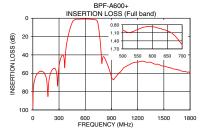
DC-380

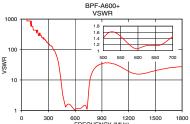
DC-380

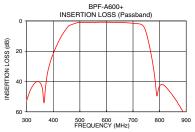
795-1800

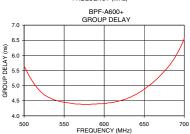
795-1800

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
0.5	97.89	5790.59	500.0	5.65
150.0	63.66	434.30	510.0	5.16
300.0	52.69	157.93	520.0	4.82
380.0	32.96	75.53	530.0	4.62
402.5	20.44	49.64	540.0	4.51
430.0	10.28	16.89	550.0	4.45
450.0	4.99	5.70	560.0	4.41
460.0	3.01	3.27	570.0	4.39
500.0	1.01	1.40	580.0	4.38
600.0	0.87	1.07	600.0	4.41
700.0	1.55	1.45	610.0	4.44
740.0	3.63	1.61	620.0	4.50
750.0	7.97	3.76	630.0	4.59
760.0	15.14	7.53	640.0	4.71
780.0	34.74	14.50	650.0	4.88
795.0	45.55	18.70	660.0	5.08
890.0	60.57	33.42	670.0	5.33
1000.0	58.98	35.46	680.0	5.62
1500.0	52.38	20.22	690.0	6.00
1800.0	59.23	27.59	700.0	6.55









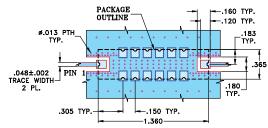
Mini-Circuits
ISO 9001 ISO 14001 AS 9100 CERTIFIED P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine

Provides ACTUAL Data Instantly at minicipcuits.com

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)



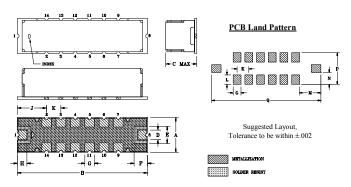
NOTE:

- 1. TRACE WIDTH IS SHOWN FOR FRA 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 PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)

DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK

Outline Drawing



Outline Dimensions (inch)

Н	G	F	Е	D	С	В	Α
.100	.100	.140	.180	.100	.35	1.360	.365
2.54	2.54	3.56	4.57	2.54	8.89	34.54	9.27
wt	0	Р	N	М	1	К	.1
		.405					.305
•						3.81	7 75