High Pass Filter

27.5 to 200 MHz 50Ω

Maximum Ratings

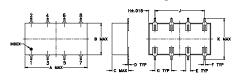
| Operating Temperature | -40°C to 85°C |
|-----------------------|----------------|
| Storage Temperature | -55°C to 100°C |

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



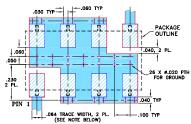


Tolerance to be within ±.002

Outline Dimensions (inch)

| G | F | Ε | 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 |
| 0 | | | 0.47 11.94 | | | |

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



(SEL NOIL BELLOW)

1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS 030" ± .002"; COPPER: 1/2 02. 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

SCHF-25

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

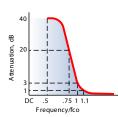
Applications

- VHF
- lab use
- transmitters/receivers

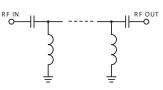
High Pass Filter Electrical Specifications

| STOP (MI | BAND Hz) | fco, MHz Nom. | PASSBAND (MHz) | | WR 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

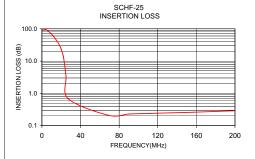


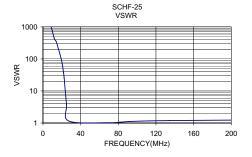
electrical schematic



Typical Performance Data

| Frequency | Insertion Loss | VSWR |
|-----------|----------------|-------|
| (MHz) | (dB) | (: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 |
| | | |





For detailed performance specs & shopping online see web site

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