Bandpass Filter

50Ω 800 to 1000 MHz

SYBP-92+



CASE STYLE: TT1423 PRICE: \$9.95 ea. QTY (10)

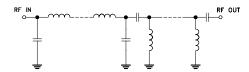
Features

- High power handling, 7W
- Small size
- Temperature stable
- Excellent rejection

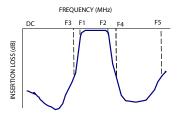
Applications

- Military radio
- Cellular
- GSM
- ISM

Functional Schematic







+ 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.

Electrical Specifications at 25°C

Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Center Frequency	_	_	_	900	_	MHz
Pass Band	Insertion Loss	F1-F2	800 - 1000	_	1.9	2.8	dB
	VSWR	F1-F2	800 - 1000	_	1.6	2.1	:1
Stop Band, Lower	Insertion Loss	DC-F3	DC - 530	20	23	_	dB
Stop Ballu, Lower	VSWR	DC-F3	DC - 530	_	12	_	:1
Stop Band, Upper	Insertion Loss	F4-F5	1550 - 3000	20	27	_	dB
Stop Band, Opper	VSWR	F4-F5	1550 - 3000	_	10	_	:1

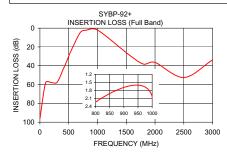
Maximum Ratings			
Operating Temperature	-40°C to 85°C		
Storage Temperature	-55°C to 100°C		
RF Power Input	7W* max. at 25°C		

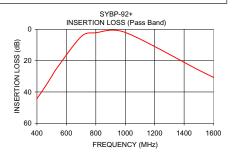
^{*}Passband rating, derate linearly to 3W at 85°C ambient

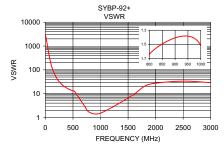
Permanent damage may occur if any of these limits are exceeded.

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)			
1.00	95.93	3014.56			
100.00	57.95	179.36			
200.00	57.87	46.52			
300.00	57.43	24.06			
400.00	44.24	16.44			
450.00	37.39	14.52			
500.00	30.07	13.16			
530.00	25.54	12.43			
700.00	4.73	3.24			
800.00	2.24	1.64			
1000.00	2.02	1.52			
1550.00	28.43	7.73			
1800.00	38.24	20.47			
2000.00	36.48	27.60			
2500.00	52.46	33.50			
3000.00	33.80	29.13			







Mini-Circuits
ISO 9001 ISO 14001 AS 9100 CERTIFIED

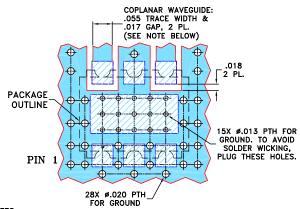
For detailed performance specs & shopping online see web site

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

Pin Connections

RF IN	4
RF OUT	6
GROUND	1,2,3,5

Demo Board MCL P/N: TB-517+ Suggested PCB Layout (PL-308)



NOTES:

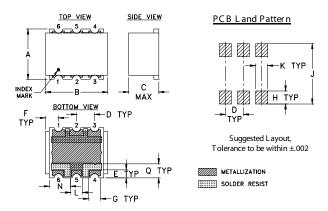
NOIES:

1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350B
WITH THICKNESS .030" ± .002"; COPPER: 1/2 OZ. EACH SIDE.
FOR OTHER MATERIALS TRACE WIDTH AND GAP 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 SOLDER MASK

Outline Drawing



Outline Dimensions (inch)

.25	.31	.15	D . 090 2.29	.040	.065	.060	.065
.300	.060	.060	N . 105 2.67	.070		9	wt rams 0.50



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