

# Low Pass Filter

# WGLL-01525

50Ω DC to 1525 MHz

Ver. A  
2022.02.22

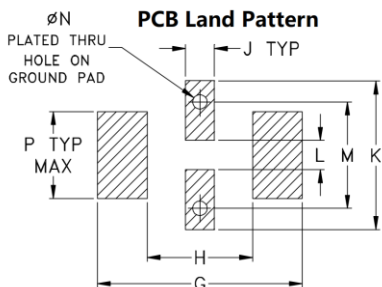
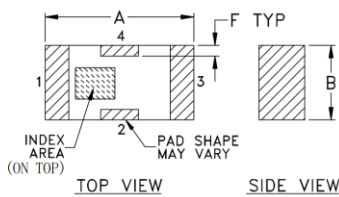
## Maximum Rating

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

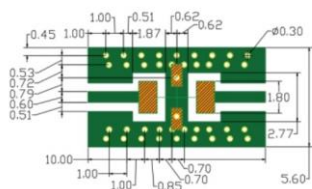


Suggested Layout  
Tolerance to be within ±.002

## Outline Dimensions (Tolerance) mm

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: 1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350 WITH THICKNESS .508" ± .0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH & GAP MAY NEED TO BE MODIFIED.

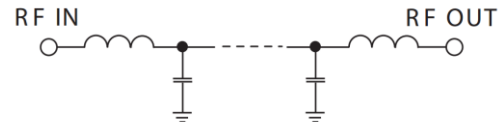
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE. DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER) DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

## Features

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



RoHS Compliant



## Application

- Harmonic Rejection
- Transmitters/Receivers
- Lab Use

## Functional Schematic

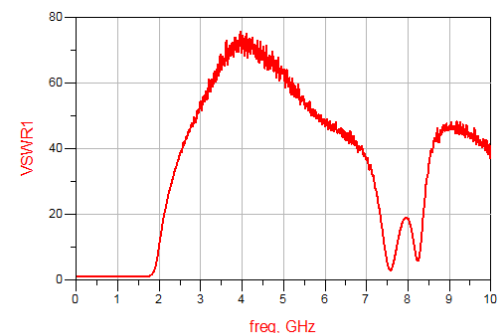
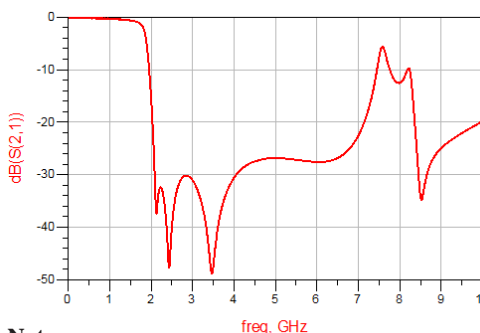
## Electrical Specifications<sup>(1)</sup> at 25°C

Parameter	Frequency (MHz)	MIN	Typ.	MAX	Unit	
Pass Band	Insertion Loss	DC-1525	-	0.8	1.1	dB
	Freq. Cut-off	1790	-	3.0	-	dB
	VSWR	DC-1525	-	1.2	1.5	:1
Stop Band	Rejection Loss	2150	25	30	-	dB
		2380-5800	30	35	-	dB
		6800	20	25	-	dB

(1) Tested on Demo Board.

## Typical Performance at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
100	0.07	1.03
1000	0.36	1.18
1500	0.68	1.08
1700	1.14	1.12
1844	3.02	2.07
2141	37.28	19.59
2245	32.52	24.94
2461	48.77	33.65
2867	31.75	45.06
3472	50.29	62.72
4507	30.05	71.50
5504	31.16	61.05
6509	31.93	50.33
7000	25.36	40.04
7500	7.15	4.18



## 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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