

# Low Pass Filter

WGLL-00225

50Ω

DC to 225 MHz

Ver. A

2019.05.29

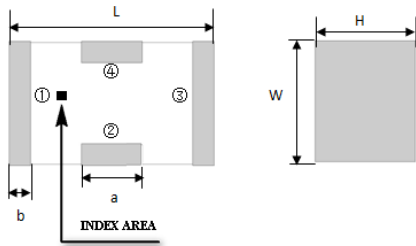
## Maximum Rating

|                       |                |
|-----------------------|----------------|
| 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 |

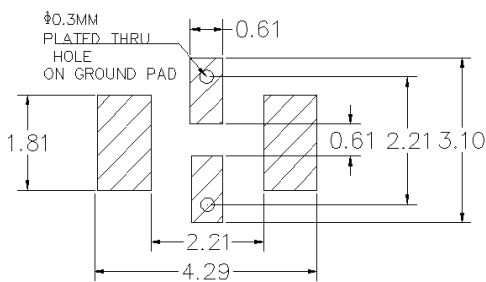
## Outline Drawing



## 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

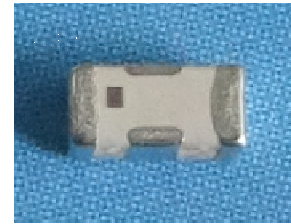
TOLERANCE TO BE WITHIN ±0.05mm

## 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

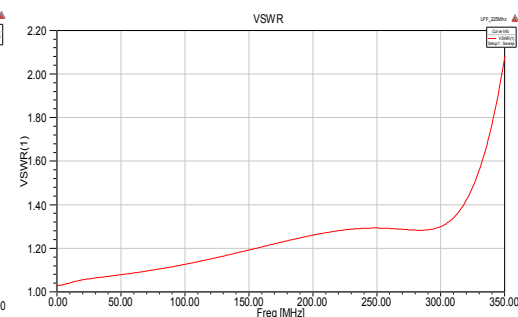
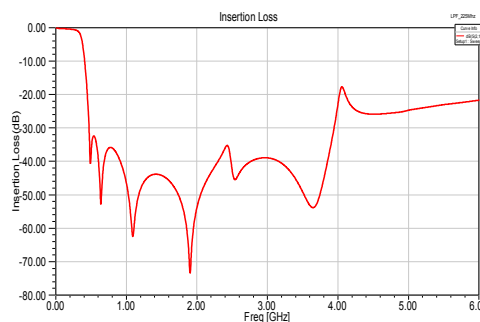
## Electrical Specifications<sup>(1)</sup> at 25°C

| Parameter | Frequency (MHz) | MIN      | Typ. | MAX | Unit |    |
|-----------|-----------------|----------|------|-----|------|----|
| Pass Band | Insertion Loss  | DC-225   | -    | 0.8 | 1.2  | dB |
|           | Freq. Cut-off   | 363      | -    | 3.0 | -    | dB |
|           | VSWR            | DC-225   | -    | 1.2 | 1.5  | :1 |
| Stop Band | Rejection Loss  | 470      | 20   | 30  | -    | dB |
|           |                 | 600-2300 | 30   | 40  | -    | dB |
|           |                 | 3900     | 20   | 30  | -    | dB |

(1) Tested on Demo Board.

## Typical Performance at 25°C

| Frequency (MHz) | Insertion Loss (dB) | VSWR (:1) |
|-----------------|---------------------|-----------|
| 50              | 0.26                | 1.08      |
| 100             | 0.32                | 1.12      |
| 225             | 0.52                | 1.28      |
| 360             | 2.78                | 2.54      |
| 425             | 13.36               | 13.33     |
| 450             | 20.5                | 21.34     |
| 500             | 38.45               | 36.96     |
| 640             | 52.8                | 76.02     |
| 700             | 38.6                | 88.95     |
| 800             | 38.9                | 105       |
| 900             | 39.16               | 114       |
| 1100            | 62.4                | 113       |
| 1900            | 73.4                | 68        |
| 2500            | 42.4                | 6.2       |
| 4000            | 22.9                | 27.76     |



## 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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