

PRODUCT SPECIFICATION FOR INFORMATION

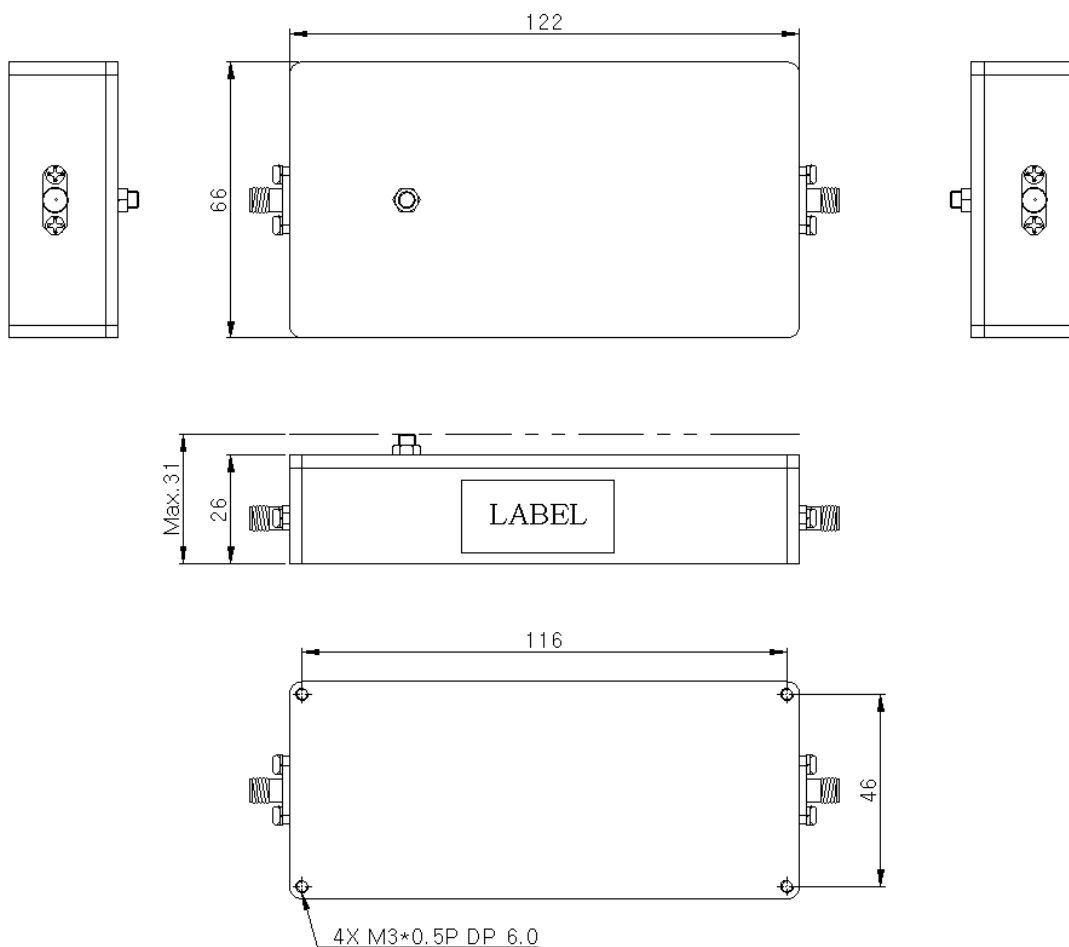
PRELIMINARY SPECIFICATION

Product Name : Cavity _Band Pass Filter

Part No : MBP-C2190_20MS-A-R0

	Rev. No.	Description	Date	Author	Final Approver
1	R0	Draft	2025.02.18	Jeffrey Chung	Michael Jeon

■ Mechanical Drawing



■ Electrical Specification

Parameter	Specification	Remark
1. Center Frequency	2190MHz	OK
2. Bandwidth [BW]	$F_c \pm 10\text{MHz}$ [2180~2200MHz]	OK
3. Insertion Loss in BW	1.6dB Max.	Proposal
4. Return Loss	18dB Min.	Proposal
5. Rejections	50dB Min @ 2170MHz	OK
6. Impedance	50Ohm	OK
7. Operating Temperature	Room Temperature	OK
8. Power Handling	10W Max.	OK
9. Size (W × D × H)	122.0 × 66.0 × 26.0 mm	Proposal
10. Connector	SMA (F)	OK
11. Finish	Black epoxy	TBD

Remarks: This is a preliminary datasheet for reference.

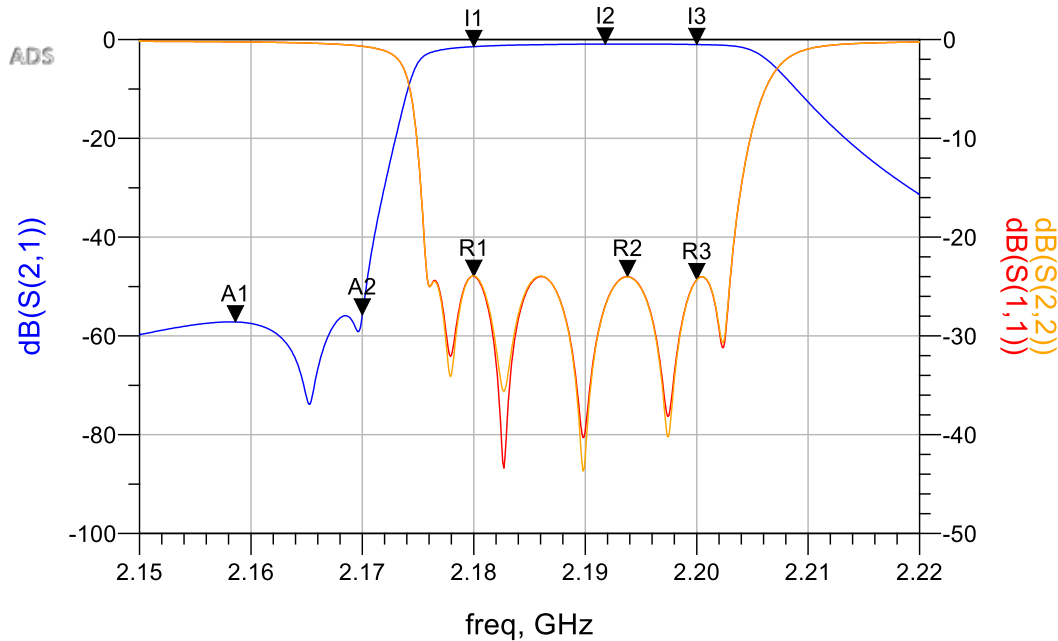
■ Simulation Data

Insertion loss
[dB]

I1
freq=2.18000GHz
dB(S(2,1))=-1.43706

I2
freq=2.1918GHz
dB(S(2,1))=-0.9261
Max

I3
freq=2.20000GHz
dB(S(2,1))=-1.01811



Rejection [dB]

A1
freq=2.1586GHz
dB(S(2,1))=-57.1823

A2
freq=2.1700GHz
dB(S(2,1))=-55.7979

Return loss
[dB]

R1
freq=2.1800GHz
dB(S(1,1))=-23.9737

R2
freq=2.1938GHz
dB(S(1,1))=-24.0025

R3
freq=2.2000GHz
dB(S(1,1))=-24.3162