

Low Pass Filter

WGLL-03000-2012

50Ω DC to 3000 MHz

Ver. A
2025.08.25

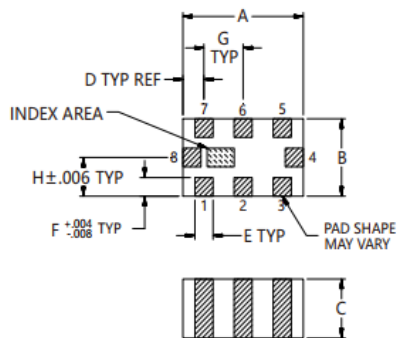
Maximum Rating

Operating Temperature	-55°C~+125°C
Storage Temperature	-55°C~+125°C
RF Input Power	4.5W max at 25°C

Pin Connections

RF Input	8
RF Output	4
Ground	1,2,3,5,6,7

Outline Drawing

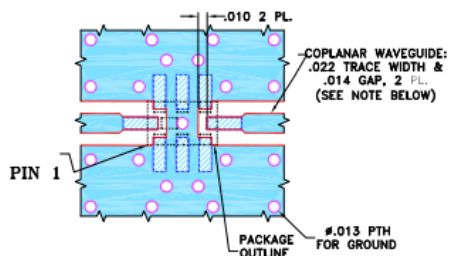


Outline Dimensions (inch)

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:

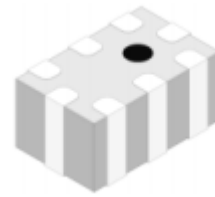
1. COPLANAR WAVEGUIDE IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .010" ± .001", COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH AND GAP MAY NEED TO BE MODIFIED.
 2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER).
- DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK.

Features

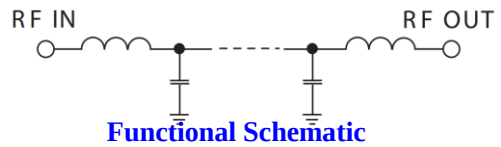
- High Performance
- Small Size
- Wide Band
- Ultra Low I.L.
- Temperature Stable
- LTCC Structure

Application

- Harmonic Rejection
- Transmitters/Receivers
- Lab Use



RoHS Compliant

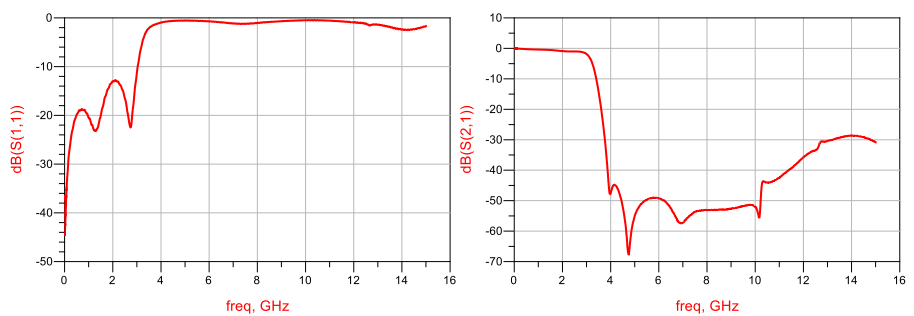


Electrical Specifications⁽¹⁾ at 25°C

Parameter		Frequency (MHz)	MIN	Typ.	MAX	Unit
Pass Band	Insertion Loss	DC-3000	-	1.1	2.2	dB
	Freq. Cut-off	3460	-	3.0	-	dB
	Return Loss	DC-3000	-	18	-	dB
Stop Band	Rejection Loss	4550-4800	20	50	-	dB
		4800-7000	38	50	-	dB
		7000-11000	-	30	-	dB
		11000-15000	-	25	-	dB

(1) Tested on Demo Board.

Typical Performance at 25°C



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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