

Low Pass Filter

WGLL-03800

50Ω

DC to 3800 MHz

Ver. A

2025.08.25

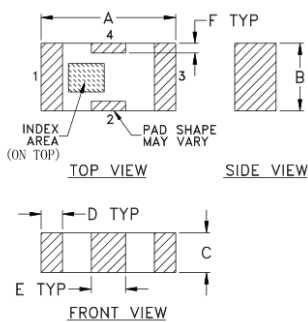
Maximum Rating

Operating Temperature	-55°C~+125°C
Storage Temperature	-55°C~+125°C
RF Input Power	5W max at 25°C

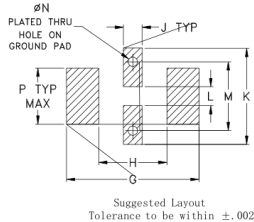
Pin Connections

RF Input	1
RF Output	3
Ground	2,4

Outline Drawing



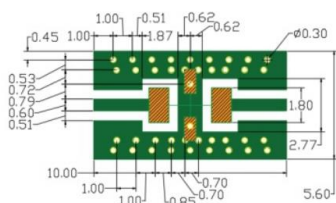
PCB Land Pattern



Outline Dimension (mm)

A	B	C	D	E	F	G
3.20	1.60	0.95	0.51	0.81	0.23	4.29
±0.2	±0.2	±0.2	±0.1	±0.1	±0.1	
H	J	K	L	M	N	P
2.21	0.61	3.10	0.61	2.21	0.30	1.8
						wt
						.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)

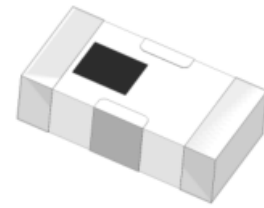
DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Features

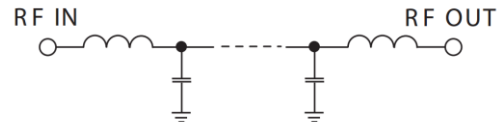
- High Performance
- Small Size
- Wide Band
- Ultra Low I.L.
- Temperature Stable
- LTCC Structure

Application

- Harmonic Rejection
- Transmitters/Receivers
- Lab Use



RoHS Compliant



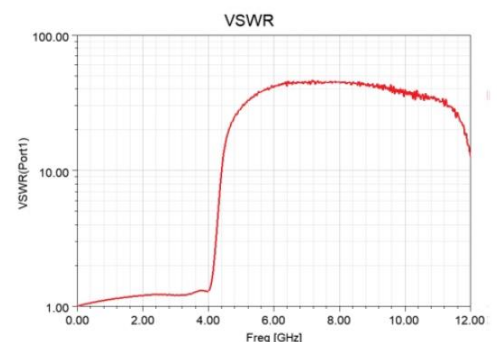
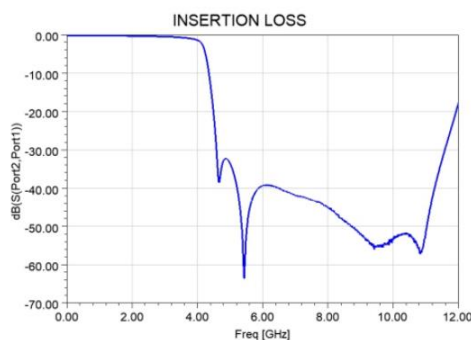
Functional Schematic

Electrical Specifications⁽¹⁾ at 25°C

Parameter		Frequency (MHz)	MIN	Typ.	MAX	Unit
Pass Band	Insertion Loss	DC-3800	-	-	1.38	dB
	Freq. Cut-off	4140	-	3.0	-	dB
	VSWR	DC-3800	-	1.67	-	:1
Stop Band	Rejection Loss	4600	30	-	-	dB
		4700-6000	30	-	-	dB
		8000	20	-	-	dB

(1) Tested on Demo Board.

Typical Performance at 25°C



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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