

Surface Mount High Pass Filter

27.5 to 200 MHz

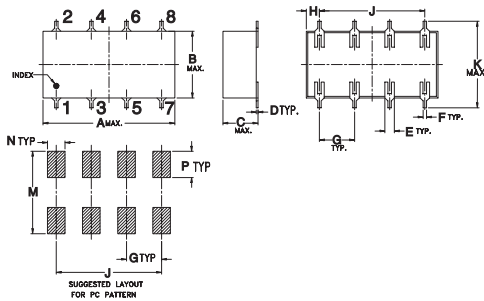
Maximum Ratings

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

Pin Connections

INPUT	1
OUTPUT	8
GROUND	2,3,4,5,6,7

Outline Drawing

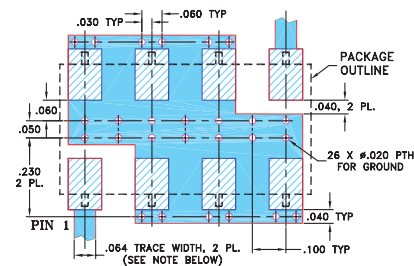


Outline Dimensions (inch mm)

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

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



- NOTES:
- 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.
 - 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 passband insertion loss
- custom models available

Applications

- VHF
- lab use
- transmitters/receivers

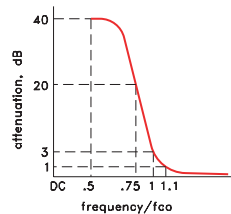


CASE STYLE: YY161
PRICE: \$14.95 ea. QTY. (1-9)

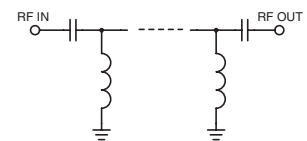
High Pass Filter Electrical Specifications

MODEL NO.	STOP BAND (MHz)	fco, MHz Nom.	PASSBAND (MHz)	VSWR (:1) Typ.	POWER INPUT (W)
	(loss>40 dB) (loss>20 dB)	(loss 3 dB)	(loss<1 dB)	Stopband Passband	
SCHF-25	DC-13 13-19	25	27.5-200	18 1.3	0.5

typical frequency response



schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	97.06	1737.18
3.80	95.59	1737.18
6.00	87.15	1737.18
9.30	72.14	868.59
12.00	58.58	434.30
14.10	48.78	347.44
16.20	39.48	217.15
18.30	30.50	133.63
19.70	24.61	91.43
20.40	21.64	72.39
21.80	15.69	38.61
22.50	12.70	25.94
25.00	3.40	3.86
27.50	0.67	1.15
68.80	0.21	1.02
90.60	0.23	1.11
112.50	0.24	1.16
134.40	0.25	1.19
156.30	0.26	1.21
200.00	0.29	1.23

