Surface Mount

Bandpass Filter

50Ω 800 to 1000 MHz

SYBP-92+

CASE STYLE: TT1423

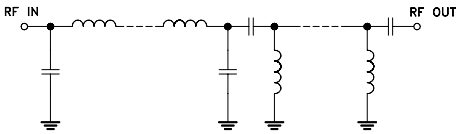
Features

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

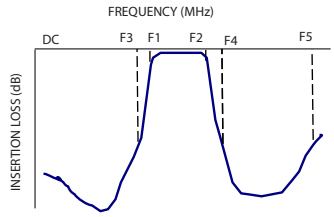
Applications

- Military radio
- Cellular
- GSM
- ISM

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.	Typ.	Max.	Unit
Pass Band	Center Frequency	—	—	—	900	—	MHz
	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
	VSWR	DC-F3	DC - 530	—	12	—	:1
Stop Band, Upper	Insertion Loss	F4-F5	1550 - 3000	20	27	—	dB
	VSWR	F4-F5	1550 - 3000	—	10	—	:1

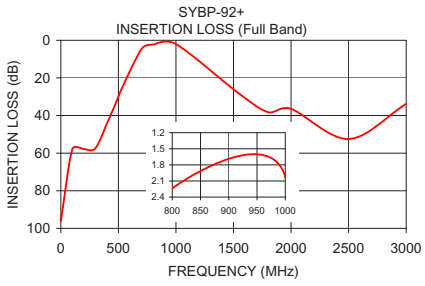
Maximum Ratings	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	7W* max. at 25°C

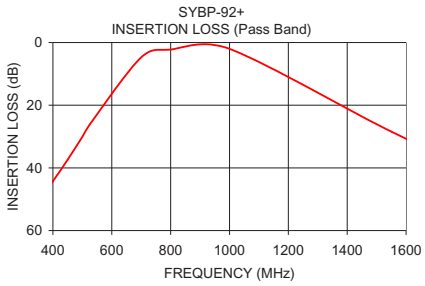
*Passband rating, derate linearly to 3W at 85°C ambient

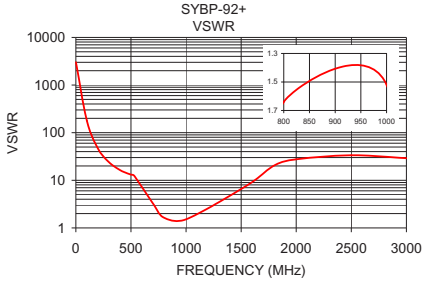
Permanent damage may occur if any of these limits are exceeded.

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







Notes

A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.

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.

C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers 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

REV. A
M151107
SYBP-92+
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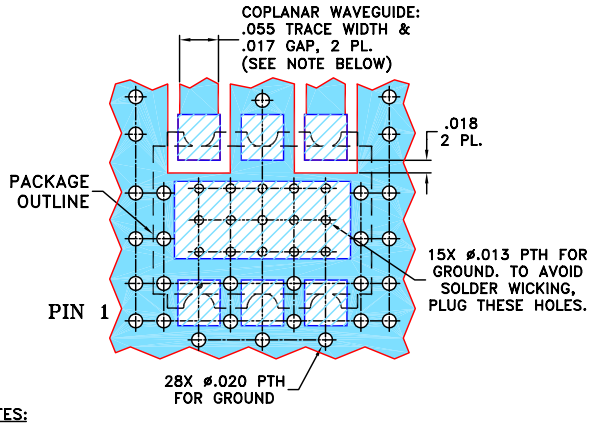
Pin Connections

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

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

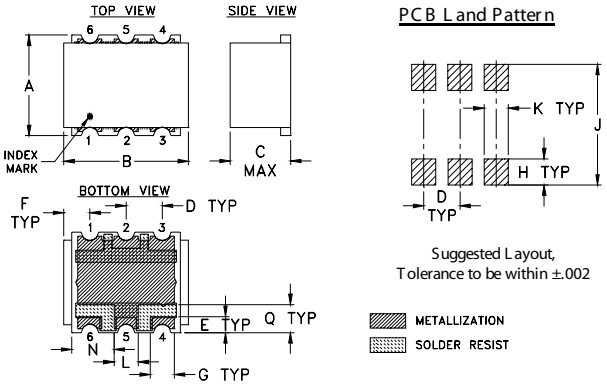


NOTES:
1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350B WITH THICKNESS .030" ± .002"; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH AND GAP MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

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

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	F	G	H
.25	.31	.15	.090	.040	.065	.060	.065
6.35	7.87	3.81	2.29	1.02	1.65	1.52	1.65

J	K	L	N	Q	wt.
.300	.060	.060	.105	.070	grams
7.62	1.52	1.52	2.67	1.78	0.50

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