

PRODUCT SPECIFICATION FOR INFORMATION

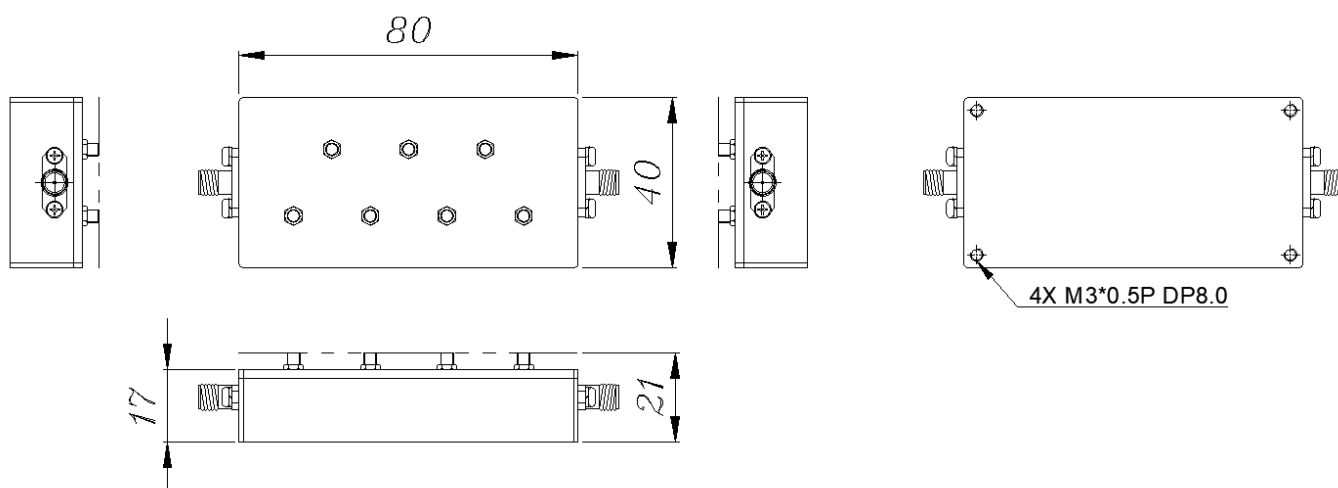
PRELIMINARY SPECIFICATION

Product Name : Cavity _Band Pass Filter

Part No : MBP-C4500_200MS-A-R0

	Rev. No.	Description	Date	Author	Final Approver
1	R0	Draft	2025.02.24	Jeffrey Chung	Michael Jeon

■ Mechanical Drawing



■ Electrical Specification

Parameter	Specification	Remark
1. Center Frequency	4500MHz	OK
2. Bandwidth [BW]	$F_c \pm 100\text{MHz}$ [4400~4600MHz]	OK
3. Insertion Loss in BW	0.8dB Max.	OK
4. 3dB Bandwidth	240MHz Max.	OK
5. Return Loss	14dB Min.	OK
6. Rejections	70dB Min @ 4200MHz	OK
	70dB Min @ 4800MHz	OK
7. Impedance	50Ohm	OK
8. Power Handling	CW 100W Max.	OK
9. Size (W × D × H)	80 x 40 x 17mm (Max. 21mm)	TBD
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=4.4000GHz
dB(S(2,1))=-0.5970

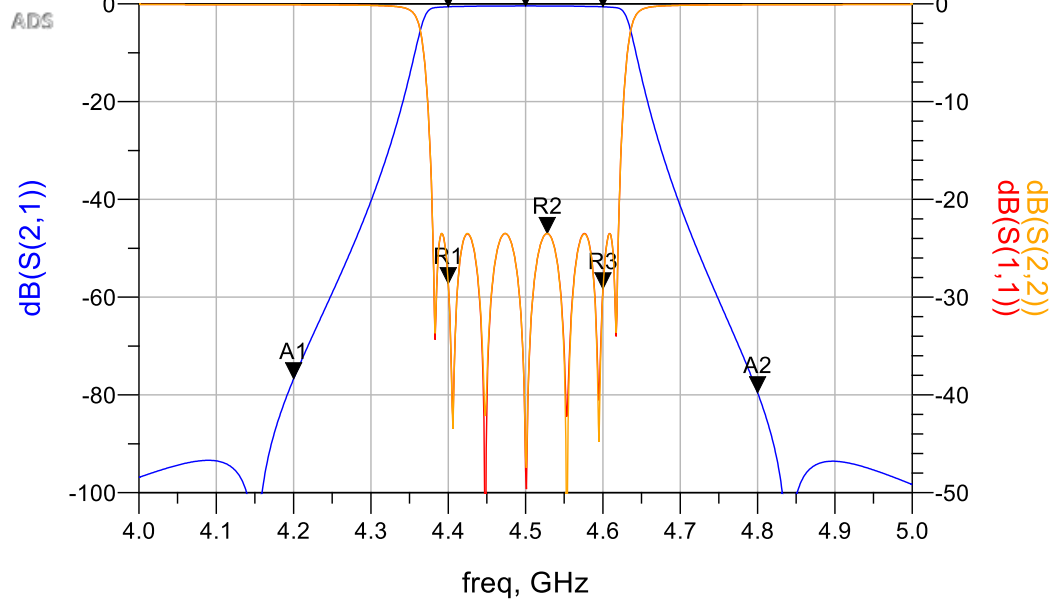
D2
freq=4.5000GHz
dB(S(2,1))=-0.4307

D3
freq=4.6000GHz
dB(S(2,1))=-0.6052

Rejection [dB]

A1
freq=4.2000GHz
dB(S(2,1))=-76.7256

A2
freq=4.8000GHz
dB(S(2,1))=-79.5605



Return loss
[dB]

R1
freq=4.4000GHz
dB(S(1,1))=-28.6307

R2
freq=4.5280GHz
dB(S(1,1))=-23.4913

R3
freq=4.6000GHz
dB(S(1,1))=-29.1505