

Low Pass Filter

WGLL-00900-2012

50Ω

DC to 850 MHz

Ver. A

2025.06.06

Maximum Rating

Operating Temperature -55°C~+100°C

Storage Temperature -55°C~+100°C

RF Input Power 4.5W max at 25°C

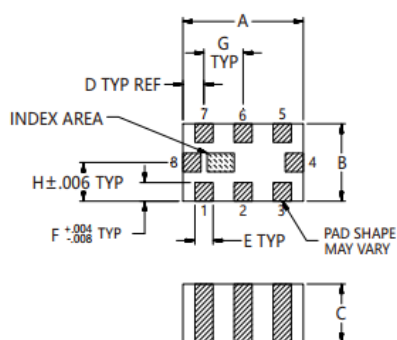
Pin Connections

RF Input 8

RF Output 4

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

Outline Drawing

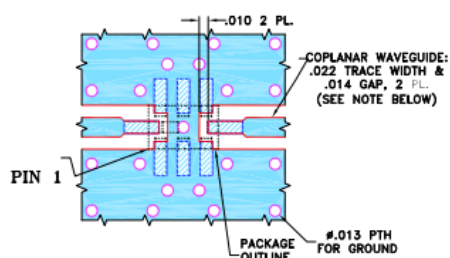


Outline Dimensions (inch)

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:

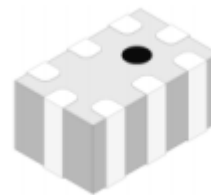
1. COPLANAR WAVEGUIDE IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .010" ± .001". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH AND GAP MAY NEED TO BE MODIFIED.
 2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER).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

Features

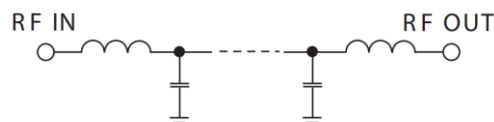
- High Performance
- Extremely small Size
- Good rejection
- Ultra Low I.L.
- Temperature Stable
- LTCC construction, and has good moisture resistance, corrosion resistance, high reliability

Application

- Test and measurements
- Telecommunications and broadband wireless system



RoHS Compliant



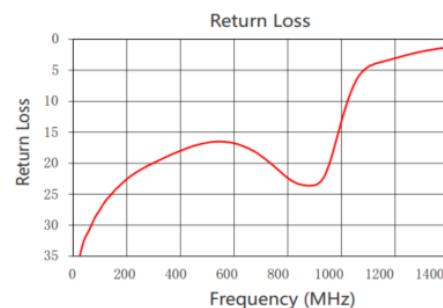
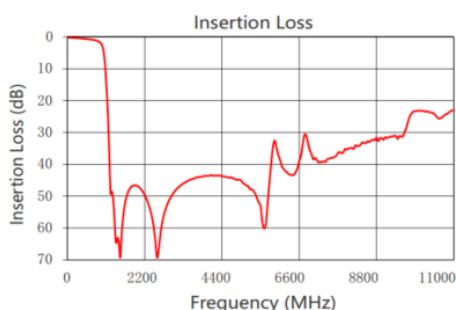
Functional Schematic

Electrical Specifications⁽¹⁾ at 25°C

Parameter		Frequency (MHz)	MIN	Typ.	MAX	Unit
Pass Band	Insertion Loss	DC-850	-	1.3	2.2	dB
	Freq. Cut-off	1000	-	3.0	-	dB
	Return Loss	DC-850	-	18	-	dB
Stop Band	Rejection Loss	1300-1600	20	48	-	dB
		1600-4500	33	46	-	dB
		4500-11000	-	20	-	dB

(1) Tested on Demo Board.

Typical Performance Data 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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