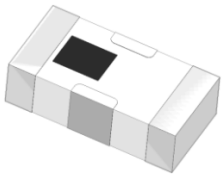
High Pass Filter

WGLH-02100

50Ω 2200 to 6000 MHz

Ver. A

2022.01.17



RoHS Compliant

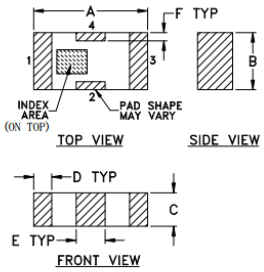
Maximum Rating

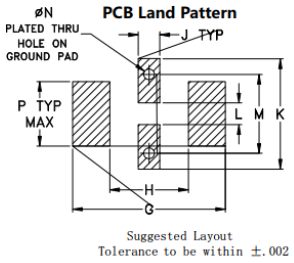
OperatingTemperature	-55℃~+100℃
StorageTemperature	-55℃~+100℃
RF Input Power	7W max at 25℃

Pin Connections

RF Input	1
RF Output	3
Ground	2,4

Outline Drawing





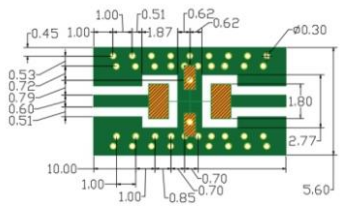
Suggested Layout
Tolerance to be within ±.002

Outline Dimensions(mm Tolerance)

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

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

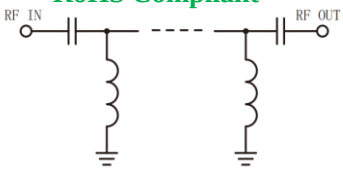
Features

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

Application

- Sub-Harmonic Rejection
- Transmitters/Receivers
- Base Station of Mobile Communication
- Lab Use

Functional Schematic



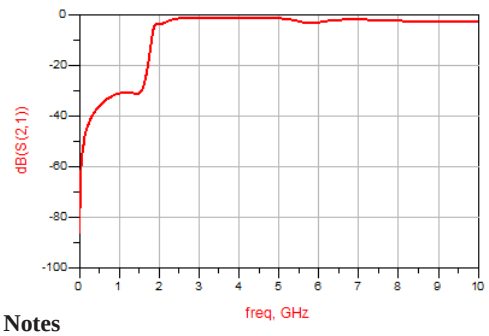
Electrical Specifications[(1)] at 25℃

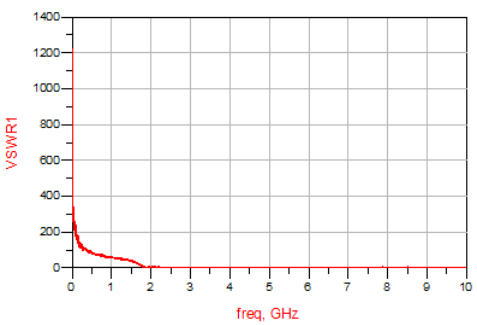
Parameter		Frequency (MHz)	MIN	Typ.	MAX	Unit
Pass Band	Insertion Loss Freq. Cut-off VSWR	2200-6000 2100 2400-5200	- - -	1.3 3.0 1.5	2.5 - 2.0	dB dB :1
Stop Band	Rejection Loss	1050 1530	27 20		-	dB

(1) Tested on Demo Board.

Typical Performance at 25℃

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
100	49.62	179.83
1060	29.2	54.45
1530	28.37	33.51
1700	16.17	13.08
1900	4.26	3.66
2000	3.74	3.82
2100	2.73	2.92
2200	1.89	2.14
2400	1.10	1.39
2500	0.94	1.24
5000	1.24	1.68
5200	1.56	1.83
6000	2.45	1.68
7000	1.17	1.17
9000	2.20	2.48





Notes

a. The specifications are tested at 25℃±5℃, relative humidity 55~75%.
b. Other quality and characteristic not specify in this datasheet.
Please contact us for detail requirements.

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