成都恒利泰科技有限公司
Chengdu HenryTech Technology co., Ltd

# LTCC 高通滤波器（High Pass Filter）　HT-HFCN-2100+

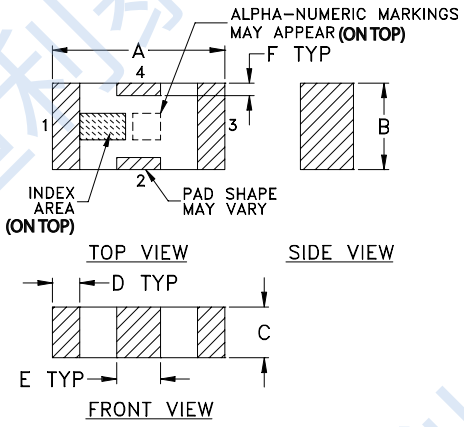
## Features
- Low insertion loss.
- Good rejection.
- LTCC Construction.
- temperature stable.
- Small size.

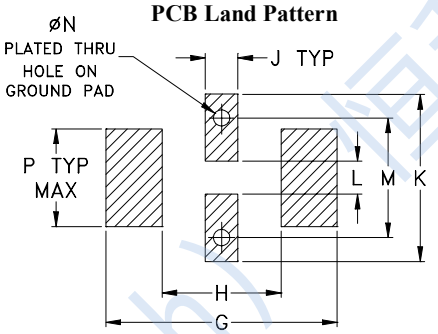
## Applications
- Sub-harmonic rejection.
- Transmitters/receivers.
- Lab use.

## Pad Connections

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

## Outline Drawing



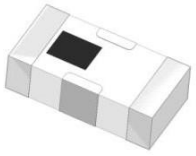

Suggested Layout,
Tolerance to be within ±.002

## Outline Dimensions： inch / mm

| A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|
| .126 | .063 | .037 | .020 | .032 | .009 | .169 |
| 3.20 | 1.60 | 0.94 | 0.51 | 0.81 | 0.23 | 4.29 |

| H | J | K | L | M | N | P | wt |
|---|---|---|---|---|---|---|---|
| .087 | .024 | .122 | .024 | .087 | .012 | .071 | grams |
| 2.21 | 0.61 | 3.10 | 0.61 | 2.21 | 0.30 | 1.80 | .020 |

## Functional Schematic

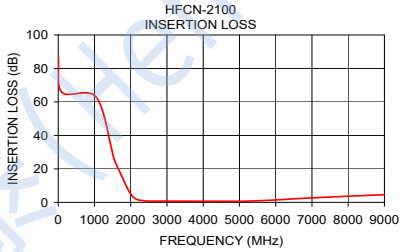
50 Ω
2200MHz to 6000MHz

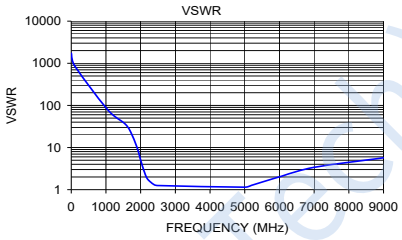
## Electrical Specifications(1) at 25°C

| Parameter | | Frequency (MHz) | Min. | Typ. | Max. | Units |
|---|---|---|---|---|---|---|
| Pass Band | Insertion Loss | 2200-6000 | — | 2.0 | — | dB |
| | | 2500-5000 | — | — | 1.3 | |
| | VSWR | 2400-5200 | — | 1.5 | — | : 1 |
| Stop Band | Rejection Loss | 1050 | 40 | — | — | dB |
| | | 1530 | 20 | — | — | |
| | Freq. Cut-Off | 2100 | — | 3.0 | — | dB |
| | VSWR | 1050-1530 | — | 20 | — | : 1 |

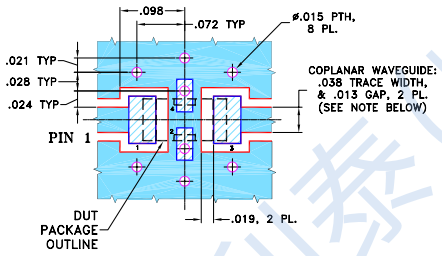
1.In Application where DC voltage is present at either input or output ports, coupling capacitors are required.

## Typical Performance Data at 25°C




## Suggested PCB Layout




NOTES:
1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350B WITH THICKNESS .020" ± .0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH & GAP 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

## Maximum Ratings

| | |
|---|---|
| Operating Temperature | -55°C to +125°C |
| Storage Temperature | -55°C to +125°C |
| RF Power Input* | 7W at 25°C |

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