

# Band Pass Filter

## WGLB-03600-2012

50Ω      3400 to 3800 MHz

Ver. B  
2020.12.19

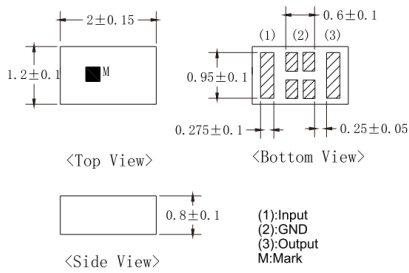
### Maximum Rating

Operating Temperature	-40°C~+85°C
Storage Temperature	-40°C~+85°C
RF Input Power	2W max at 25°C

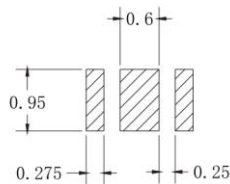
### Pin Connections

RF Input	1
RF Output	3
Ground	2

### Outline Drawing

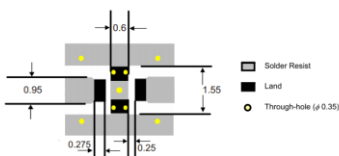


### PCB Land Pattern(mm)



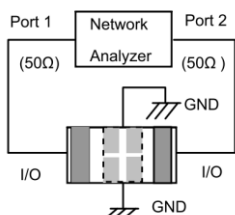
Tolerance to be within ±0.002  
Solder Paste: SAC 305 Type is Recommended

### Demo Board Suggested PCB Layout



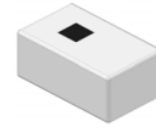
Tolerance to be within ±0.002 Line width should be designed to match 50 characteristic impedance, depending on PCB material and thickness

### Measuring Diagram

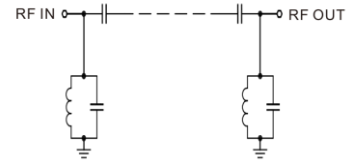


### Features

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



RoHS Compliant



Functional Schematic

### Application

- Harmonic Rejection
- Transmitters/Receivers
- Lab Use

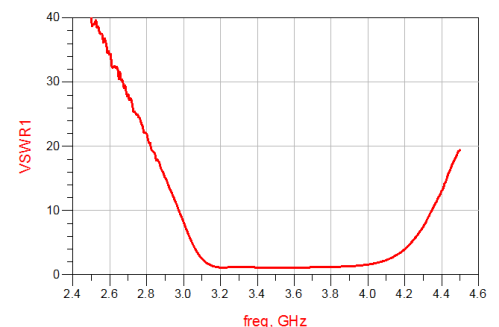
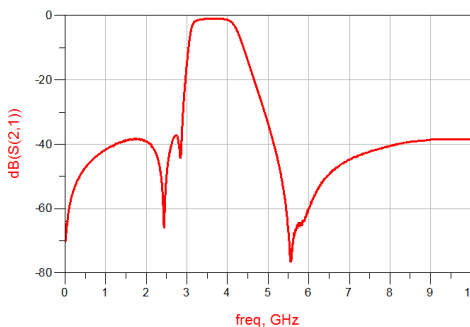
### Electrical Specifications<sup>(1)</sup> at 25°C

Parameter		Frequency (MHz)	MIN	Typ.	MAX	Unit
Pass Band	Center Frequency	-	-	3600	-	MHz
	Insertion Loss	3400-3800	-	0.9	1.3	dB
	VSWR	3400-3800	-	1.5	2.0	:1
Stop Band	Rejection Loss	500-1785	40	40	-	dB
		2300-2700	25	40	-	dB
		4800-4900	25	35	-	dB
		5150-10800	35	40	-	dB

(1) Test on our Demo Board.

### Typical Performance at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
500	47.25	171
1000	41.69	114
2170	41.3	58.78
2300	45.41	48.44
2700	37.69	28.12
3400	1.2	1.13
3600	1.06	1.1
3800	1.09	1.2
4380	9.62	11.9
4800	25.67	31.9
5150	40.62	35.2
6250	53.29	36.1
6800	46.28	37.6
7200	43.93	38.2
10000	38.48	35.6



### 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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