

# Low Pass Filter

# WGLL-07200-A

50Ω DC to 7200 MHz

Ver. A  
2022.01.17

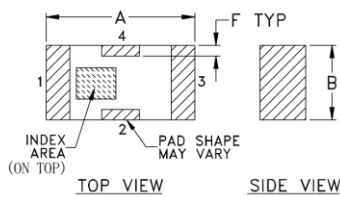
## Maximum Rating

Operating Temperature	-55°C~+100°C
Storage Temperature	-55°C~+100°C
RF Input Power	8W max at 25°C

## Pin Connections

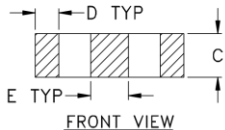
RF Input	1
RF Output	3
Ground	2,4

## Outline Drawing



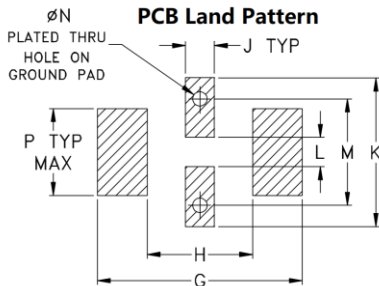
TOP VIEW

SIDE VIEW



FRONT VIEW

## PCB Land Pattern



Suggested Layout

Tolerance to be within  $\pm 0.002$

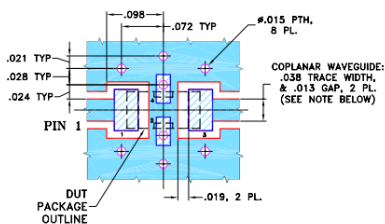
## Outline Dimensions (tolerance)

A	B	C	D	E	F	G
3.20	1.60	0.95	0.51	0.81	0.23	4.29
$\pm 0.2$	$\pm 0.2$	$\pm 0.2$	$\pm 0.1$	$\pm 0.1$	$\pm 0.1$	$\pm 0.1$

H	J	K	L	M	N	P	wt
2.21	0.61	3.10	0.61	2.21	0.30	1.8	.020

## Demo Board MCL P/N: T-39 Suggested PCB Layout (PL-137)



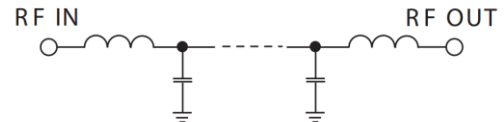
- NOTES:
- COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350B WITH THICKNESS  $.020" \pm .0015"$ . COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH & GAP MAY NEED TO BE MODIFIED.
  - BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
  - DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

## Features

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



RoHS Compliant



## Application

- Harmonic Rejection
- Transmitters/Receivers
- Lab Use

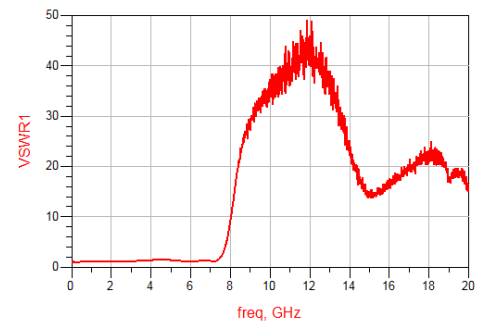
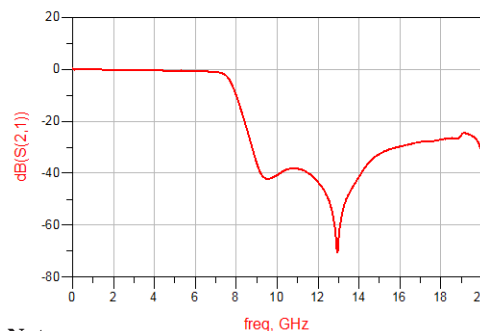
## Electrical Specifications<sup>(1)</sup> at 25°C

Parameter	Frequency (MHz)	MIN	Typ.	MAX	Unit	
Pass Band	Insertion Loss	DC-7200	-	1.3	2.0	dB
	Freq. Cut-off	7560	-	3.0	-	dB
	VSWR	DC-7200	-	1.6	2.0	:1
Stop Band	Rejection Loss	8850	20	30	-	dB
		9500-12300	20	35	-	dB
		12300-18000	15	20	-	dB

(1) Tested on Demo Board.

## Typical Performance at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
500	0.072	1.023
2000	0.198	1.082
4000	0.464	1.390
6000	0.626	1.043
7200	1.332	1.143
7500	2.468	1.94
8000	10.24	9.474
8500	22.69	22.58
9500	42.16	30.63
10500	40.35	39.98
11000	38.30	36.03
12300	46.71	43.91
14000	41.38	22.20
15000	32.47	14.28
18000	27.04	20.83



## 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.