

# LTCC 带通滤波器 (Bandpass Filter)

HT-BFCN-3115+

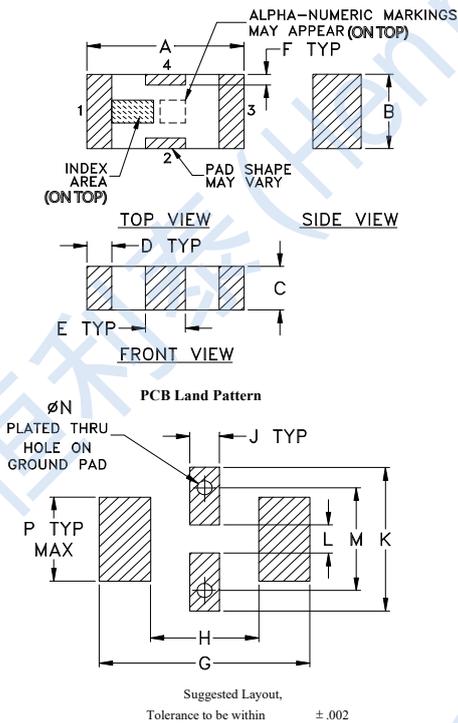
## Features

- Small size
- Temperature stable
- Hermetically sealed
- LTCC construction

## Applications

- Harmonic Rejection
- Transmitters / Receivers
- Test and Measurement

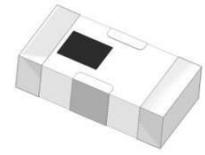
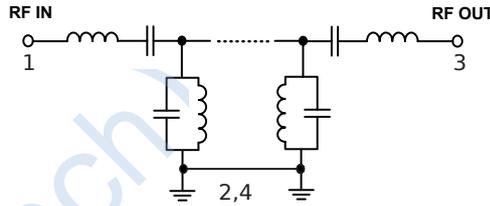
## Outline Drawing



## 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  
2720MHz to 3750MHz

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

| Parameter                  | Frequency (MHz) | Min. | Typ. | Max. | Units |
|----------------------------|-----------------|------|------|------|-------|
| Center Frequency           | —               | —    | 3115 | —    | MHz   |
| Passband Insertion Loss    | 2720 - 3570     | —    | 1.7  | 3    | dB    |
| Passband Return Loss       | 2720 - 3570     | 6    | 8.5  | —    | dB    |
| Stop Band, Lower Rejection | DC - 1850       | 20   | 24   | —    | dB    |
| Stop Band, Upper Rejection | 4300 - 8160     | 20   | 23   | —    | dB    |

## Pad Connections

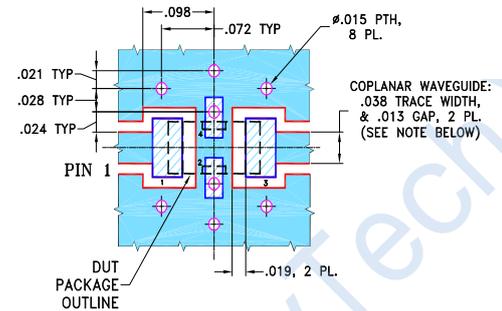
|        |     |
|--------|-----|
| Input  | 1   |
| Output | 3   |
| Ground | 2,4 |

## Maximum Ratings

|                       |                 |
|-----------------------|-----------------|
| Operating Temperature | -55°C to +100°C |
| Storage Temperature   | -55°C to +100°C |
| RF Power Input*       | 2W max at 25°C  |

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

## 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.

## Typical Performance Data at 25°C



Typical Performance Data at 25°C

