

High Pass Filter

WGLH-05050

50Ω 5500 to 10000 MHz

Ver. A
2023.06.20

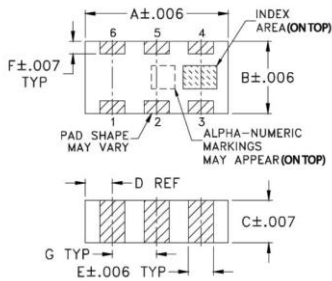
Maximum Rating

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

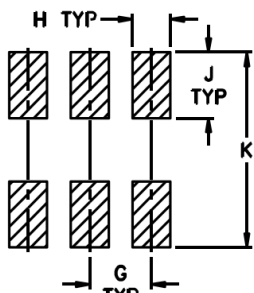
Pin Connections

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

Outline Drawing



PCB Land Pattern

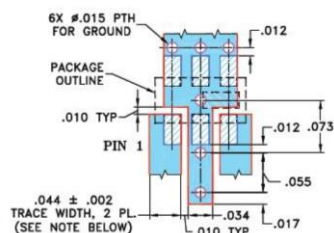


Suggested Layout,
Tolerance to be within ±.002

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)

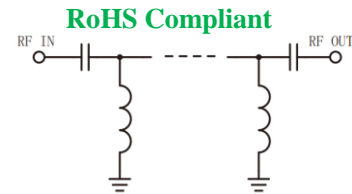
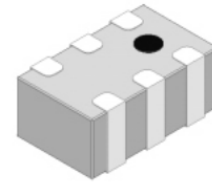


NOTE: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350 WITH DIELECTRIC THICKNESS: .020 ± .0015; COPPER: 1/2 OZ, EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

- 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



Application

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

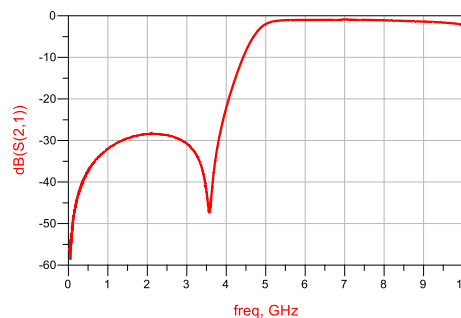
Electrical Specifications⁽¹⁾ at 25°C

Parameter	Frequency (MHz)	MIN	Typ.	MAX	Unit	
Pass Band	Insertion Loss	5500-10000	-	1.0	1.5	dB
	Freq. Cut-off	5050	-	3.0	-	dB
	VSWR	5500-10000	-	1.5	-	:1
Stop Band	Rejection Loss	3600	-	30	-	dB
		4200	-	20	-	dB

(1) Tested on Demo Board.

Typical Performance at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	65.43	732.18
900	38.60	60.37
1760	35.58	57.93
2850	40.06	49.49
3770	34.69	32.79
4520	12.83	6.16
5380	1.47	1.09
5970	1.24	1.30
6550	1.33	1.64
7500	1.09	1.52
8080	0.93	1.34
5810	0.87	1.07
9030	0.97	1.28
9400	1.14	1.79
10000	1.83	2.84



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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