High Pass Filter

SCHF-25

27.5 to 200 MHz 50Ω

CASE STYLE: YY161

Maximum Ratings

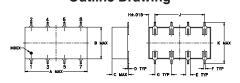
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C

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

Outline Drawing



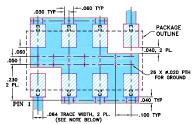


Tolerance to be within ±.002

Outline Dimensions (inch)

G	F	E	D	С	В	Α
0.2	0.02	0.05	0.01	0.28	0.38	0.75
5.08	0.51	1.27	0.25	7.11	9.65	19.05
wt	Р	N	M	K	J	Н
grams	0.15	0.1	0.47	0.45	0.6	0.075
1.60	3.81	2.54	11.94	11.43	15.24	1.91

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



1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS. 303" ± .002"; COPPER: 1/2 0Z. 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

Features

- · low pass band insertion loss
- custom models available

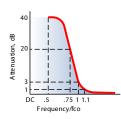
Applications

- VHF
- lab use
- transmitters/receivers

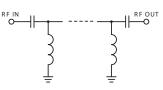
High Pass Filter Electrical Specifications

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

typical frequency response

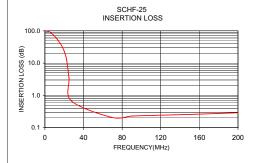


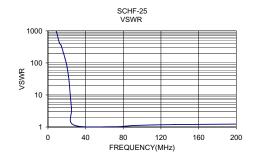
electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	
(1011 12)	(ub)	(.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	





- 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-Circuit satandard limited warranty and terms and conditions (collectively, "Standard Terms"); Prochasers 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