

PRODUCT SPECIFICATION FOR INFORMATION

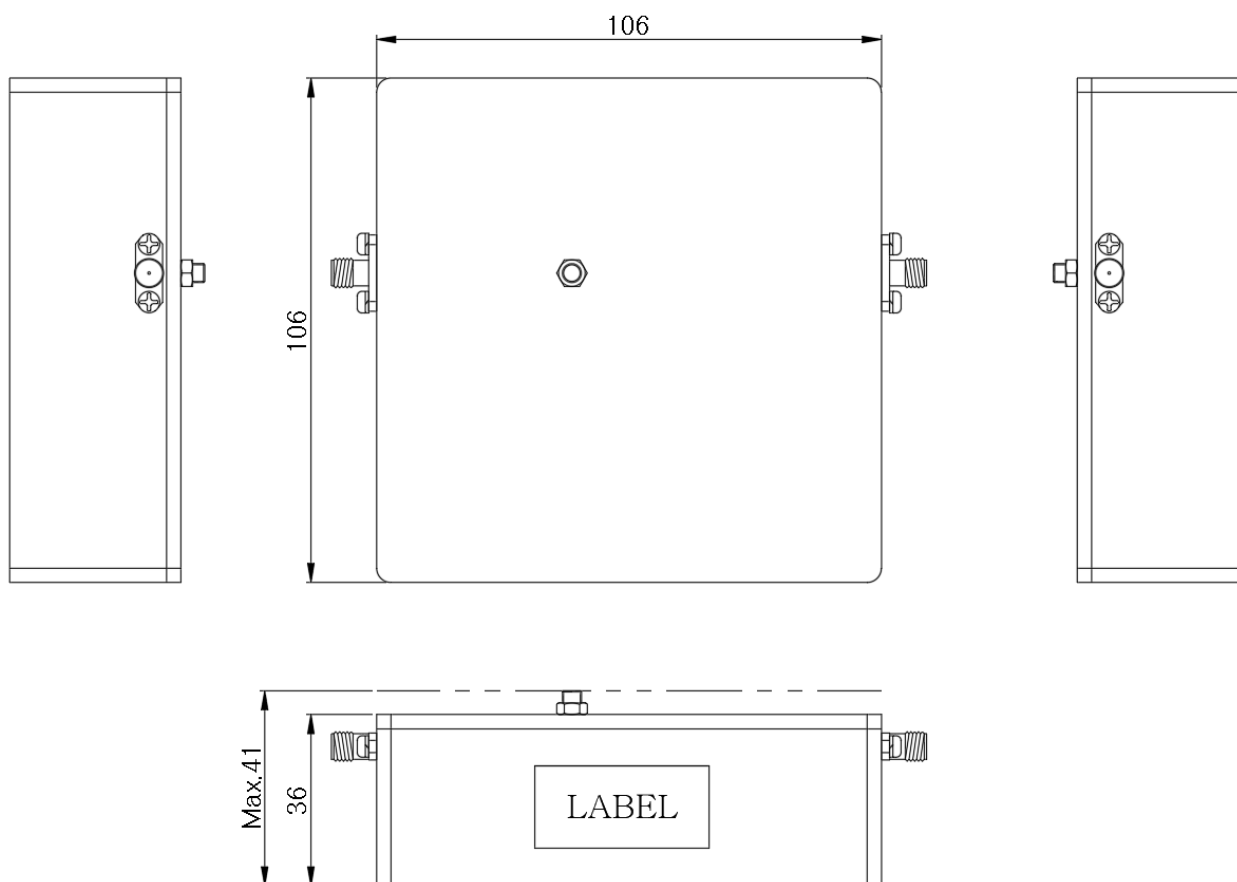
PRELIMINARY SPECIFICATION

Product Name : Cavity _Band Pass Filter

Part No : MBP-C1400_600MS-A-R0

	Rev. No.	Description	Date	Author	Final Approver
1	R0	Draft	2025.02.10	Jeffrey Chung	Michael Jeon

■ Mechanical Drawing



■ Electrical Specification

Parameter	Specification	Remark
1. Center Frequency	1400MHz	OK
2. Bandwidth [BW]	$F_c \pm 300\text{MHz}$ [1100~1700MHz]	OK
3. Insertion Loss in BW	1.0dB Max.	Proposal
4. Return Loss	15dB Min.	Proposal
5. Rejections	40dB Min @ 1050MHz(F _e -50MHz)	OK
	40dB Min @ 1750MHz(F _e +50MHz)	OK
6. Impedance	50Ohm	OK
7. Operating Temperature	20°C ~ +25°C	OK
8. Power Handling	10W Max.	OK
9. Size (W × D × H)	106.0 x 106.0 x 36.0 mm	Proposal
10. Connector	SMA (F)	OK
11. Finish	Black epoxy	TBD

Remarks: This is a preliminary datasheet for reference.

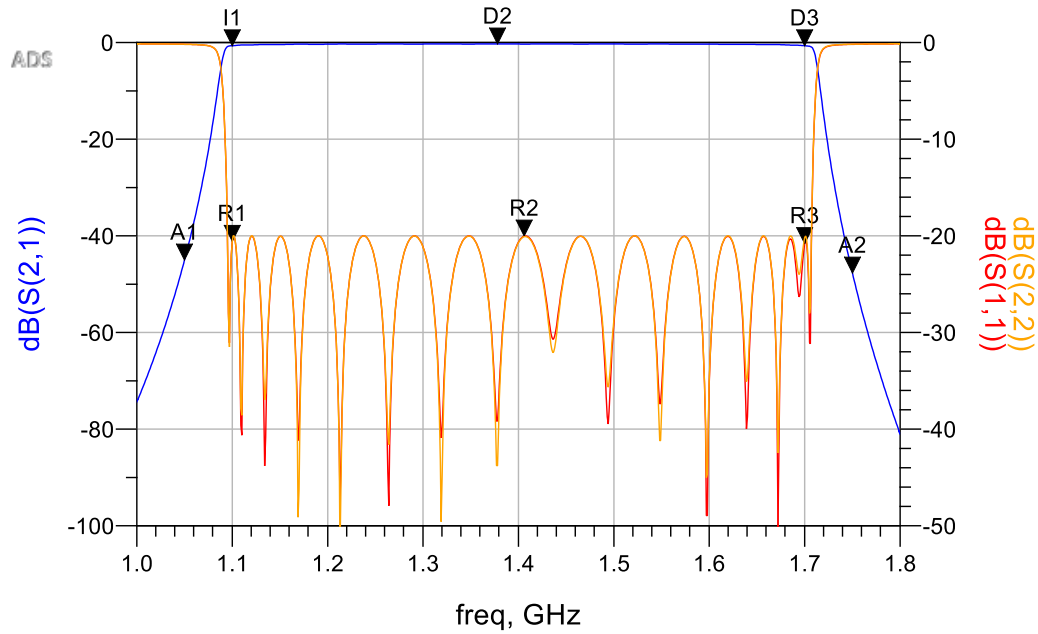
Simulation Data

Insertion loss
[dB]

I1
freq=1.1000GHz
dB(S(2,1))=-0.6675

D2
freq=1.3780GHz
dB(S(2,1))=-0.2761
Max

D3
freq=1.7000GHz
dB(S(2,1))=-0.6734



Rejection [dB]

A1
freq=1.0500GHz
dB(S(2,1))=-45.0071

A2
freq=1.7500GHz
dB(S(2,1))=-47.7009

Return loss
[dB]

R1
freq=1.1000GHz
dB(S(1,1))=-20.5694

R2
freq=1.4060GHz
dB(S(1,1))=-20.0309

R3
freq=1.7000GHz
dB(S(1,1))=-20.7951