

Low Pass Filter

WGLL-06400

50Ω DC to 6400 MHz

Ver. A
2021.11.28

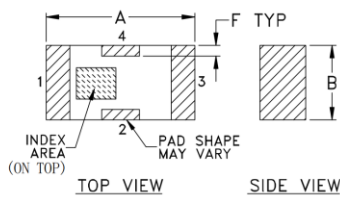
Maximum Rating

Operating Temperature	-55°C~+100°C
Storage Temperature	-55°C~+100°C
RF Input Power	7W max at 25°C

Pin Connections

RF Input	1
RF Output	3
Ground	2,4

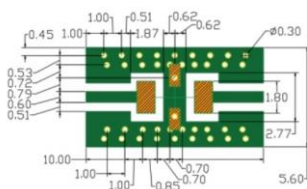
Outline Drawing



Outline Dimensions (Tolerance)

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.

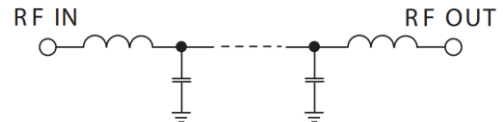
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
 DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
 DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Features

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



RoHS Compliant



Application

- Harmonic Rejection
- Transmitters/Receivers
- Lab Use

Functional Schematic

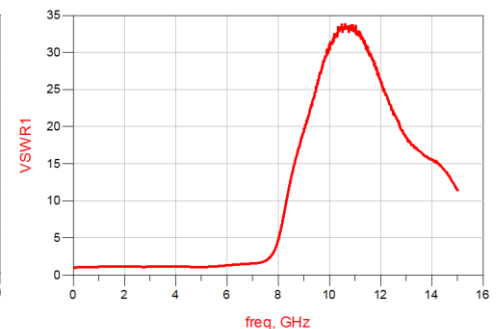
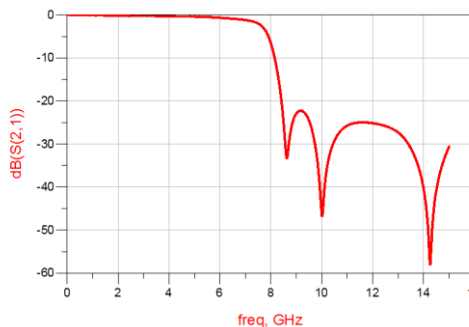
Electrical Specifications⁽¹⁾ at 25°C

Parameter	Frequency (MHz)	MIN	Typ.	MAX	Unit	
Pass Band	Insertion Loss	DC-6400	-	0.9	2.0	dB
	Freq. Cut-off	7200	-	3.0	-	dB
	VSWR	DC-6400	-	1.2	2.0	:1
Stop Band	Rejection Loss	8500	20	30	-	dB
		8500-10200	20	30	-	dB
		10200-12500	20	25	-	dB

(1) Tested on Demo Board.

Typical Performance at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
500	0.10	1.07
2000	0.24	1.10
4000	0.38	1.11
5500	0.55	1.15
6400	0.88	1.42
7000	1.24	1.55
7350	1.66	1.72
7500	2.86	1.91
7680	3.54	2.38
7770	14.91	2.78
8300	35.75	9.56
10200	25.77	32.41
11000	25.87	33.02
12500	30.63	21.63
15000	2.03	11.41



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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