High Pass Filter

WGLH-04600

50Ω 5000 to 9000 MHz

Ver. A

2021.11.28

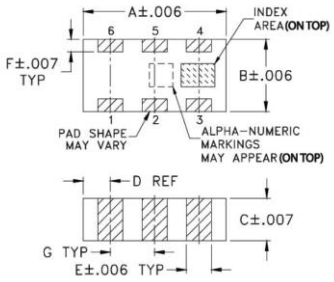
Maximum Rating

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

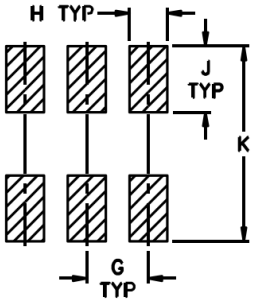
Pin Connections

RF Input	1
RF Output	3
Ground	2,4,5,6

Outline Drawing



PCB Land Pattern



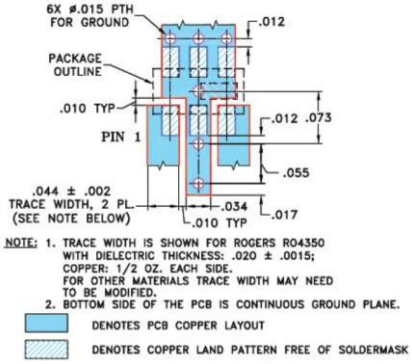
Suggested Layout,
Tolerance to be within±.002

Outline Dimensions (inch/mm)

A	B	C	D	E	F
.126	.063	.035	.024	.022	.011
3.20	1.60	0.89	0.61	0.56	0.28

G	H	J	K	wt
.039	.024	.042	.123	grams
0.99	0.61	1.07	3.12	.020

Demo Board MCL P/N:TB-285
Suggested PCB Layout (PL-158)



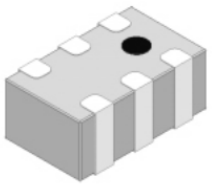
NOTE: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350 WITH DIELECTRIC THICKNESS: .020 ± .0015; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

DENOTES PCB COPPER LAYOUT

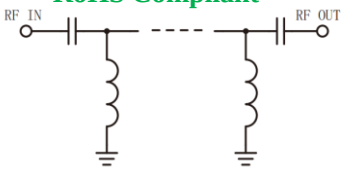
DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK

Features

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



RoHS Compliant



Functional Schematic

Application

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

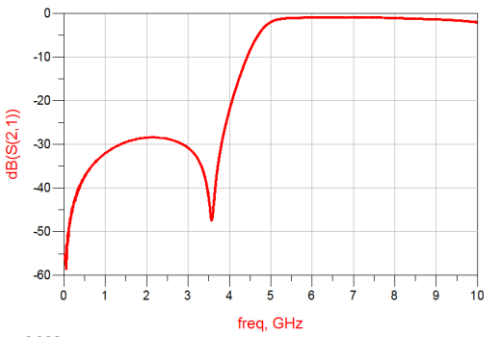
Electrical Specifications[(1)] at 25℃

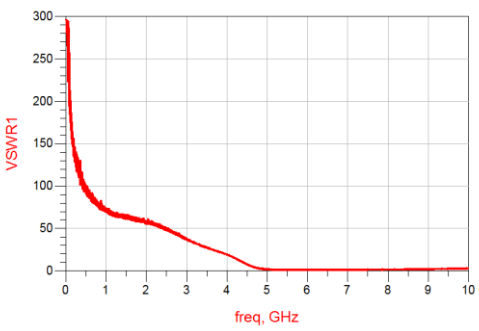
Parameter		Frequency (MHz)	MIN	Typ.	MAX	Unit
Pass Band	Insertion Loss	5000-9000	-	1.7	2.0	dB
	Freq. Cut-off	4600	-	3.0	-	dB
	VSWR	5000-9000	-	1.4	2.0	:1
Stop Band	Rejection Loss	3700	25	-	-	dB
		3800	20	-	-	dB

(1) Tested on Demo Board.

Typical Performance at 25℃

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	54.90	294.08
1500	29.43	65.07
2470	28.66	49.55
3700	30.38	24.67
3800	30.29	22.41
4150	17.33	16.26
4380	11.14	10.59
4500	8.41	7.69
4600	6.50	5.70
4720	4.64	3.86
5000	2.00	1.79
5200	1.36	1.29
6800	1.21	1.37
8000	1.09	1.64
9000	1.41	2.13





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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