

Low Pass Filter

WGLL-02290

50Ω DC to 2290 MHz

Ver. A
2022.02.22

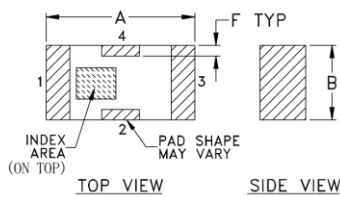
Maximum Rating

Operating Temperature	-55°C~+100°C
Storage Temperature	-55°C~+100°C
RF Input Power	10W max at 25°C

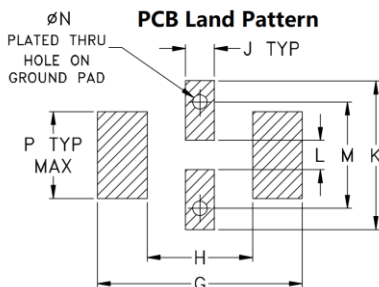
Pin Connections

RF Input	1
RF Output	3
Ground	2,4

Outline Drawing



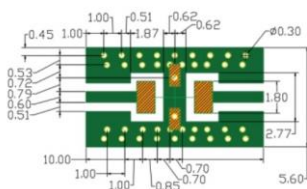
PCB Land Pattern



Outline Dimensions (Tolerance) mm

A	B	C	D	E	F	G	
3.20	1.60	0.95	0.51	0.81	0.23	4.29	
±0.2	±0.2	±0.2	±0.1	±0.1	±0.1		
H	J	K	L	M	N	P	wt
2.21	0.61	3.10	0.61	2.21	0.30	1.8	.020

Demo Board MCL P/N: T-39 Suggested PCB Layout (PL-137)



NOTES: 1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350 WITH THICKNESS .508" ± .0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH & GAP MAY NEED TO BE MODIFIED.

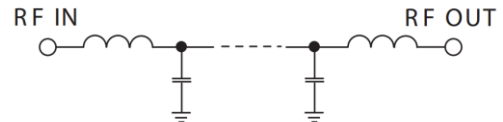
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
 DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
 DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Features

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



RoHS Compliant



Application

- Harmonic Rejection
- Transmitters/Receivers
- Lab Use

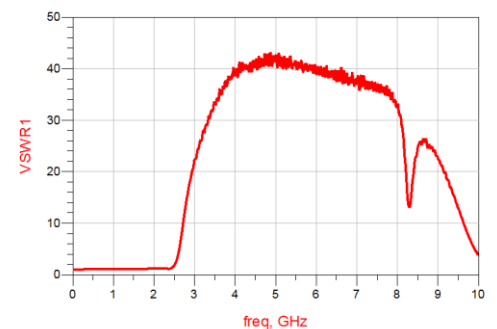
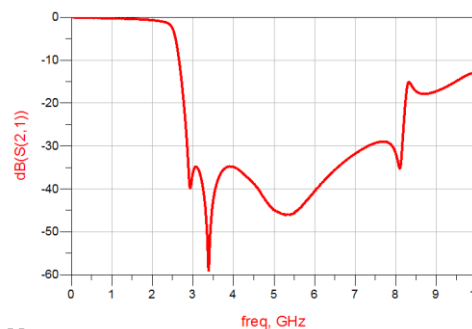
Electrical Specifications⁽¹⁾ at 25°C

Parameter	Frequency (MHz)	MIN	Typ.	MAX	Unit	
Pass Band	Insertion Loss	DC-2290	-	1.5	2.0	dB
	Freq. Cut-off	2425	-	3.0	-	dB
	VSWR	DC-2290	-	1.5	1.8	:1
Stop Band	Rejection Loss	2850	25	30	-	dB
		3000-6000	25	35	-	dB
		7200	20	25	-	dB

(1) Tested on Demo Board.

Typical Performance at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	0.07	1.01
500	0.15	1.13
1000	0.24	1.18
1500	0.33	1.08
2000	0.67	1.26
2250	1.06	1.19
2575	9.64	6.76
2850	39.45	14.81
3800	39.49	27.72
4250	40.28	38.91
5000	45.21	55.43
6500	37.17	40.59
7200	34.53	36.95
8000	26.73	21.10
9000	14.79	12.18



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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