

High Pass Filter

WGLH-01500-2012

50Ω 1600 to 6000 MHz

Ver. A
2022.01.27

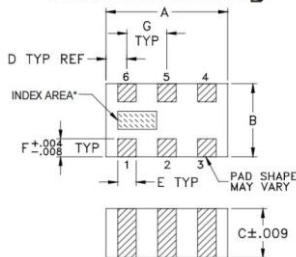
Maximum Rating

Operating Temperature	-55°C~+100°C
Storage Temperature	-55°C~+100°C
RF Input Power	2W max at 25°C

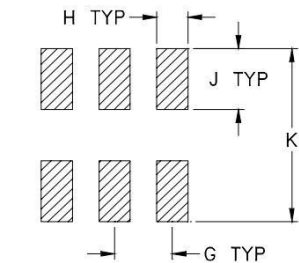
Pin Connections

PRIMARY DOT (Unbalanced Port)	1
PRIMARY (GND)	2
SECONDARY DOT (Balanced)	4
SECONDARY (Balanced)	3
NO CONNECTION	6
NOT USED (GND Extremally)	5

Outline Drawing



Functional Schematic

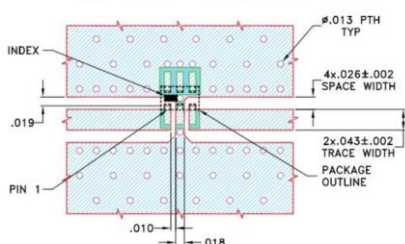


Suggested Layout Tolerance to be within ±0.002

Outline Dimensions

	inch				
	mm				
A	.079	.049	.033	.014	.012
B	2.01	1.24	0.84	0.36	0.30
C					
D					
E					
F					
G	.026	.014	.039	.110	wt
H	0.66	0.36	1.00	2.80	grams
J					.008
K					

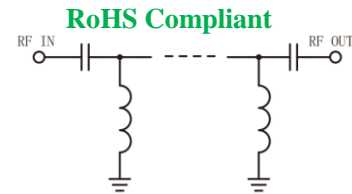
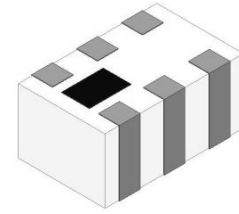
Demo Board MCL P/N:TB-1004 Suggested PCB Layout (PL-633)



- NOTES:
1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS (RO4350B) WITH DIELECTRIC THICKNESS .020±.0015, 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.
- DENOTES PCB COPPER PATTERN WITH SMOBC (SOLDER MASK OVER BARE COPPER)
■ DENOTES PCB COPPER PATTERN FREE OF SOLDERMASK

Features

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



Application

- Harmonic Rejection
- Transmitters/Receivers
- Base Station of Mobile Communication
- Lab Use

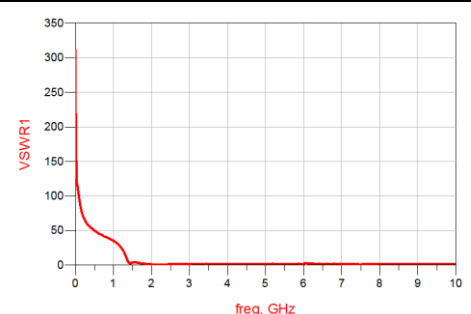
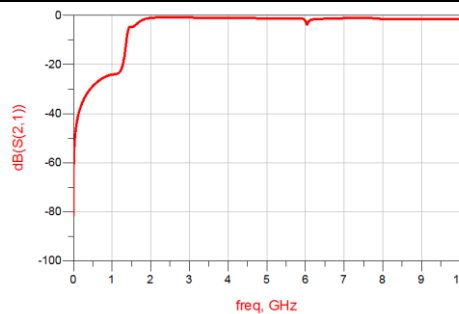
Electrical Specifications⁽¹⁾ at 25°C

Parameter	Frequency (MHz)	MIN	Typ.	MAX	Unit	
Pass Band	Insertion Loss	1900-6000	-	1.7	2.0	dB
	Freq. Cut-off	1500	-	3.0	-	dB
	VSWR	1900-6000	-	1.5	2.0	:1
Stop Band	Rejection Loss	DC-800	25	30	-	dB
		800-1000	23	30	-	dB

(1) Tested on Demo Board.

Typical Performance at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
100	40.12	178.78
1060	24.45	32.79
1250	21.82	20.63
1400	7.19	8.19
1480	4.29	3.25
1550	4.52	1.62
1600	3.78	1.22
1620	3.60	1.14
1850	1.41	1.16
2000	1.24	1.19
3450	0.98	1.19
4400	1.05	1.55
5500	1.27	1.63
7700	1.07	2.24
9000	1.56	2.87



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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