Bandpass Filter

50Q 2500 to 2780 MHz

SYBP-2640+



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

Тур

2640

2.3

2.0

23

15

30

10

20

20

Max.

2.9

2.5

Unit

MHz

dB

:1

dB

dB

:1

Features

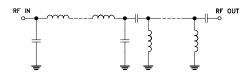
- High power handling
- · Small size
- Temperature stable
- Excellent rejection

Applications

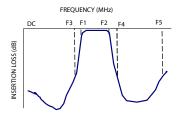
- Satellite

Mobile • Lab use

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 RF Power Input 7W* max. at 25°C

Parameter

Pass Band

Stop Band, Lower

Stop Band, Upper

Center Frequency

Insertion Loss

Insertion Loss

Insertion Loss

VSWR

VSWR

VSWR

Permanent damage may occur if any of these limits are exceeded

Typical Performance Data at 25°C

Electrical Specifications at 25°C

Frequency (MHz)

2500 - 2780

2500 - 2780

DC - 1780

DC - 1780

3800 - 6040

3800 - 6040

F#

F1-F2

F1-F2

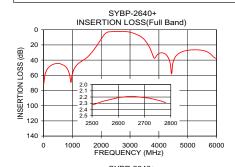
DC-F3

DC-F3

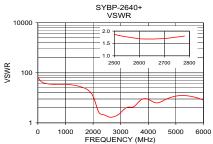
F4-F5

F4-F5

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	
10.00	71.24	66.50	
100.00	54.17	47.56	
500.00	44.39	34.98	
1000.00	58.56	34.73	
1520.00	36.11	28.34	
1600.00	33.17	26.66	
1780.00	24.59	21.89	
2000.00	12.23	11.50	
2500.00	2.33	1.87	
2780.00	2.29	1.80	
3000.00	3.22	2.54	
3720.00	26.76	8.04	
4000.00	31.36	8.73	
5000.00	27.09	11.73	
6040.00	35.70	7.78	







Mini-Circuits
ISO 9001 ISO 14001 AS 9100 CERTIFIED

For detailed performance specs & shopping online see web site

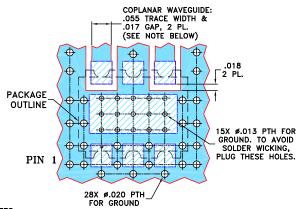
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicipality.com IF/RF MICROWAVE COMPONENTS

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

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:

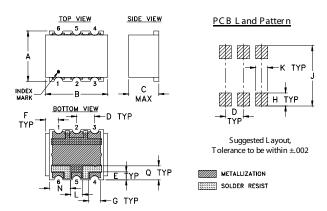
NOIES:

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)

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

