

Low Pass Filter

WGLL-03500

50Ω

DC to 3500 MHz

Ver. A

2019.05.13

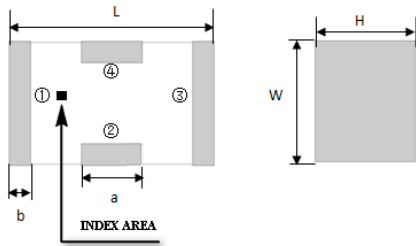
Maximum Rating

| | |
|-----------------------|----------------|
| Operating Temperature | -55°C~+100°C |
| Storage Temperature | -55°C~+100°C |
| RF Input Power | 5W max at 25°C |

Pin Connections

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

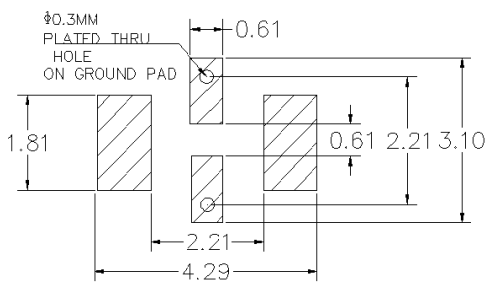
Outline Drawing



Outline Dimension(mm)

| | | |
|---------|---------|---------|
| W | L | H |
| 1.6±0.2 | 3.2±0.2 | 1.0±0.2 |
| a | b | |
| 0.8±0.1 | 0.5±0.1 | |

PCB Land Pattern(mm)



SUGGESTED LAYOUT

TOLERANCE TO BE WITHIN ±0.05mm

Features

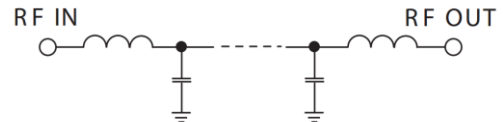
- High Performance
- Small Size
- Wide Band
- Ultra Low I.L.
- Temperature Stable
- LTCC Structure

Application

- Harmonic Rejection
- Transmitters/Receivers
- Lab Use



RoHS Compliant



Functional Schematic

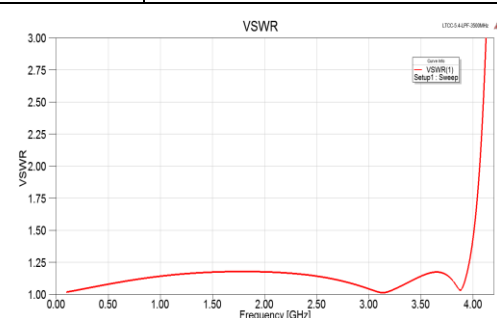
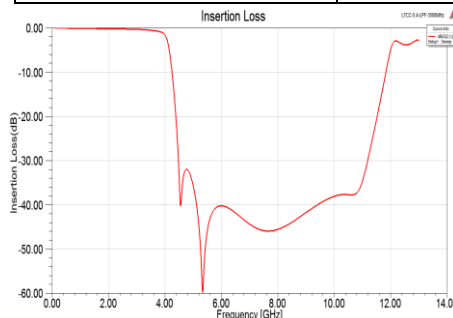
Electrical Specifications⁽¹⁾ at 25°C

| Parameter | | Frequency (MHz) | MIN | Typ. | MAX | Unit |
|-----------|----------------|-----------------|-----|------|-----|------|
| Pass Band | Insertion Loss | DC-3500 | - | 0.9 | 1.2 | dB |
| | Freq. Cut-off | 4090 | - | 3.0 | - | dB |
| | VSWR | DC-3500 | - | 1.2 | 1.5 | :1 |
| Stop Band | Rejection Loss | 4550 | 20 | 30 | - | dB |
| | | 4790-6000 | 20 | 30 | - | dB |
| | | 8000 | 20 | 30 | - | dB |

(1) Tested on Demo Board.

Typical Performance at 25°C

| Frequency (MHz) | Insertion Loss (dB) | VSWR (:1) |
|-----------------|---------------------|-----------|
| 100 | 0.07 | 1.02 |
| 500 | 0.09 | 1.08 |
| 1000 | 0.14 | 1.14 |
| 2000 | 0.23 | 1.18 |
| 3000 | 0.35 | 1.2 |
| 3500 | 0.71 | 1.15 |
| 4000 | 1.63 | 1.45 |
| 4100 | 3.32 | 5.56 |
| 4500 | 33.1 | 17.18 |
| 5000 | 35.59 | 35.43 |
| 5500 | 45.91 | 39.97 |
| 6000 | 40.2 | 46.23 |
| 7000 | 44.32 | 75.4 |
| 8000 | 45.53 | 96.4 |
| 9000 | 41.7 | 94.4 |



Notes

- The specifications are tested at 25°C±5°C, relative humidity 55~75%.
- Other quality and characteristic not specify in this datasheet. Please contact us for detail requirements.



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