

# Low Pass Filter

WGLL-00180

50Ω DC to 180 MHz

Ver. A  
2019.05.29

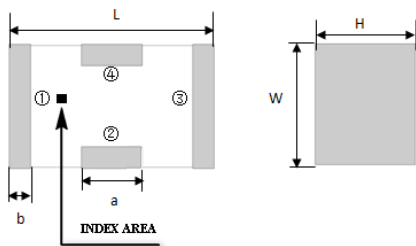
## Maximum Rating

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

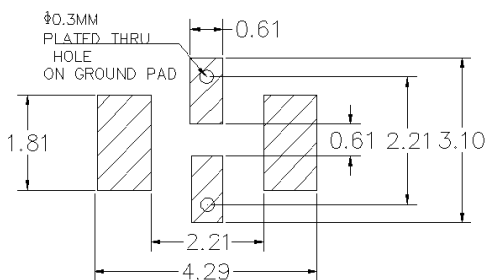
## Outline Drawing



## 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

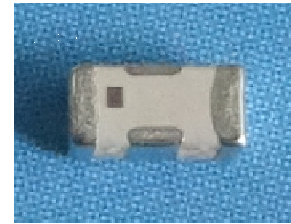
TOLERANCE TO BE WITHIN ±0.05mm

## 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

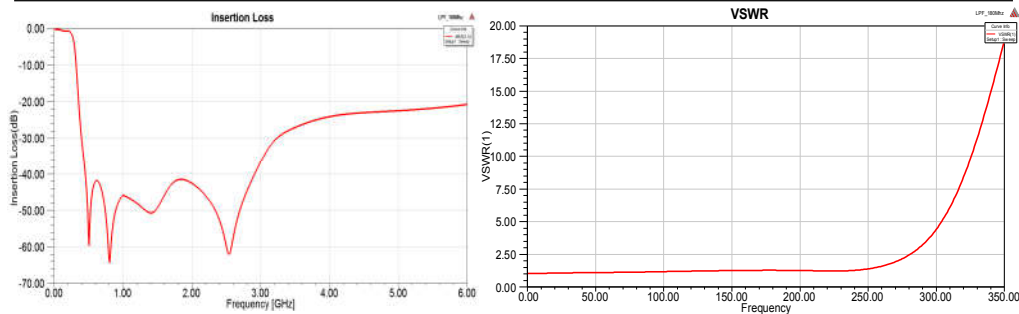
## Electrical Specifications<sup>(1)</sup> at 25°C

Parameter	Frequency (MHz)	MIN	Typ.	MAX	Unit	
Pass Band	Insertion Loss	DC-180	-	0.8	1.2	dB
	Freq. Cut-off	285	-	3.0	-	dB
	VSWR	DC-180	-	1.2	1.5	:1
Stop Band	Rejection Loss	400	20	30	-	dB
		460-2910	30	40	-	dB
		2910-6000	20	30	-	dB

(1) Tested on Demo Board.

## Typical Performance at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	0.36	1.11
100	0.45	1.19
180	0.83	1.29
235	1.01	1.26
285	3.0	2.85
300	5.04	4.42
350	17.5	18.93
370	23	27.46
525	52.5	79.92
810	64.3	105
1700	43	114
2540	62	21.06
4500	23	38.7
6000	20.7	55.16
8500	27	21.96



## 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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