Features

• Small size • Temperature stable · Excellent rejection

Applications Military radio · Lab use

· High power handling

Bandpass Filter

50Q 770 to 870 MHz

SYBP-820+



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

Electrical Specifications at 25°C

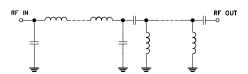
Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Center Frequency	_	_	_	820	_	MHz
Pass Band	Insertion Loss	F1-F2	770-870	_	1.8	2.5	dB
	VSWR	F1-F2	770-870	_	1.6	1.9	:1
Cton Bond Lawer	Insertion Loss	DC-F3	DC-450	20	30	_	dB
Stop Band, Lower	VSWR	DC-F3	DC-450	_	15	_	:1
Ston Bond Unner	Insertion Loss	F4-F5	1420-2500	20	24	_	dB
Stop Band, Upper	VSWR	F4-F5	1420-2500	_	20	_	: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			

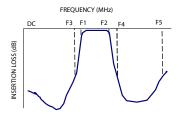
*Passband rating, derate linearly to 3W at 85°C ambient

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

Functional Schematic



Typical Frequency Response

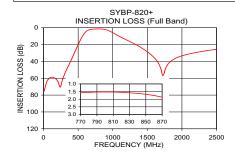


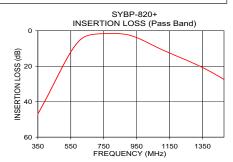
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

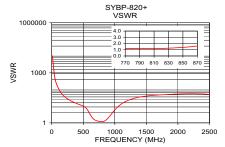
The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.



Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
10.00	75.30	10535.50
100.00	59.03	131.97
200.00	63.25	38.70
350.00	46.97	17.16
450.00	29.29	12.17
500.00	20.23	10.32
770.00	1.56	1.21
870.00	1.87	1.59
1000.00	5.96	5.96
1200.00	14.55	21.53
1420.00	24.19	36.98
1480.00	27.47	39.63
1680.00	45.49	46.53
2000.00	33.42	53.43
2500.00	25.64	49.80







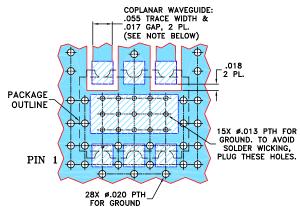
ISO 9001 ISO 14001 AS 9100 CERTIFIED
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicipality.com ISO 9001 ISO 14001 AS 9100 CERTIFIED

Page 2

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:

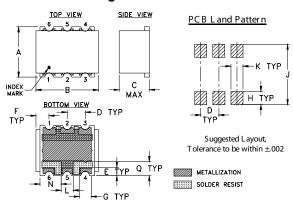
NOIES:

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	B . 31 7.87	.15	.090	.040	.065	.060	.065
300	.060	.060	.105	.070		g	wt.



For detailed performance spect & shopping online see web site

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