

Low Pass Filter

WGLL-01400-2012

50Ω

DC to 1400 MHz

Ver. A

2026.05.19

Maximum Rating

Operating Temperature -55°C~+125°C

Storage Temperature -55°C~+125°C

RF Input Power 5.5W max at 25°C

Pin Connections

RF Input 8

RF Output 4

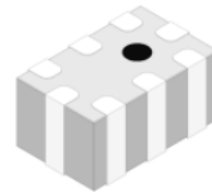
Ground 1,2,3,5,6,7

Features

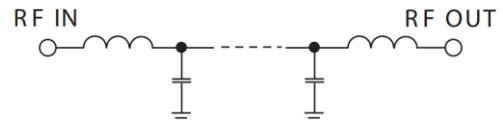
- High Performance
- Small Size
- Wide Band
- Ultra Low I.L.
- Temperature Stable
- LTCC Structure

Application

- Harmonic Rejection
- Transmitters/Receivers
- Lab Use

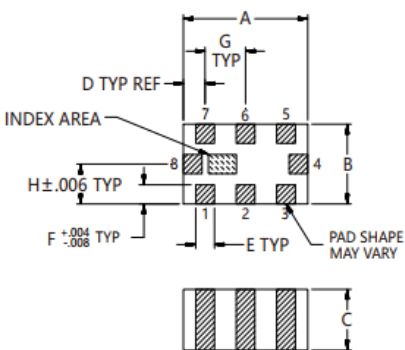


RoHS Compliant



Functional Schematic

Outline Drawing

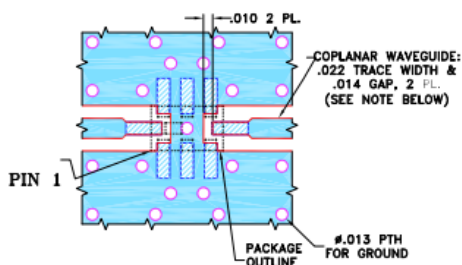


Outline Dimensions (inches)

A	B	C	D	E	F	G	Wt.
.079	.049	.037	.014	.012	.012	.026	grams
2.00	1.25	0.95	0.35	0.30	0.30	0.65	.008

Note: Please refer to case style drawing for details

Demo Board MCL P/N: CG-2012 Suggested PCB Layout



NOTES:

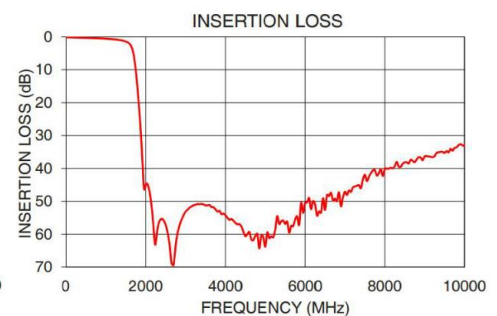
1. COPLANAR WAVEGUIDE IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .010" ± .001". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH AND GAP MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER).
- DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK.

Electrical Specifications⁽¹⁾ at 25°C

Parameter		Frequency (MHz)	MIN	Typ.	MAX	Unit
Pass Band	Insertion Loss	DC-1400	--	1.0	1.9	dB
	Freq. Cut-off	1650	--	3.0	--	dB
	Return Loss	DC-1400	--	22	--	dB
Stop Band	Rejection Loss	2015-2300	20	45	--	dB
		2300-6600	40	50	--	
		6600-10000	--	35	--	

(1) Test on our Demo Board.



Notes

- a. The specifications are tested at 25°C±5°C, relative humidity 55~75%.
 - b. Other quality and characteristic not specify in this datasheet.
- Please contact us for detail requirements.



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