

# LTCC 高通滤波器 (High Pass Filter)

HT-HFCN-3800+

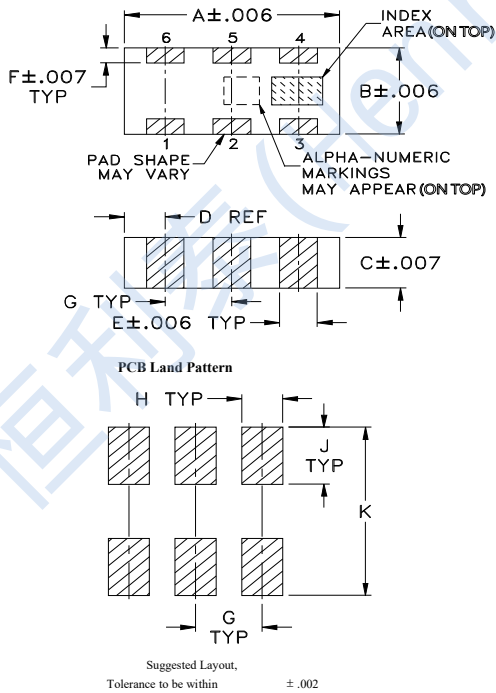
## Features

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

## Applications

Sub-harmonic rejection  
Transmitters/receivers  
Lab use

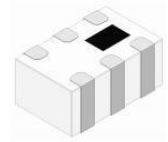
## Outline Drawing



## 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



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

| STOPBAND (MHz)              | fco, MHz Nom. | PASSBAND (MHz)              | VSWR Typ.       | POWER INPUT (W) | NO. OF SECTIONS |
|-----------------------------|---------------|-----------------------------|-----------------|-----------------|-----------------|
| (Loss > 30dB) (Loss > 20dB) | (Loss 3 dB)   | (Loss < 1.5dB) (Loss < 2dB) | Frequency (MHz) |                 |                 |
| Typ. Min.                   | Typ.          | Max. Max.                   | Stopband 1.5:1  | Max.            |                 |
| 2500 3200                   | 3800          | 4500-9000 4250-10000        | 20:1 3950-10000 | 7               | 5               |

## Pad Connections

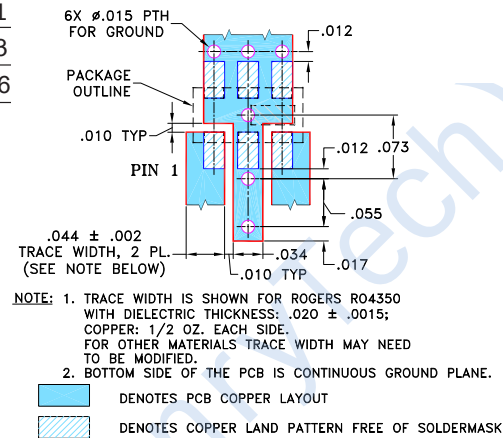
|        |         |
|--------|---------|
| RF IN  | 1       |
| RF OUT | 3       |
| GROUND | 2,4,5,6 |

## Maximum Ratings

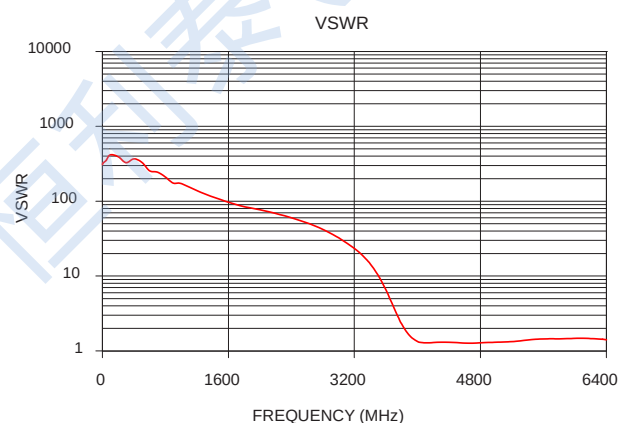
|                       |                 |
|-----------------------|-----------------|
| Operating Temperature | -55°C to +100°C |
| Storage Temperature   | -55°C to +100°C |
| RF Power Input*       | 7W max at 25°C  |

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

## Suggested PCB Layout



## Typical Performance Data at 25°C



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