

Low Pass Filter

WGLL-01900-2012

50Ω

DC to 1900 MHz

Ver. A

2025.09.08

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

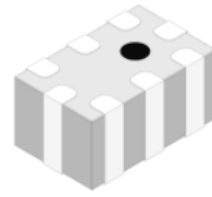
Ground 1,2,3,5,6,7

Features

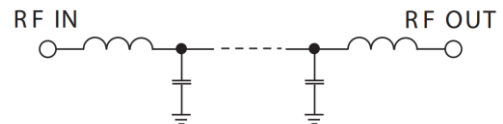
- High Performance
- Small Size
- Wide Band
- Ultra Low I.L.
- Temperature Stable
- LTCC Structure

Application

- Harmonic Rejection
- Transmitters/Receivers
- Lab Use

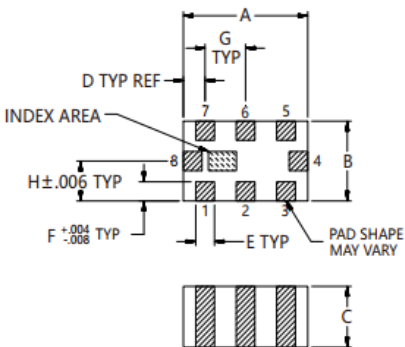


RoHS Compliant



Functional Schematic

Outline Drawing

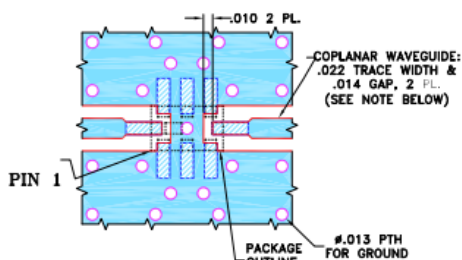


Outline Dimensions (inch)

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:

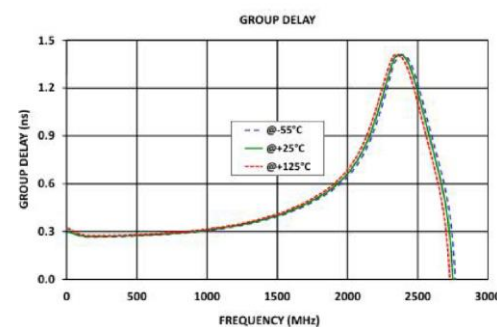
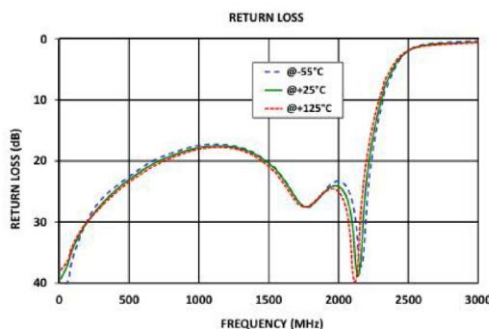
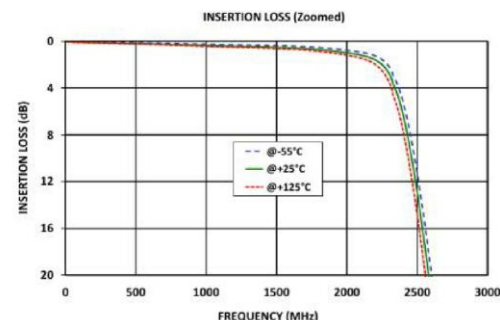
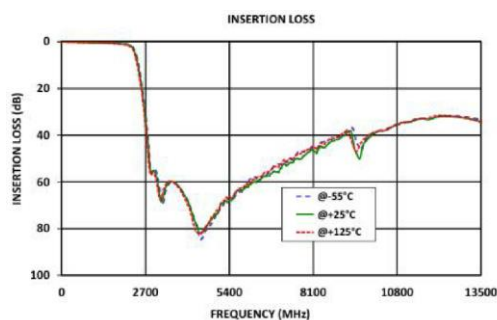
1. COPLANAR WAVEGUIDE IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .010" ± .001". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH AND GAP MAY NEED TO BE MODIFIED.
 2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER).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

Electrical Specifications⁽¹⁾ at 25°C

Parameter		Frequency (MHz)	MIN	Typ.	MAX	Unit
Pass Band	Insertion Loss	DC-1900	--	0.9	1.8	dB
	Freq. Cut-off	2300	--	3.0	--	dB
	Return Loss	DC-1900	--	15	--	dB
Stop Band	Rejection Loss	2750-3200	20	32	--	dB
		3200-7500	40	51	--	dB
		7500-13500	--	28	--	dB

(1) Test on our 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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