

# Low Pass Filter

## WGLL-00190

50Ω

DC to 190 MHz

Ver. A

2019.05.29

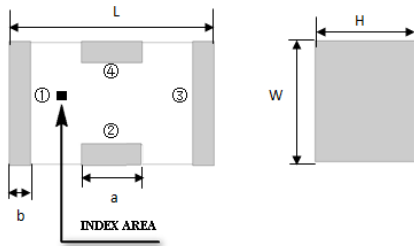
### Maximum Rating

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

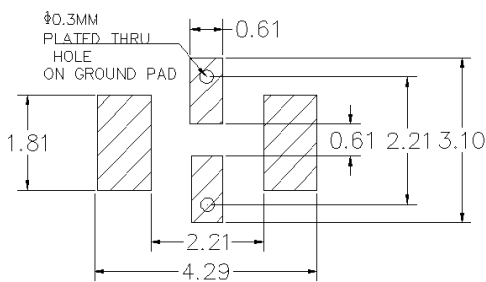
### Outline Drawing



### 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

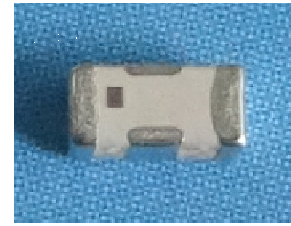
TOLERANCE TO BE WITHIN  $\pm 0.05\text{mm}$

### 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

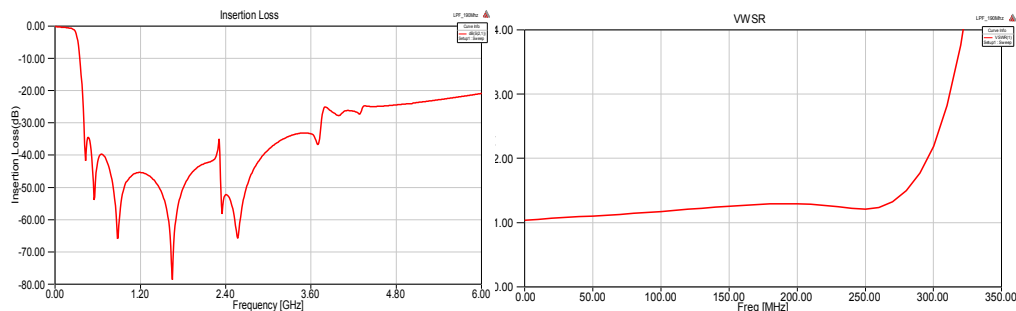
### Electrical Specifications<sup>(1)</sup> at 25°C

Parameter	Frequency (MHz)	MIN	Typ.	MAX	Unit
Pass Band	Insertion Loss	-	0.8	1.2	dB
	Freq. Cut-off	-	3.0	-	dB
	VSWR	DC-190	-	1.2	1.5
Stop Band	Rejection Loss	410	20	30	dB
		510-2910	30	40	dB
		2910-3740	20	30	dB

(1) Tested on Demo Board.

### Typical Performance at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	0.33	1.10
100	0.41	1.17
190	0.61	1.29
250	0.9	1.21
300	2.46	2.19
400	25.5	27.8
500	36.8	62.3
850	55.6	103
1000	48.4	96.37
1500	51.55	58.4
2850	42.32	24.26
3000	38.34	28.6
4500	24.9	80
5000	24.12	54.96
6000	20.9	102.3



### 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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