

Band Pass Filter

WGLB-03700

50Ω 3000 to 4600 MHz

Ver. B
2021.06.01

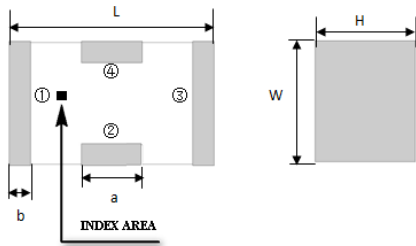
Maximum Rating

Operating Temperature	-55°C~+100°C
Storage Temperature	-55°C~+100°C
RF Input Power	3W max at 25°C

Pin Connections

RF Input	1
RF Output	3
Ground	2,4

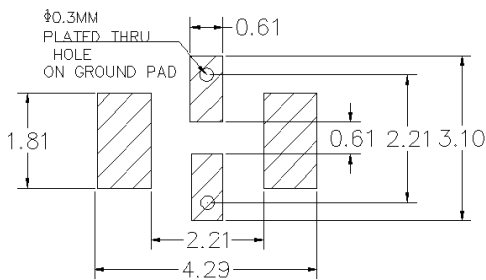
Outline Drawing



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

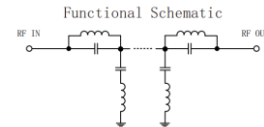
- High Performance
- Small Size
- Wide Band
- Ultra Low I.L.
- Temperature Stable
- LTCC Structure

Application

- Harmonic Rejection
- Transmitters/Receivers
- Lab Use



RoHS Compliant



Functional Schematic

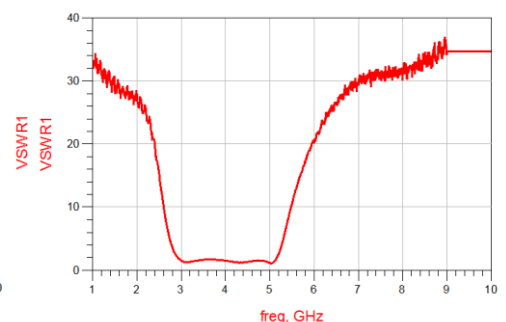
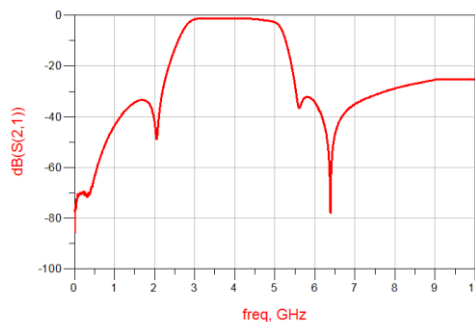
Electrical Specifications⁽¹⁾ at 25°C

Parameter		Frequency (MHz)	MIN	Typ.	MAX	Unit
Pass Band	Center Frequency	-	-	3700	-	MHz
	Insertion Loss	3000-4600	-	2.5	3.5	dB
	VSWR	3000-4600	-	1.5	2.5	:1
Stop Band	Rejection Loss	DC-1000	25	35	-	dB
		2100	20	30	-	dB
		5600-8000	12	24	-	dB

(1) Test on our Demo Board.

Typical Performance at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
200	70.07	60.17
500	63.01	42.50
1000	43.47	32.25
1500	34.39	28.47
2100	40.62	26.53
2500	13.27	15.46
3000	1.56	1.52
3800	1.30	1.64
4600	1.67	1.42
5400	18.45	7.8
6000	34.46	20.26
6700	39.41	28.49
7300	32.69	31.45
7600	30.82	30.08
8000	28.79	31.94



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.



Well Genius Technology (Shanghai) LTD.