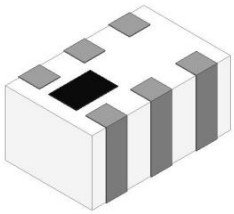
High Pass Filter

WGLH-03100

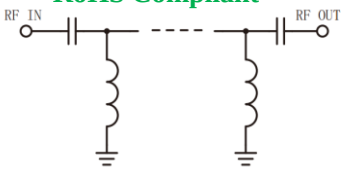
50Ω 3400 to 9900 MHz

Ver. A

2022.01.27



RoHS Compliant



Maximum Rating

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

Pin Connections

RF IN	1
RF OUT	3
GROUND	2, 4,5,6

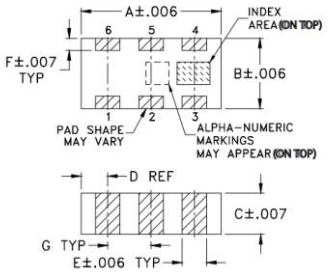
Features

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

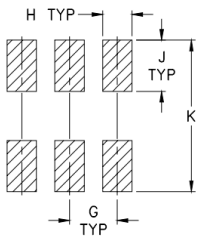
Application

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

Outline Drawing



PCB Land Pattern ted Layout,



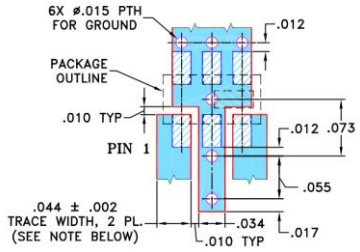
Sugges
Tolerance to be within ±002

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

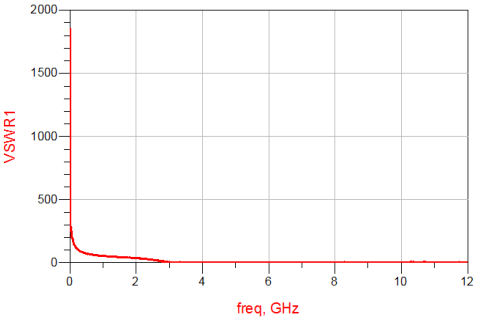
Electrical Specifications(1) at 25℃

Parameter		Frequency (MHz)	MIN	Typ.	MAX	Unit
Pass Band	Insertion Loss	3400-11000	-	1.3	2.0	dB
	Freq. Cut-off	3020	-	3.0	-	dB
	VSWR	3100-9000	-	1.6	2.0	:1
Stop Band	Rejection Loss	2400	30	33	-	dB
		2350	20	38	-	dB

(1) Tested on Demo Board.

Typical Performance at 25℃

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	60.36	228.3
800	39.11	57.97
1810	35.47	39.13
2350	38.81	26.36
2400	33.80	24.54
2700	15.08	13.52
2920	5.46	4.26
3100	1.89	1.50
3400	1.19	1.38
3500	1.14	1.45
5000	0.65	1.13
7000	0.62	1.12
9000	0.82	1.53
9500	0.99	1.76
9900	1.15	1.96



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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