

Band Pass Filter

WGLB-03700

50Ω 3000 to 4600 MHz

Ver. A
2020.10.31

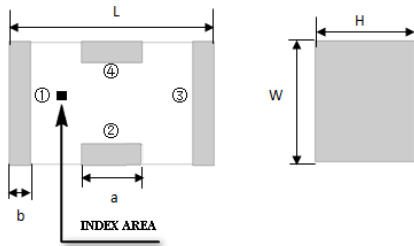
Maximum Rating

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

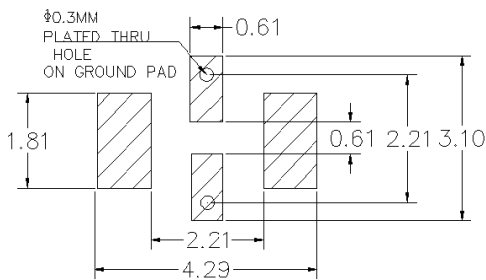
Outline Drawing



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

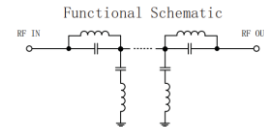
- High Performance
- Small Size
- Wide Band
- Ultra Low I.L.
- Temperature Stable
- LTCC Structure

Application

- Harmonic Rejection
- Transmitters/Receivers
- Lab Use



RoHS Compliant



Functional Schematic

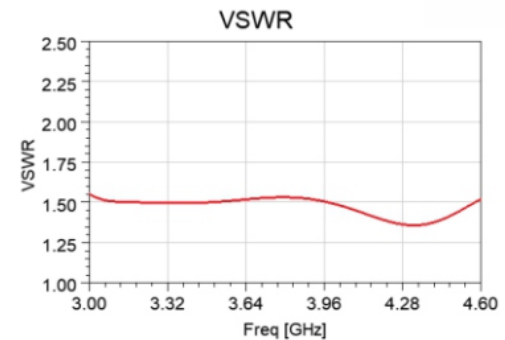
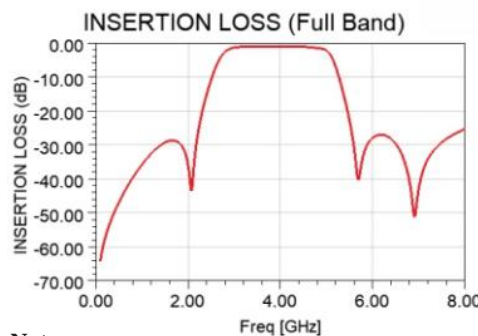
Electrical Specifications⁽¹⁾ at 25°C

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	21	28	-	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	57.54	459.89
500	46.9	237.27
1000	35.8	132.25
1500	29.3	78.6
2100	40.8	37.78
2500	10.8	10.98
3000	1.39	1.56
3800	0.98	1.53
4600	1.26	1.52
5400	16.88	14.7
6000	27.94	14.8
6700	35.38	10.66
7300	32.0	22.4
7600	28.22	30.26
8000	25.34	39.01



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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