Surface Mount

High Pass Filter

50Ω 18 to 200 MHz

SCHF-17+
SCHF-17

CASE STYLE: YY161
PRICE: $15.95 ea. QTY. (1-9)

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

The +Suffix identifies 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

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

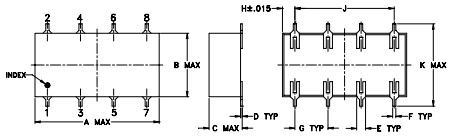
Applications

- HF/VHF
- lab use
- transmitters/receivers

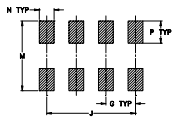
High Pass Filter Electrical Specifications

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-9	9-13	16.5	18-200	18	1.25	0.5

Outline Drawing

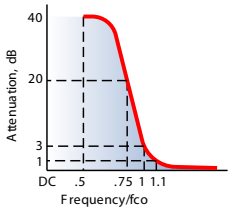


PCB Land Pattern

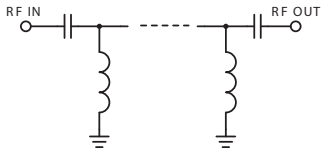


Suggested Layout,
Tolerance to be within ±.002

typical frequency response



electrical schematic



Outline Dimensions (inch / mm)

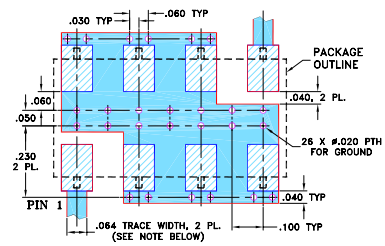
A	B	C	D	E	F	G
0.75	0.38	0.28	0.01	0.05	0.02	0.2
19.05	9.65	7.11	0.25	1.27	0.51	5.08

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 Performance Data

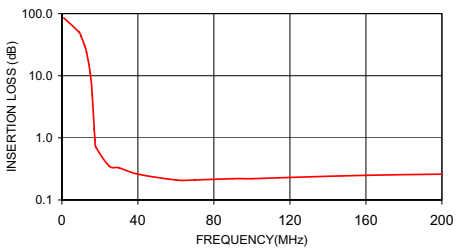
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
0.99	85.38	1737.18
8.96	50.79	217.15
10.00	43.91	124.09
12.01	30.33	69.49
13.00	23.71	48.26
14.96	11.00	16.11
15.96	4.97	55.54
17.04	1.38	1.76
17.46	0.92	1.30
18.00	0.70	1.11
24.96	0.35	1.09
30.10	0.33	1.26
40.00	0.26	1.17
60.06	0.21	1.03
70.09	0.21	1.06
90.17	0.22	1.10
100.22	0.22	1.11
119.85	0.23	1.12
160.59	0.25	1.13
200.00	0.26	1.14

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

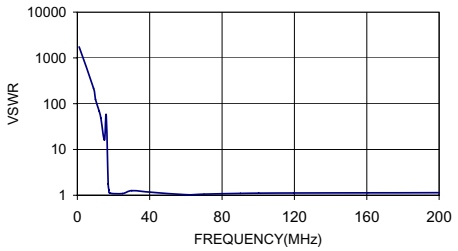


NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .030" ± .002"; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

SCHF-17
INSERTION LOSS



SCHF-17
VSWR



REV. A
M122594
SCHF-17
EDR-3754/1
RAV
100427