

Band Pass Filter

WGLB-04100

50Ω 3700 to 4500 MHz

Ver. A
2022.08.14

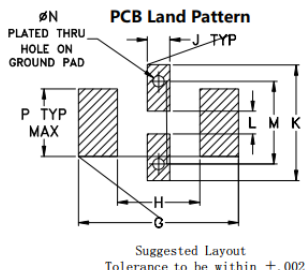
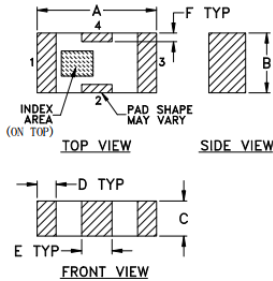
Maximum Rating

Operating Temperature	-55°C~+100°C
Storage Temperature	-55°C~+100°C
RF Input Power	1.5W max at 25°C

Pin Connections

RF Input	1
RF Output	3
Ground	2,4

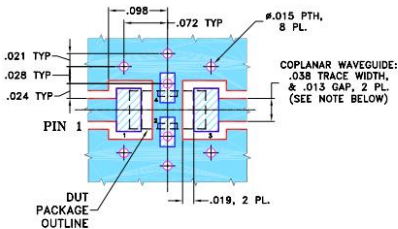
Outline Drawing



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
2.21	0.61	3.10	0.61	2.21	0.30	1.8
						wt
						.020

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



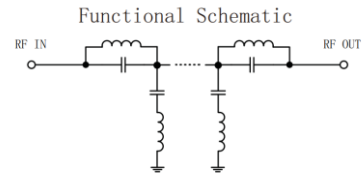
- NOTES:
- COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS R04350B WITH THICKNESS .020" ± .0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH & GAP MAY NEED TO BE MODIFIED.
 - BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
 - DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER 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



Application

- Harmonic Rejection
- Transmitters/Receivers
- Lab Use

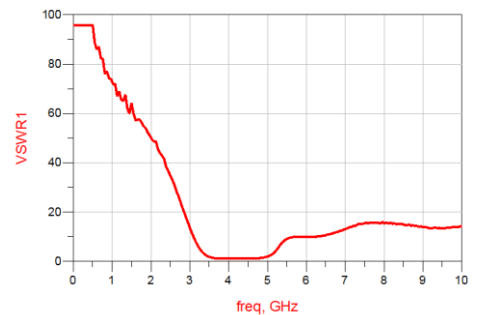
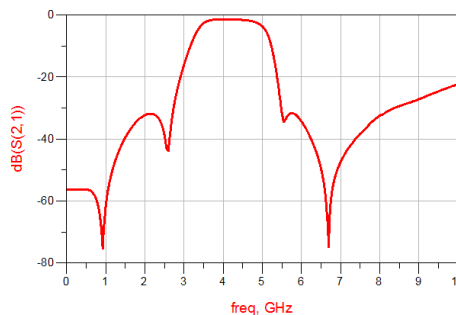
Electrical Specifications⁽¹⁾ at 25°C

Parameter	Frequency (MHz)	MIN	Typ.	MAX	Unit
Pass Band	Center Frequency	-	4100	-	MHz
	Insertion Loss	3700-4500	1.7	2.0	dB
	VSWR	3700-4500	1.5	2.0	:1
Stop Band	Rejection Loss	DC-2200	20	25	dB
		6000-9000	15	22	dB

(1) Test on our Demo Board.

Typical Performance at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
500	56.43	95.79
1000	61.46	72.80
2000	32.36	50.13
3000	15.98	13.65
3700	1.64	1.205
4100	1.45	1.234
4500	1.62	1.159
5100	5.4	2.683
6000	34.40	10.03
6500	49.75	10.63
7000	47.36	13.12
7500	38.3	15.46
8000	32.49	15.52
8500	29.45	14.97
9000	27.15	13.98



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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