Surface Mount

High Pass Filter

SCHF-25

50Ω 27.5 to 200 MHz

Generic photo used for illustration purposes only

CASE STYLE: YY161

Maximum Ratings

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

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

Pin Connections

RF IN	1
OUTPUT	8
GROUND	2,3,4,5,6,7

Features

- low pass band insertion loss
- custom models available

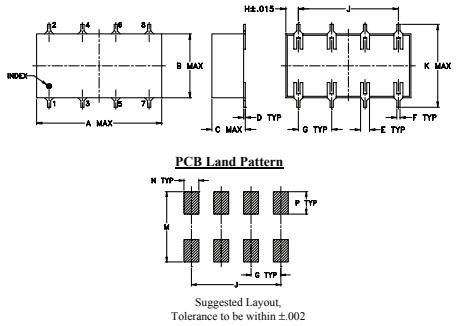
Applications

- VHF
- lab use
- transmitters/receivers

High Pass Filter Electrical Specifications

STOP BAND (MHz)		fco, MHz Nom.	PASSBAND (MHz)	VSWR (:1)		POWER INPUT (W)
		(loss 3 dB)		Stopband	Passband	
(loss > 40 dB)	(loss > 20 dB)	Typ.	(loss < 1 dB)	Typ.	Typ.	
DC-13	13-19	25	27.5-200	18	1.3	0.5

Outline Drawing



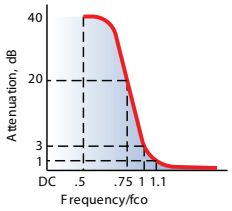
Suggested Layout,
Tolerance to be within ±.002

Outline Dimensions (inch / mm)

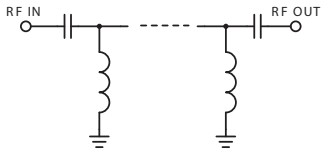
A	B	C	D	E	F	G
0.75	0.38	0.28	0.01	0.05	0.02	0.2
19.05	9.65	7.11	0.25	1.27	0.51	5.08

H	J	K	M	N	P	wt
0.075	0.6	0.45	0.47	0.1	0.15	grams
1.91	15.24	11.43	11.94	2.54	3.81	1.60

typical frequency response



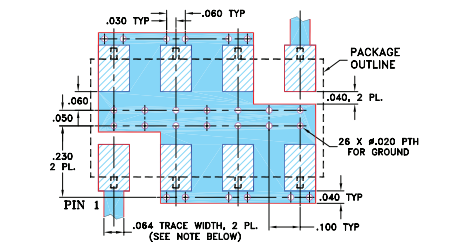
electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	97.10	0.00
6.00	87.20	0.00
7.90	79.30	0.00
9.30	72.10	0.00
12.00	58.60	4.00
13.00	53.80	4.00
15.10	44.30	7.00
16.20	39.50	8.00
18.30	30.50	0.10
19.00	27.60	0.20
20.40	21.60	0.20
21.80	15.70	0.50
22.50	12.70	0.70
25.00	3.40	4.60
68.80	0.20	39.60
90.60	0.20	25.50
112.50	0.20	22.40
156.30	0.30	20.60
178.10	0.30	20.10
200.00	0.30	19.70

Demo Board MCL P/N: TB-187+
Suggested PCB Layout (PL-049)

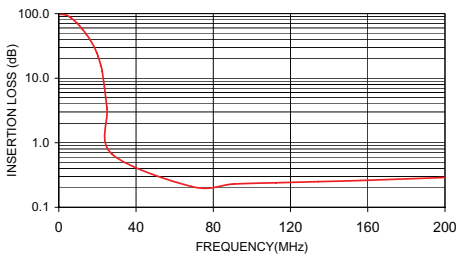


NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .030" ± .002"; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

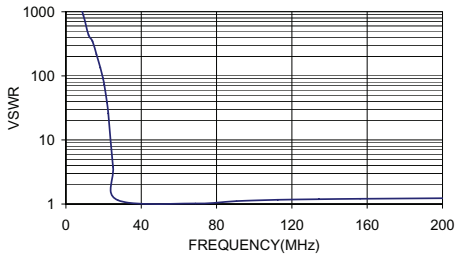
DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

SCHF-25
INSERTION LOSS



SCHF-25
VSWR



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.
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