

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

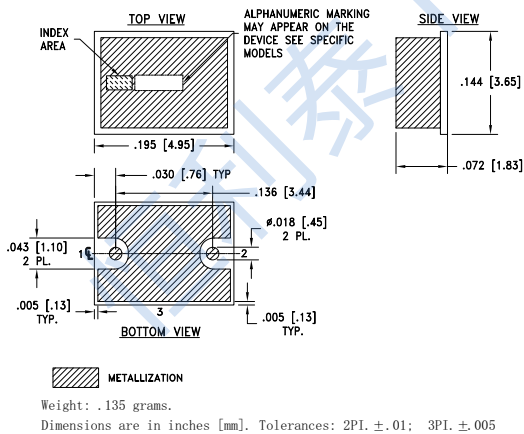
Features and Applications

- Test & Measurement Equipment

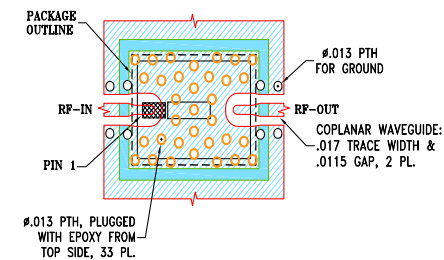
Pad Connections

Input	1
Output	2
Ground	3

Outline Drawing



PCB Land Pattern

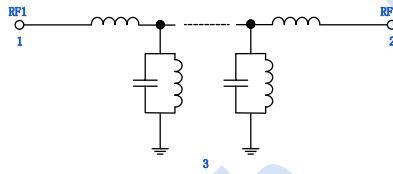


NOTES:

1. TRACE WIDTH & GAP PARAMETERS ARE SHOWN FOR ROGERS R04350B WITH DIELECTRIC THICKNESS .010"; COPPER: 1/2 OZ. FOR OTHER MATERIALS TRACE WIDTH AND GAP MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB ARE CONTINUOUS GROUND PLANE.

- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
- DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Functional Schematic

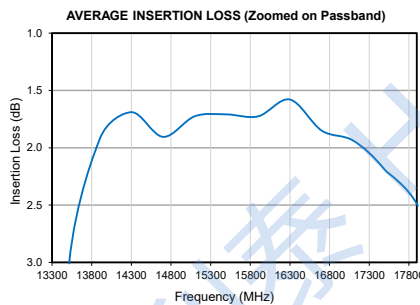
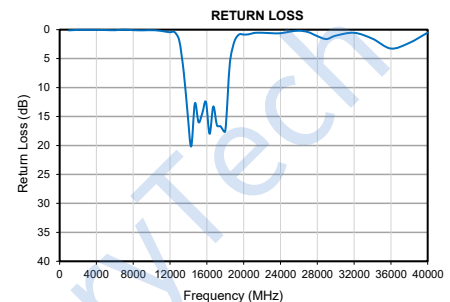
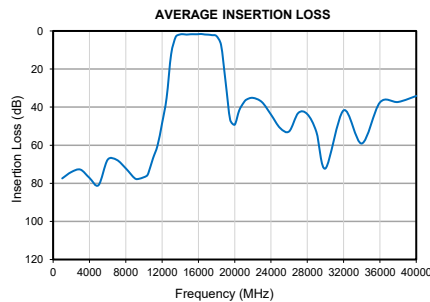


Electrical Specifications(1,2,3,4) at 25°C

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.