Bandpass Filter

BPF-B63+

 50Ω 61 to 65 MHz

The Big Deal

- Narrow bandwidth (3.2%)
- High rejection (55 dB typical)
- Good VSWR (1.3:1 typical)
- Miniature shielded package



CASE STYLE: HZ1198

Product Overview

The BPF-B63+ is a narrow-band bandpass filter fabricated using SMT technology, It is enclosed in HZ1198 package. Covering a passband of 63 MHz \pm 2 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. In addition it has repeatable performance across production lots and consistent performance across temperature.

Key Features

Feature	Advantages					
Flat group delay over pass band (18ns typical)	Flat group delay ensures that the signal distortion is very less.					
Good VSWR, 1.3:1 typical over passband	This provides well matched input and output ports.					
Sharp shape factor	Sharp shape factor helps in adjacent channel rejection and hence increased selectivity.					
More than 50 dB rejection up to 2300MHz	This enables the filter to attenuate spurious signals and reject harmonics for broad band of frequency.					

For detailed performance spe & shopping online see web sit

Bandpass Filter

50Q 61 to 65 MHz

BPF-B63+



CASE STYLE: HZ1198 PRICE: \$29.95 ea. QTY (1-9)

20

20

Тур.

3.6

1.3

31

36

31

17

Max.

5

1.7

Unit

MHz

dB

:1

dB

:1

dB

:1

Features

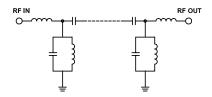
- Excellent VSWR, 1.3:1 typical in passband
- · Flat group delay over passband
- High rejection, 55 dB typical
- · Sharp insertion loss roll-off
- Shielded case
- · Aqueous washable

Applications

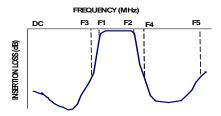
- · Harmonic rejection
- Radio communications
- · Transmitters / receivers

- ILS / Localiser

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.

Maximum Ratings						
Operating Temperature	-40°C to 85°C					
Storage Temperature	-55°C to 100°C					

Parameter

Pass Band

Stop Band, Lower

Stop Band, Upper

Center Frequency

Insertion Loss

Insertion Loss

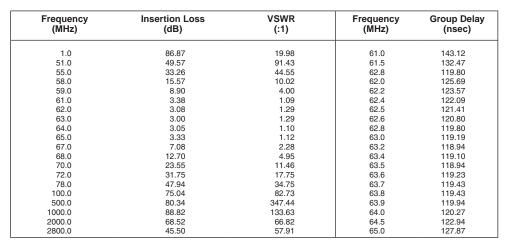
Insertion Loss

VSWR

VSWR

VSWR

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



Electrical Specifications at 25°C

F1-F2

F1-F2

DC-F3

DC-F3

F4-F5

F4-F5

0.11W max

Frequency (MHz)

61-65

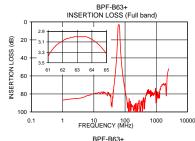
61-65

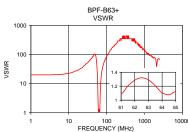
DC-55

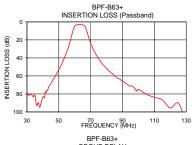
DC-55

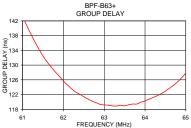
72-2800

72-2800









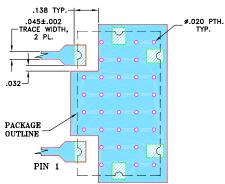
Mini-Circuits
ISO 9001 ISO 14001 AS 9100 CERTIFIED P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicipcuits.com IF/RF MICROWAVE COMPONENTS

BPF-B63+ Bandpass Filter

Pad Connections

INPUT	1
OUTPUT	2
GROUND	3,4,5,6

Demo Board MCL P/N: TB-400 Suggested PCB Layout (PL-247)



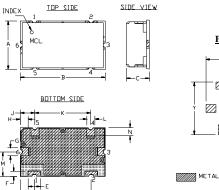
NOTES:

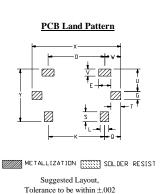
- 1. TRACE WIDTH IS SHOWN FOR FR4 WITH DIELECTRIC THICKNESS .025"±.002". COPPER: 1/2 OZ. EACH SIDE.
 FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
- 2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)

DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK

Outline Drawing





Outline Dimensions (inch)

M	L	K	J	Н	G	F	E	D	С	В	Α
.236	.078	.543	.142	.076	.078	.047	.118	.551	.220	.826	.472
5.99	1.98	13.79	3.61	1.93	1.98	1.19	3.00	14.00	5.59	20.98	11.99
wt		Υ	X	W	V	U	Т	S	Q	Р	N
grams		.512	.866	.157	.067	.217	.096	.098	.162	.138	.079
			00 00		4 70						

For detailed performance spect & shopping online see web site

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