

# Low Pass Filter

# WGLL-06000

50Ω DC to 6000 MHz

Ver. A  
2022.01.17

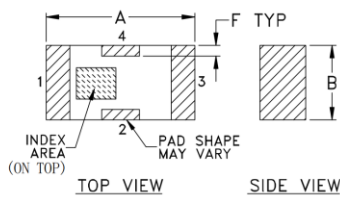
## Maximum Rating

Operating Temperature	-55°C~+100°C
Storage Temperature	-55°C~+100°C
RF Input Power	9W max at 25°C

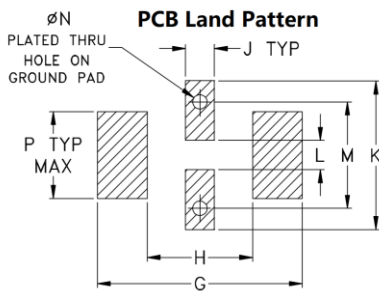
## Pin Connections

RF Input	1
RF Output	3
Ground	2,4

## Outline Drawing



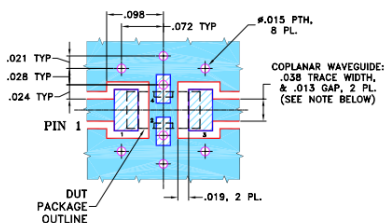
## PCB Land Pattern



## Outline Dimensions (mm) (tolerance)

A	B	C	D	E	F	G	
3.20	1.60	0.95	0.51	0.81	0.23	4.29	
±0.2	±0.2	±0.2	±0.1	±0.1	±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)



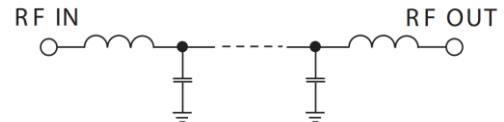
- NOTES:
- COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350B WITH THICKNESS .020" ± .0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH & GAP MAY NEED TO BE MODIFIED.
  - BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
    - Denotes PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK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

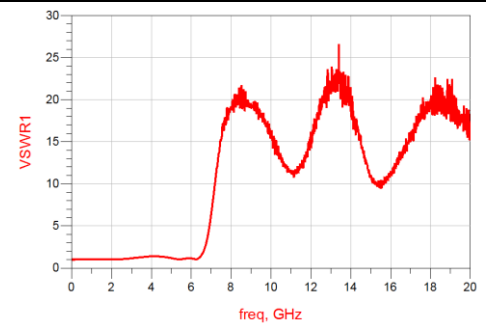
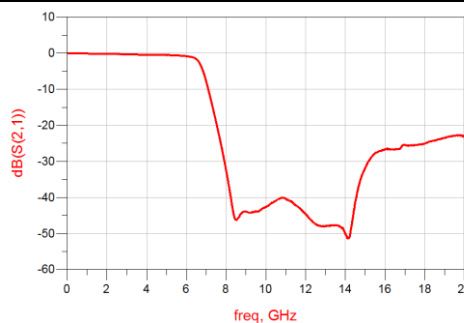
## Electrical Specifications<sup>(1)</sup> at 25°C

Parameter	Frequency (MHz)	MIN	Typ.	MAX	Unit	
Pass Band	Insertion Loss	DC-6000	-	0.9	1.2	dB
	Freq. Cut-off	6680	-	3.0	-	dB
	VSWR	DC-6000	-	1.5	2.0	:1
Stop Band	Rejection Loss	8500	20	30	-	dB
		8700-14000	20	35	-	dB
		20000	15	20	-	dB

(1) Tested on Demo Board.

## Typical Performance at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
500	0.069	1.023
2000	0.190	1.026
4000	0.477	1.384
5500	0.639	1.042
6000	0.874	1.145
6680	2.978	2.438
7500	19.263	15.22
8000	32.64	18.92
8500	46.27	21.47
8700	44.84	19.55
9500	43.84	17.89
10000	42.75	15.78
11000	40.44	11.21
14000	49.99	18.58
15000	31.76	10.90



## 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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