

LTCC 带通滤波器 (LTCC Bandpass Filter)

HT-BFHKI-1572+

50 Ω 13.9GHz to 17.5GHz

The Big Deal

- LTCC Band Pass Filter with Integrated Interposer Board
- Wide Stopband Rejection, Typ. 42 dB up to 40 GHz
- Small Size, 4.95 mm x 3.65 mm
- Shielded Construction

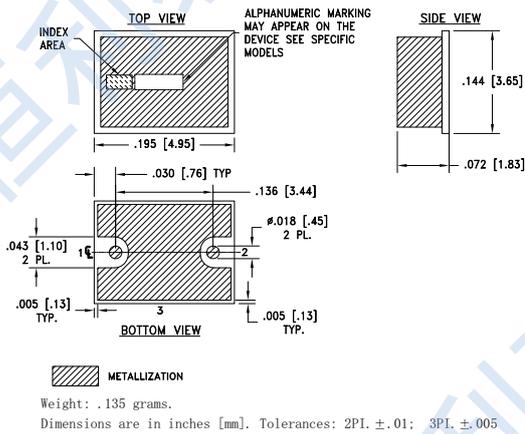
Features and Applications

- Test & Measurement Equipment

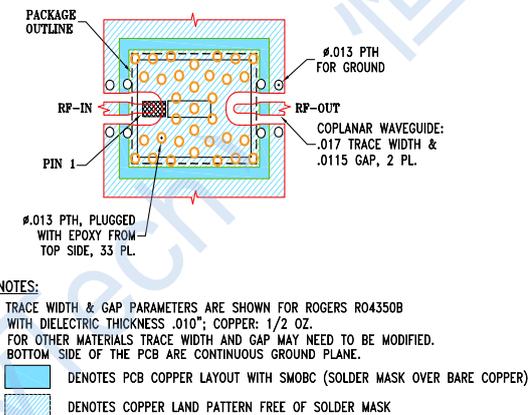
Pad Connections

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

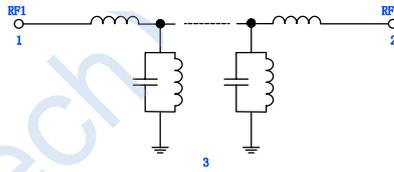
Outline Drawing



PCB Land Pattern



Functional Schematic

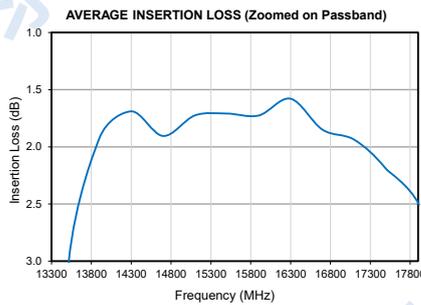
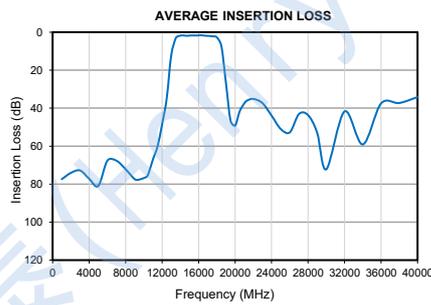


Electrical Specifications(1,2,3,4) at 25°C

| Parameter | | Frequency (GHz) | Min. | Typ. | Max. | Unit |
|-----------|------------------|-----------------|------|------|------|------|
| Passband | Center Frequency | — | — | 15.7 | — | GHz |
| | Insertion Loss | 13.9 - 17.5 | — | 3.2 | 4.0 | dB |
| | Return Loss | 13.9 - 17.5 | — | 8 | — | dB |
| Stopband | Rejection | 0.1 - 10.3 | 55 | 65 | — | dB |
| Stopband | Rejection | 21.3 - 40 | 27 | 42 | — | dB |

1. Measured with the connector and feedline effects de-embedded using the 2XThru IEEE P370 method.
2. Bi-directional RF1 and RF2 ports can be interchanged.
3. This component should not be used as a DC-block. In applications where DC voltage and/or current is present at either the input or output ports, external DC blocking capacitors are required.
4. Typical variation ± 5%

Typical Performance Data at 25°C



Maximum Ratings

| | |
|-----------------------|-----------------|
| Operating Temperature | -55°C to +100°C |
| Storage Temperature | -55°C to +100°C |
| RF Power Input* | 1W at 25°C |

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