

# LTCC 高通滤波器 (High Pass Filter)

HT-HFCN-7150+

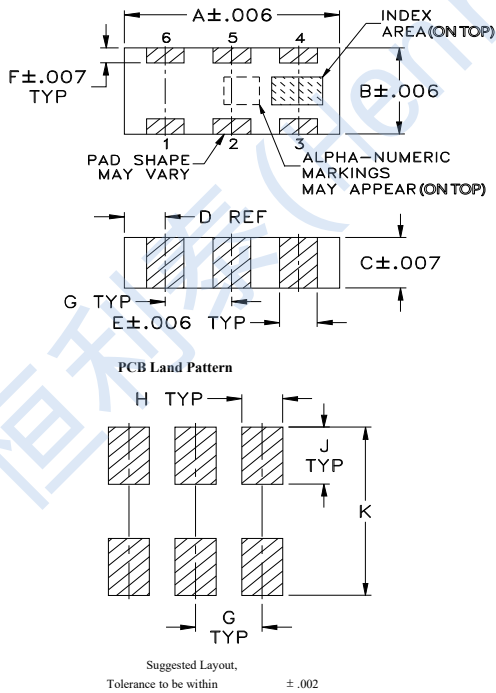
## Features

Low cost  
Small size  
7 sections  
Temperature stable  
LTCC construction  
Excellent power handling, 7W  
Hermetically sealed

## Applications

Sub-harmonic rejection  
Transmitters/receivers  
Lab use

## Outline Drawing



## Outline Dimensions

| 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  |      |

## Functional Schematic



50 Ω  
7900MHz to 11000MHz

## Electrical Specifications(1,2) at 25°C

| Parameter              | Frequency (MHz) | Min. | Typ. | Max. | Units |
|------------------------|-----------------|------|------|------|-------|
| Rejection Loss         | 5100            |      | 30   |      | dB    |
| Stopband Freq. Cut-Off | 6150            | 20   |      |      | dB    |
| VSWR                   | 7150            |      | 3.0  |      |       |
|                        | 5100-6150       |      | 20   |      | :1    |
| Insertion Loss         | 7900-11000      |      |      | 2.0  | dB    |
| Passband               | 8500-10500      |      |      | 1.5  | dB    |
| VSWR                   | 7250-11000      |      | 1.5  |      | :1    |

## Pad Connections

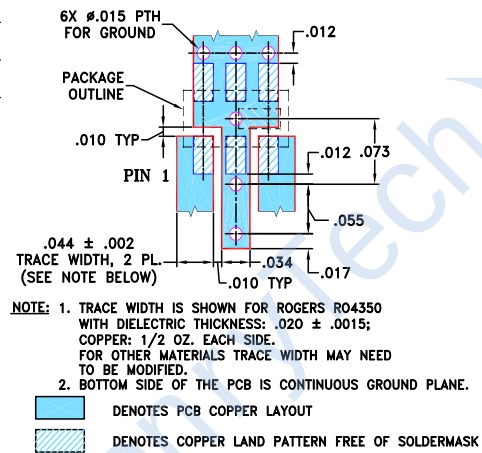
|        |         |
|--------|---------|
| RF IN  | 1       |
| RF OUT | 3       |
| GROUND | 2,4,5,6 |

## Maximum Ratings

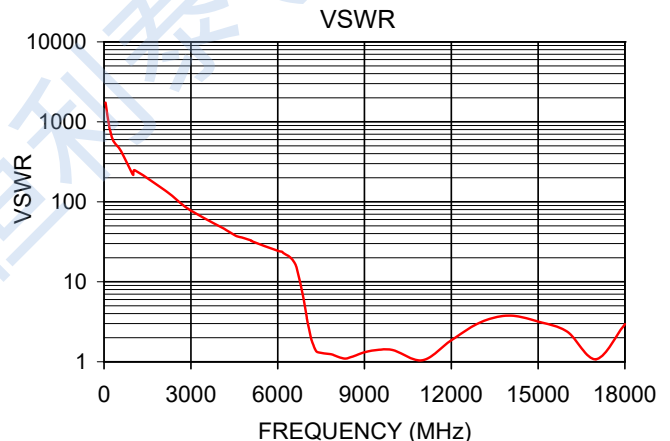
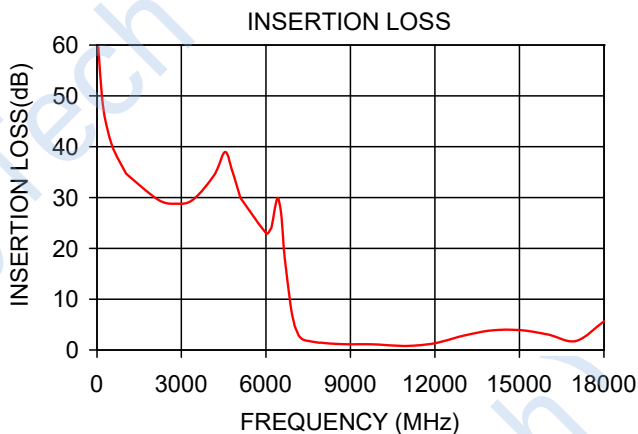
|                       |                 |
|-----------------------|-----------------|
| Operating Temperature | -55°C to +100°C |
| Storage Temperature   | -55°C to +100°C |
| RF Power Input*       | 7W max at 25°C  |

\*Permanent damage may occur if any of these limits are exceeded.

## Suggested PCB Layout



## Typical Performance Data at 25°C



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