

High Pass Filter

WGLH-01500

50Ω 1600 to 5500 MHz

Ver. A
2022.03.07

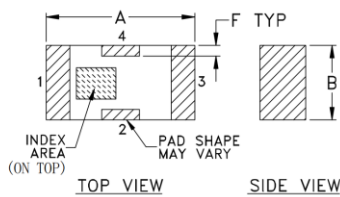
Maximum Rating

Operating Temperature	-55°C~+100°C
Storage Temperature	-55°C~+100°C
RF Input Power	7W max at 25°C

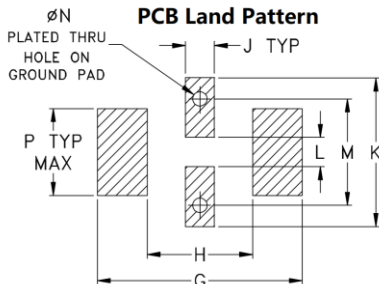
Pin Connections

RF Input	1
RF Output	3
Ground	2,4

Outline Drawing



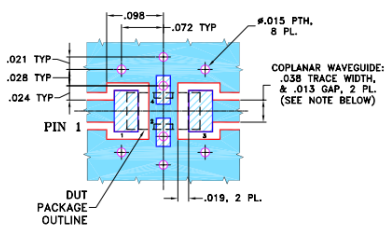
PCB Land Pattern



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)



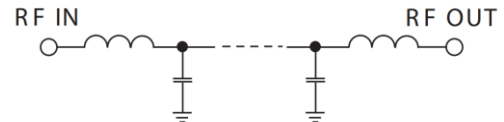
- NOTES:
- COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350B WITH THICKNESS .020" ± .0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH & GAP MAY NEED TO BE MODIFIED.
 - BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
 - DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER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

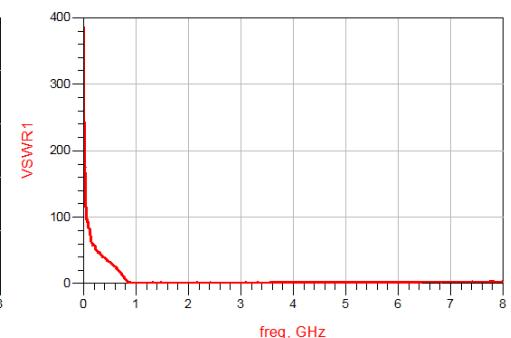
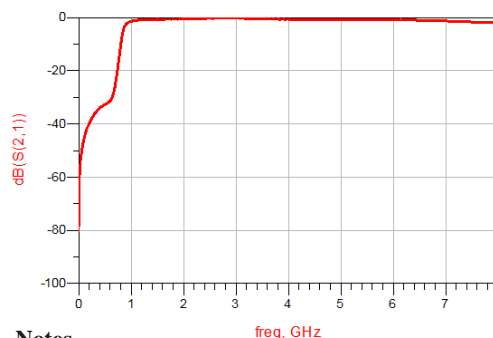
Electrical Specifications⁽¹⁾ at 25°C

Parameter	Frequency (MHz)	MIN	Typ.	MAX	Unit	
Pass Band	Insertion Loss	1600-5500	-	1.3	2.0	dB
	Freq. Cut-off	1550	-	3.0	-	dB
	VSWR	1620-5500	-	1.5	2.0	:1
Stop Band	Rejection Loss	1060	40	47	-	dB
		1250	20	30	-	dB

(1) Tested on Demo Board.

Typical Performance at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	85.04	3056.88
100.0	59.12	178.78
1060	47.45	32.79
1250	31.82	20.63
1400	12..19	8.19
1550	2.52	1.62
1600	1.78	1.22
1620	1.60	1.14
1850	0.91	1.16
2000	0.74	1.19
3450	0.38	1.19
4400	0.55	1.55
5500	0.57	1.63
7700	1.07	2.24
9000	1.85	2.87



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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