

# Low Pass Filter

## WGLL-01700-A

50Ω

DC to 1700 MHz

Ver. A  
2018.5.20

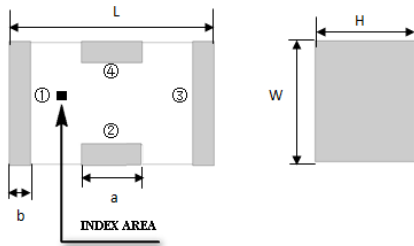
### Maximum Rating

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

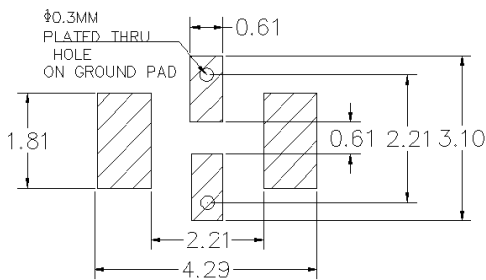
### Outline Drawing



### 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

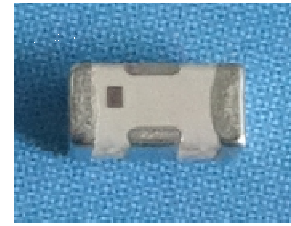
TOLERANCE TO BE WITHIN ±0.05mm

### 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

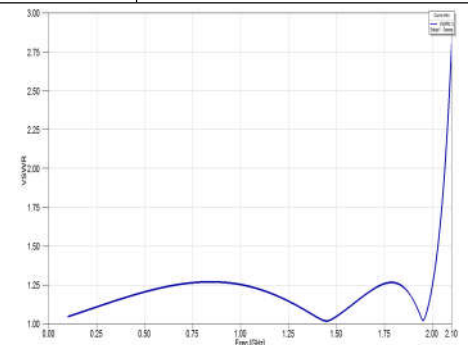
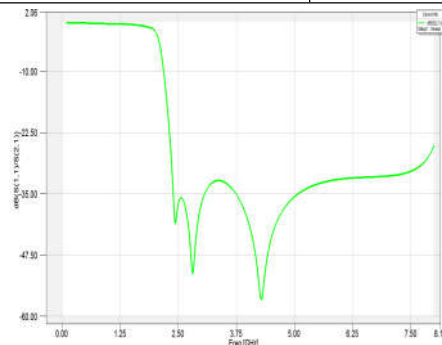
### Electrical Specifications<sup>(1)</sup> at 25°C

| Parameter | Frequency (MHz) | MIN       | Typ. | MAX | Unit |    |
|-----------|-----------------|-----------|------|-----|------|----|
| Pass Band | Insertion Loss  | DC-1700   | -    | 0.8 | 1.0  | dB |
|           | Freq. Cut-off   | 1750      | -    | 3.0 | -    | dB |
|           | VSWR            | DC-1700   | -    | 1.2 | 1.5  | :1 |
| Stop Band | Rejection Loss  | 2500      | 20   | 30  | -    | dB |
|           |                 | 3000-6500 | 20   | 30  | -    | dB |
|           |                 | 7000      | 15   | 25  | -    | dB |

(1) Test on our Demo Board.

### Typical Performance at 25°C

| Frequency (MHz) | Insertion Loss (dB) | VSWR (:1) |
|-----------------|---------------------|-----------|
| 100             | 0.14                | 1.03      |
| 500             | 0.22                | 1.2       |
| 1000            | 0.35                | 1.25      |
| 1700            | 0.74                | 1.23      |
| 2000            | 1.8                 | 1.24      |
| 2500            | 37.03               | 17.78     |
| 3000            | 36.96               | 20.56     |
| 3500            | 32.68               | 23.73     |
| 4000            | 40.53               | 31.26     |
| 4500            | 44.05               | 42.28     |
| 5000            | 35.58               | 54.63     |
| 5500            | 32.98               | 64.36     |
| 6000            | 31.99               | 73.28     |
| 6500            | 31.64               | 78.17     |
| 7000            | 31.39               | 81.47     |



### 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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