

PRODUCT SPECIFICATION FOR INFORMATION

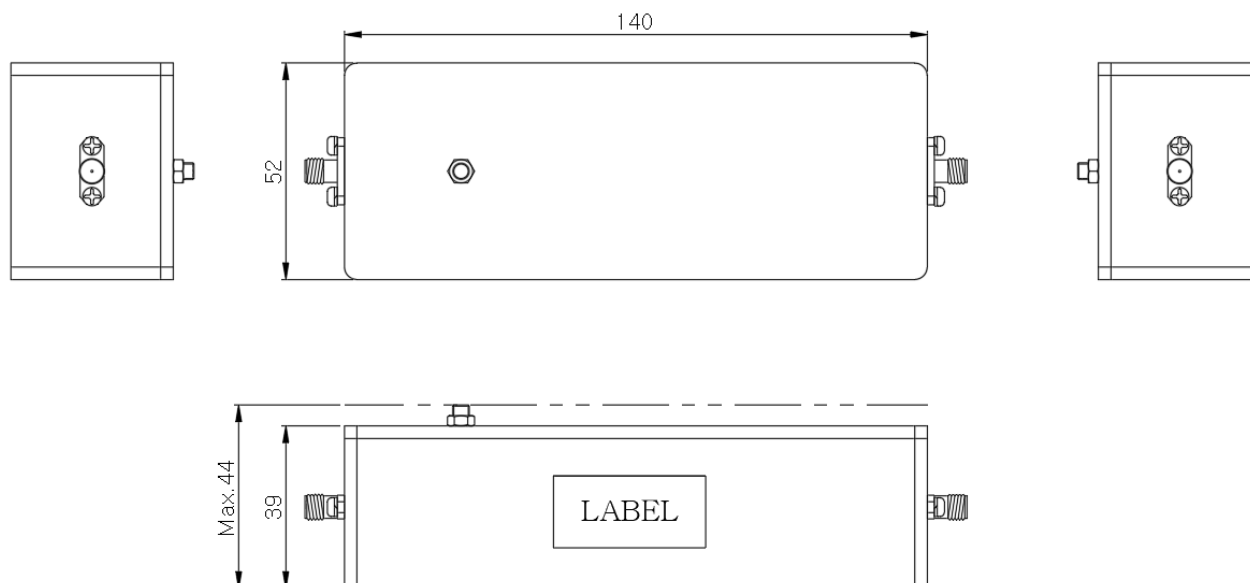
PRELIMINARY SPECIFICATION

Product Name : Cavity _Band Pass Filter

Part No : MBP-C2185_0.5MS-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	2185MHz	OK
2. Bandwidth [BW]	$F_c \pm 0.25\text{MHz}$ [2184.75~2185.25MHz]	OK
3. Insertion Loss in BW	2.0dB Max.	Proposal
4. Return Loss	20dB Min.	Proposal
5. Rejections	50dB Min @ 2170MHz	OK
6. Impedance	50Ohm	OK
7. Operating Temperature	20°C ~ +25°C	OK
8. Power Handling	10W Max.	OK
9. Size (W × D × H)	140.0 x 52.0 x 39.0 mm	Proposal
10. Connector	SMA (F)	OK
11. Finish	Black epoxy	TBD

Remarks: This is a preliminary datasheet for reference.

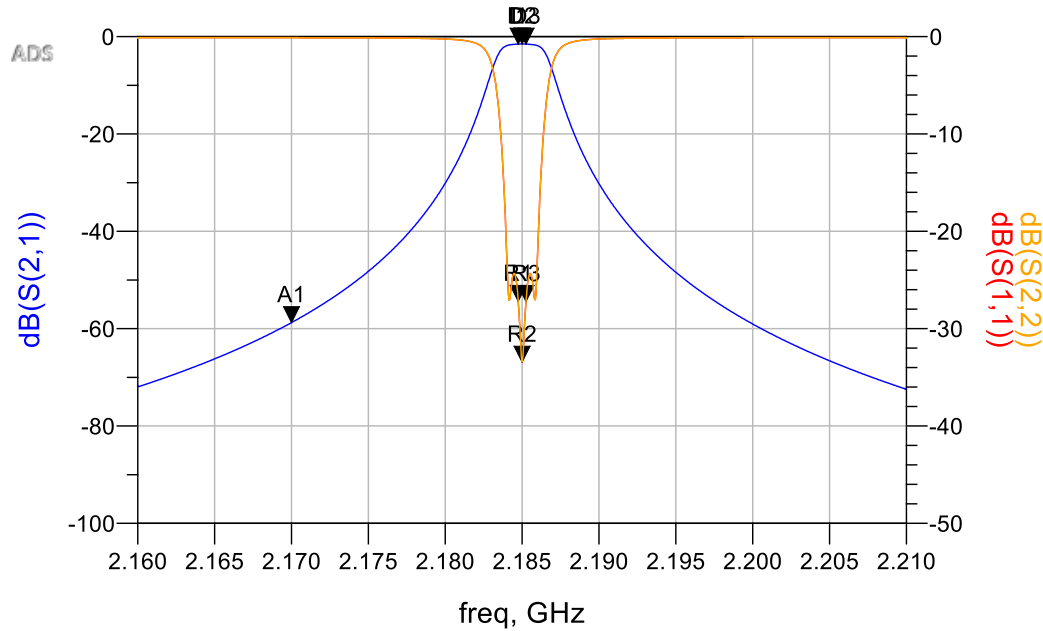
Simulation Data

Insertion loss
[dB]

I1
freq=2.18475GHz
dB(S(2,1))=-1.54518

D2
freq=2.18500GHz
dB(S(2,1))=-1.52794
Max

D3
freq=2.18525GHz
dB(S(2,1))=-1.54556



Rejection [dB]

A1
freq=2.17000GHz
dB(S(2,1))=-58.75791

Return loss
[dB]

R1
freq=2.18475GHz
dB(S(1,1))=-27.20491

R2
freq=2.18500GHz
dB(S(1,1))=-33.44712

R3
freq=2.18525GHz
dB(S(1,1))=-27.21068