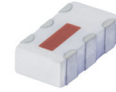


# High Pass Filter

50Ω 6000 to 11500 MHz

HFCN-5500+



Generic photo used for illustration purposes only

CASE STYLE: FV1206-1

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Available Tape and Reel at no extra cost

|           |                                   |
|-----------|-----------------------------------|
| Reel Size | Devices/Reel                      |
| 7"        | 20, 50, 100, 200, 500, 1000, 3000 |

## Maximum Ratings

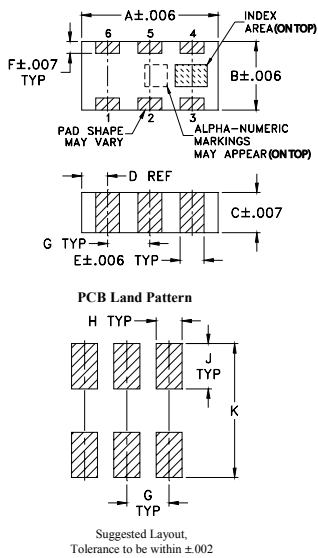
|                       |                 |
|-----------------------|-----------------|
| Operating Temperature | -55°C to 100°C  |
| Storage Temperature   | -55°C to 100°C  |
| RF Power Input*       | 7W max. at 25°C |

\*Passband rating, derate linearly to 3W at 100°C ambient. Permanent damage may occur if any of these limits are exceeded.

## Pin Connections

|        |         |
|--------|---------|
| RF IN  | 1       |
| RF OUT | 3       |
| GROUND | 2,4,5,6 |

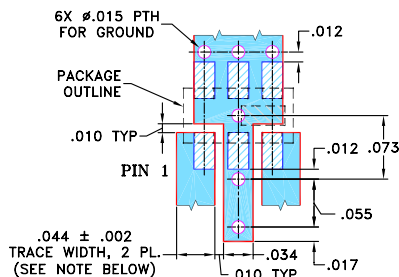
## Outline Drawing



## Outline Dimensions (inch)

| A    | B    | C    | D    | E     | F    |
|------|------|------|------|-------|------|
| .126 | .063 | .035 | .024 | .022  | .011 |
| 3.20 | 1.60 | 0.89 | 0.61 | 0.56  | 0.28 |
| G    | H    | J    | K    | wt    |      |
| .039 | .024 | .042 | .123 | grams |      |
| 0.99 | 0.61 | 1.07 | 3.12 | .020  |      |

## Demo Board MCL P/N: TB-285 Suggested PCB Layout (PL-158)



- DENOTES PCB COPPER LAYOUT
- DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK

## Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- The parts covered by this specification document are subject to Mini-Circuit's standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers 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-Circuit's website at [www.minicircuits.com/MCLStore/terms.jsp](http://www.minicircuits.com/MCLStore/terms.jsp)

## Features

- Low cost
- Small size
- 5 sections
- Temperature stable
- Excellent power handling, 7W
- Hermetically sealed
- LTCC construction
- Protected by US Patent 7,760,485

## Applications

- Sub-harmonic rejection
- Transmitters / receivers

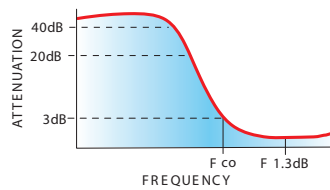
## Electrical Specifications<sup>(1,2)</sup> at 25°C

| STOPBAND (MHz)     | f <sub>co</sub> , MHz Nom. | PASSBAND (MHz)   | VSWR Typ. Frequency (MHz) | POWER INPUT (W)   | NO. OF SECTIONS |
|--------------------|----------------------------|------------------|---------------------------|-------------------|-----------------|
| (Loss > 30dB) Typ. | (Loss > 20dB) Min.         | (Loss 3 dB) Typ. | (Loss < 1.5dB) Stopband   | (Loss < 2dB) Max. | 1.5:1           |
| 4000               | 4500                       | 5500             | 5600-11000                | 6000-11500        | 7               |

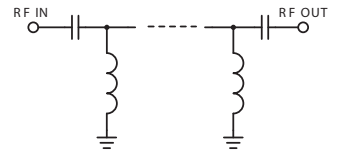
(1) In Application where DC voltage is present at either input or output ports, coupling capacitors are required. Alternatively, Mini-Circuit's "D" suffix version of this model will provide >100 MOhm isolation to ground.

(2) Measured on Mini-Circuit's Characterization Test Board TB-285.

## typical frequency response

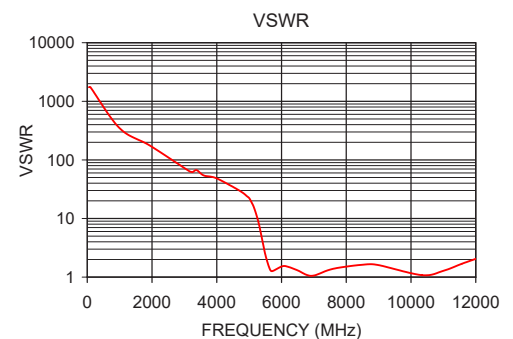
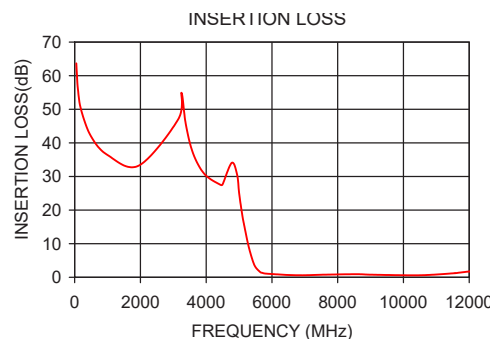


## electrical schematic



## Typical Performance Data at 25°C

| Frequency (MHz) | Insertion Loss (dB) | VSWR (:1) |
|-----------------|---------------------|-----------|
| 50              | 63.32               | 1737.18   |
| 500             | 41.73               | 868.59    |
| 1000            | 36.12               | 434.30    |
| 3250            | 44.07               | 62.05     |
| 4000            | 32.16               | 45.72     |
| 4500            | 27.90               | 34.75     |
| 5000            | 26.03               | 22.29     |
| 5500            | 3.24                | 2.44      |
| 5600            | 2.05                | 1.53      |
| 6000            | 1.39                | 1.53      |
| 6600            | 1.05                | 1.22      |
| 9000            | 1.09                | 1.60      |
| 10000           | 0.79                | 1.24      |
| 11500           | 1.18                | 1.64      |
| 12000           | 1.71                | 2.05      |



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