

# High Pass Filter

WGLH-00880

50Ω 950 to 3200 MHz

Ver. A

2022.01.27

## Maximum Rating

Operating Temperature -55°C~+100°C

Storage Temperature -55°C~+100°C

RF Input Power 7W max at 25°C

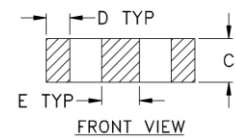
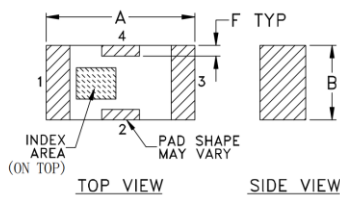
## Pin Connections

RF Input 1

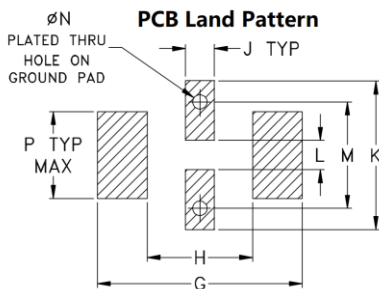
RF Output 3

Ground 2,4

## Outline Drawing



## PCB Land Pattern



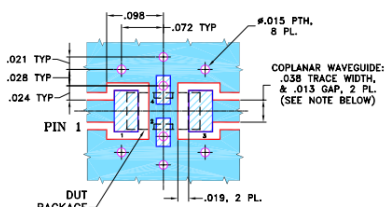
Suggested Layout

Tolerance to be within  $\pm .002$

## 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	
$\pm 0.2$	$\pm 0.2$	$\pm 0.2$	$\pm 0.1$	$\pm 0.1$	$\pm 0.1$		
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)



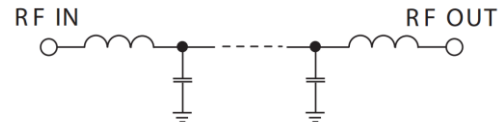
- NOTES:
- COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350B WITH THICKNESS  $.020 \pm .0015"$ . COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH & GAP MAY NEED TO BE MODIFIED.
  - BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
    - DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER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

## Functional Schematic

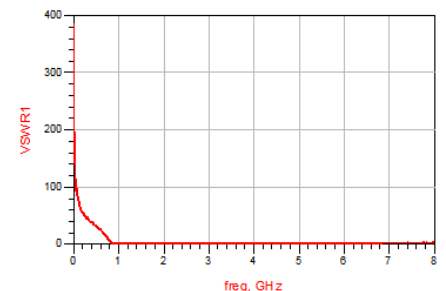
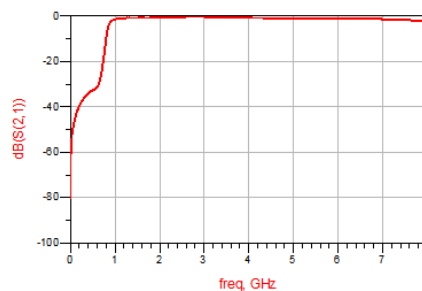
## Electrical Specifications<sup>(1)</sup> at 25°C

Parameter	Frequency (MHz)	MIN	Typ.	MAX	Unit	
Pass Band	Insertion Loss	950-3200	-	1.3	2.0	dB
	Freq. Cut-off	880	-	3.0	-	dB
	VSWR	970-2400	-	1.5	2.0	:1
Stop Band	Rejection Loss	500	30	35	-	dB
		640	20	30	-	dB

(1) Tested on Demo Board.

## Typical Performance at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.0	85.14	385.06
100	45.31	121.89
500	32.63	38.36
640	29.65	23.69
750	17.56	11.67
810	8.64	4.94
880	3.03	1.66
950	1.77	1.21
970	1.62	1.19
1060	1.17	1.13
2400	0.41	1.24
2500	0.37	1.17
3200	0.39	1.36
5000	0.88	2.01
6000	0.88	2.01



## Notes

- The specifications are tested at 25°C $\pm$ 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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