

Band Pass Filter

WGLB-02500

50Ω 2100 to 2900 MHz

Ver. A
2022.01.26

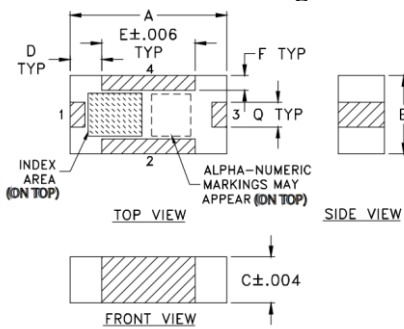
Maximum Rating

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

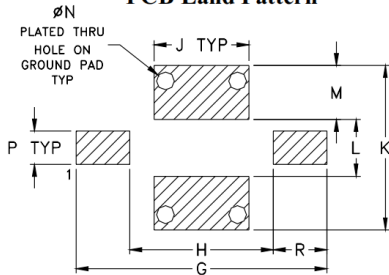
Pin Connections

RF Input	1
RF Output	3
Ground	2,4

Outline Drawing



PCB Land Pattern

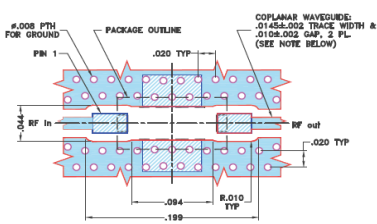


Suggested Layout,
Tolerance to be within ±002

Outline Dimensions (inch)

A	B	C	D	E	F	G	H	J
.126	.063	.037	.026	.075	.012	.182	.104	.069
K	L	M	N	P	Q	R	wt	
.119	.041	.039	.013	.024	.020	.039	grams	
3.02	1.04	0.99	0.33	0.61	0.51	0.99	.020	

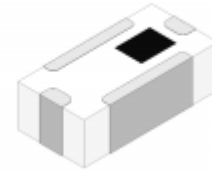
Demo Board MCL P/N: T-39D Suggested PCB Layout (PL-137)



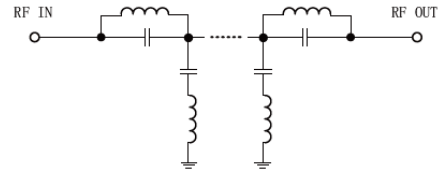
NOTES:
1. TRACE WIDTH PARAMETERS ARE SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .0068±.0007", COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH AND GAP MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
3. DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER).
4. 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

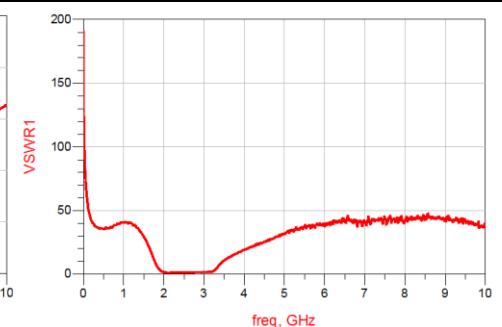
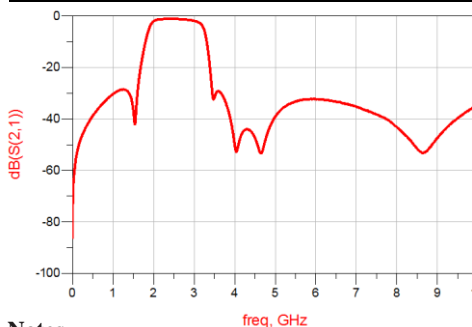
Electrical Specifications⁽¹⁾ at 25°C

Parameter	Frequency (MHz)	MIN	Typ.	MAX	Unit
Pass Band	Center Frequency	-	2500	-	MHz
	Insertion Loss	2100-2900	2.0	3.0	dB
	VSWR	2100-2900	-	1.5	1.8
Stop Band	Rejection Loss	DC-1600	20	28	dB
		3700-5200	20	28	dB

(1) Tested on Demo Board.

Typical Performance at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
500	38.78	35.23
1000	30.31	40.17
1600	30.15	23.13
2100	1.398	1.064
2500	1.148	1.188
		1.349
2900	1.599	
3700	30.97	14.35
4000	50.19	18.89
5000	39.07	32.23
5200	35.59	35.23
6000	32.36	37.62
6500	33.28	41.46
7000	35.26	40.77
8000	43.30	41.57
9000	47.35	42.92



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.