

Low Pass Filter

WGLL-02600-2012

50Ω DC to 2600 MHz

Ver. A
2023.12.12

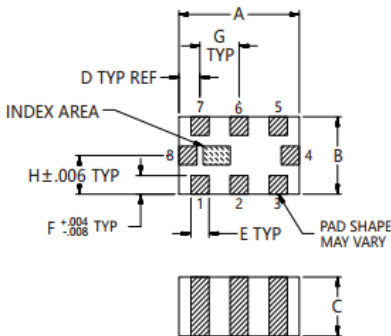
Maximum Rating

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

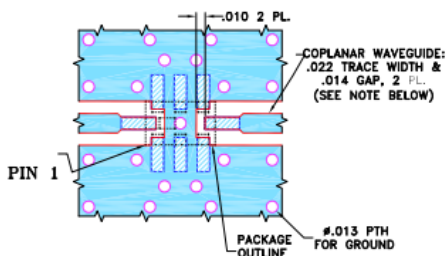


Outline Dimensions (inch/mm)

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

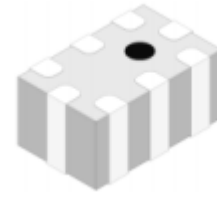
Demo Board MCL P/N: CG-2012 Suggested PCB Layout



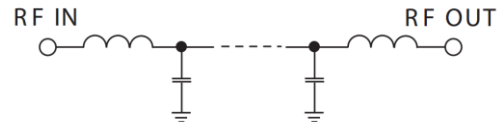
- NOTES:
- COPLANAR WAVEGUIDE IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .010" ± .001", COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH AND GAP MAY NEED TO BE MODIFIED.
 - BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER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



RoHS Compliant



Functional Schematic

Application

- Harmonic Rejection
- Transmitters/Receivers
- Lab Use

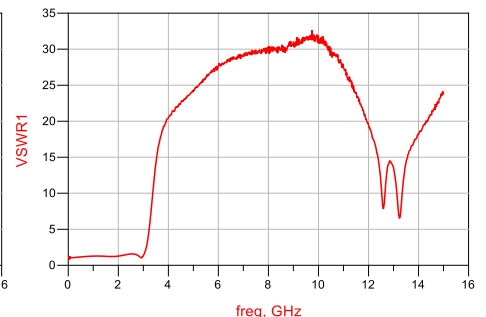
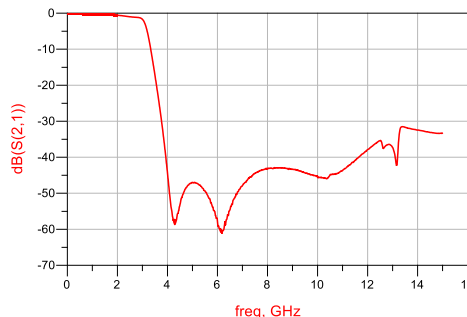
Electrical Specifications⁽¹⁾ at 25°C

Parameter	Frequency (MHz)	MIN	Typ.	MAX	Unit	
Pass Band	Insertion Loss	DC-2600	-	1.1	2.2	dB
	Freq. Cut-off	3110	-	3.0	-	dB
	VSWR	DC-2600	-	1.5	-	dB
Stop Band	Rejection Loss	3850-4200	20	35	-	dB
		4200-7000	38	50	-	dB
		7000-10000	-	40	-	dB
		10000-15000	-	30	-	dB

(1) Tested on Demo Board.

Typical Performance at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	0.042	1.016
500	0.188	1.161
1000	0.340	1.271
2000	0.584	1.275
2600	1.074	1.568
3000	1.704	1.337
3110	3.079	2.376
3500	17.20	14.11
4000	44.20	20.47
5000	47.01	24.16
6000	57.66	27.58
7000	47.88	29.05
8000	43.20	29.85
9000	43.37	30.86
10000	45.34	31.48



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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