

High Pass Filter

Features

- excellent power handling
- Small size
- 7 sections
- temperature stable
- LTCC construction with great moisture resistance, corrosion resistance, and high reliability

Applications

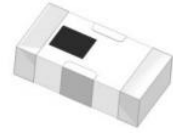
- sub-harmonic rejection
- transmitters/receivers
- base station of mobile communication and lab use

Electrical Specifications¹ at 25°C

| Parameter | | Frequency(MHz) | Min. | Typ. | Max. | Unit |
|-----------|----------------|----------------|------|------|------|------|
| Pass Band | Insertion Loss | 1950-4500 | - | - | 1.4 | dB |
| | | 1700-5000 | - | - | 2.0 | dB |
| | VSWR | 1700-4500 | - | - | 2.0 | :1 |
| Stop Band | Rejection Loss | 100-1250 | 20 | - | - | dB |
| | | 100-1000 | 40 | - | - | dB |

1. In Application where DC voltage is present at either input or output ports, coupling capacitors are required.

JY-HFCN-1600+



50Ω 1700~5000MHz

Pin Connections

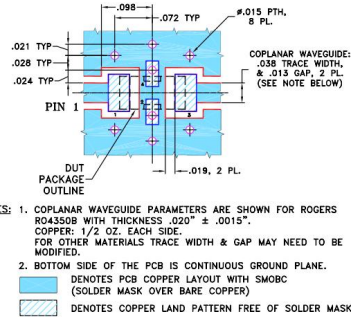
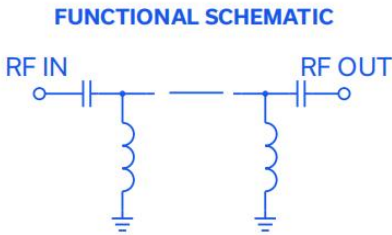
| | |
|--------|-----|
| RF IN | 1 |
| RF OUT | 3 |
| GROUND | 2,4 |

Maximum Ratings

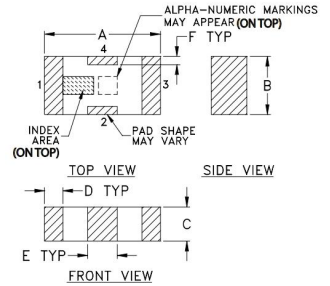
| | |
|-----------------------|----------------|
| Operating Temperature | -40°C to 85°C |
| Storage Temperature | -40°C to 85°C |
| RF Power Input | 7W max.at 25°C |

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

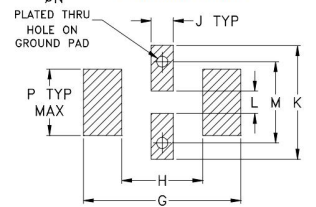
Suggested PCB Layout



Outline Drawing



PCB Land Pattern



Suggested Layout
Tolerance to be within ±0.15

Outline Dimensions: Unit (mm)

| | | | | | |
|---|------|---|------|----|-------|
| A | 3.20 | B | 1.60 | C | 0.95 |
| D | 0.51 | E | 0.81 | F | 0.23 |
| G | 4.29 | H | 2.21 | J | 0.61 |
| K | 3.10 | L | 0.61 | M | 2.21 |
| N | 0.30 | P | 1.80 | wt | 0.02g |

