Low Pass Filter

WGLL-02000

50Ω DC to 2000 MHz

Ver. B

2024.03.12

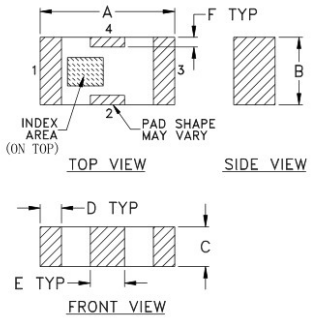
Maximum Rating

OperatingTemperature	-55℃~+100℃
StorageTemperature	-55℃~+100℃
RF Input Power	10W max at 25℃

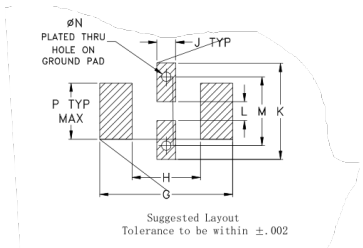
Pin Connections

RF Input	1
RF Output	3
Ground	2,4

Outline Drawing



PCB Land Pattern

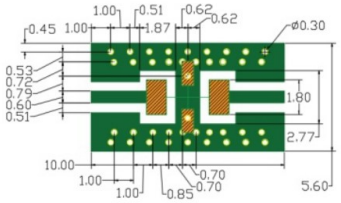


Outline Dimension (mm)

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

Suggest PCB Layout



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)

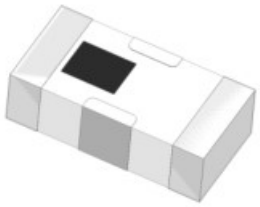
DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Features

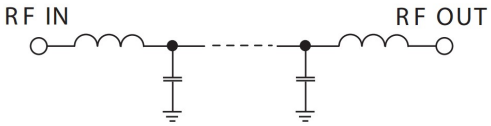
- High Performance
- Small Size
- Wide Band
- Ultra Low I.L.
- Temperature Stable
- LTCC Structure

Application

- Harmonic Rejection
- Transmitters/Receivers
- Lab Use



RoHS Compliant



Functional Schematic

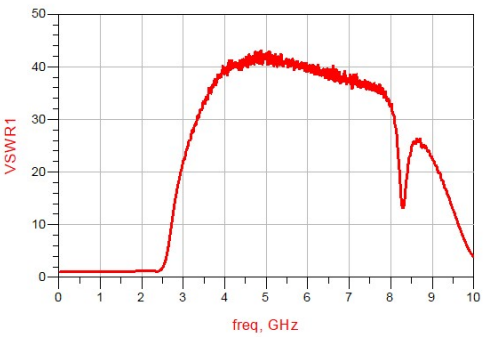
Electrical Specifications(1) at 25℃

Parameter		Frequency (MHz)	MIN	Typ.	MAX	Unit
Pass Band	Insertion Loss	DC-2000	-	1.0	1.3	dB
	Freq. Cut-off	2513	-	3.0	-	dB
	VSWR	DC-2000	-	1.3	1.5	:1
Stop Band	Rejection Loss	3000	20	30	-	dB
		3100-3500	20	30	-	dB
		4600	15	20	-	dB

(1) Test on our Demo Board.

Typical Performance at 25℃

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	0.07	1.01
500	0.18	1.08
1000	0.29	1.15
1500	0.43	1.15
2000	0.71	1.22
2250	0.76	1.27
2575	5.13	3.33
2850	28.96	16.82
3800	35.14	37.15
4250	36.52	40.41
5000	44.96	42.49
6500	35.51	37.57
7200	30.64	36.44
8000	31.71	32.99
9000	17.24	22.54



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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