

Band Pass Filter

WGLB-01860

50Ω 1580 to 2200 MHz

Ver. C

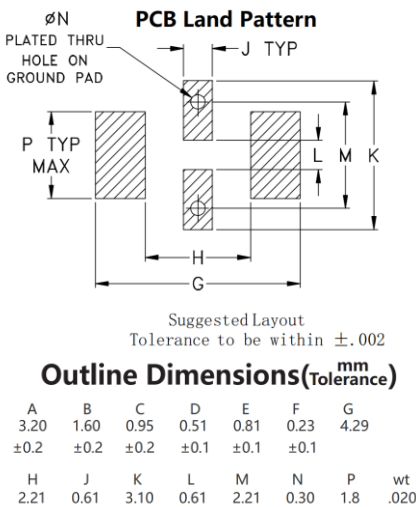
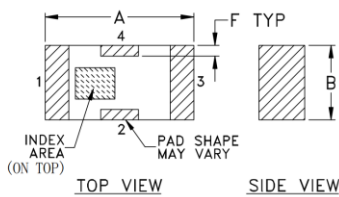
2022.01.26

Maximum Rating

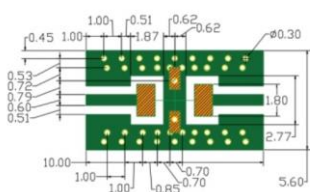
Operating Temperature	-55°C~+100°C
Storage Temperature	-55°C~+100°C
RF Input Power	3W max at 25°C

Pin Connections

RF Input	1
RF Output	3
Ground	2,4



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.

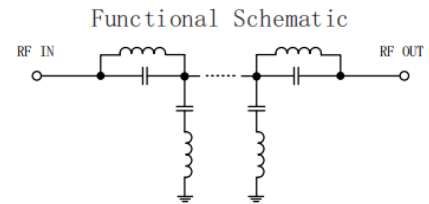
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
 DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
 DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Features

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



RoHS Compliant



Application

- Harmonic Rejection
- Transmitters/Receivers
- Lab Use

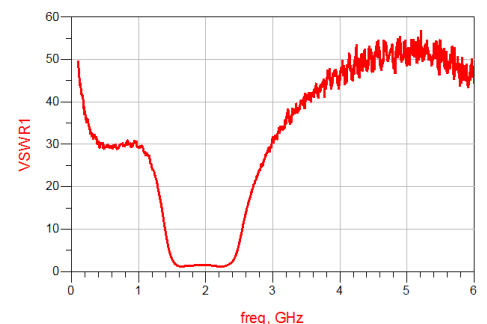
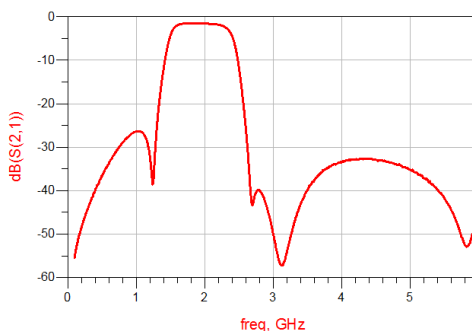
Electrical Specifications⁽¹⁾ at 25°C

Parameter		Frequency (MHz)	MIN	Typ.	MAX	Unit
Pass Band	Center Frequency	-	-	1860	-	MHz
	Insertion Loss	1580-2200	-	2.0	3.0	dB
	VSWR	1580-2200	-	1.5	2.5	:1
Stop Band	Rejection Loss	1300	15	20	-	dB
		2600-4800	15	20	-	dB
		5000	15	20	-	dB

(1) Test on our Demo Board.

Typical Performance at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
100	55.40	49.47
300	43.91	31.95
500	36.58	29.31
1000	26.39	29.24
1200	32.22	24.21
1400	11.89	9.24
1580	2.13	1.36
2000	1.56	1.508
2200	1.81	1.16
2700	43.22	19.58
3000	50.03	31.91
3500	39.84	40.75
4000	33.59	45.14
4500	32.95	47.68
5700	48.39	47.45



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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