

PRODUCT SPECIFICATION FOR INFORMATION

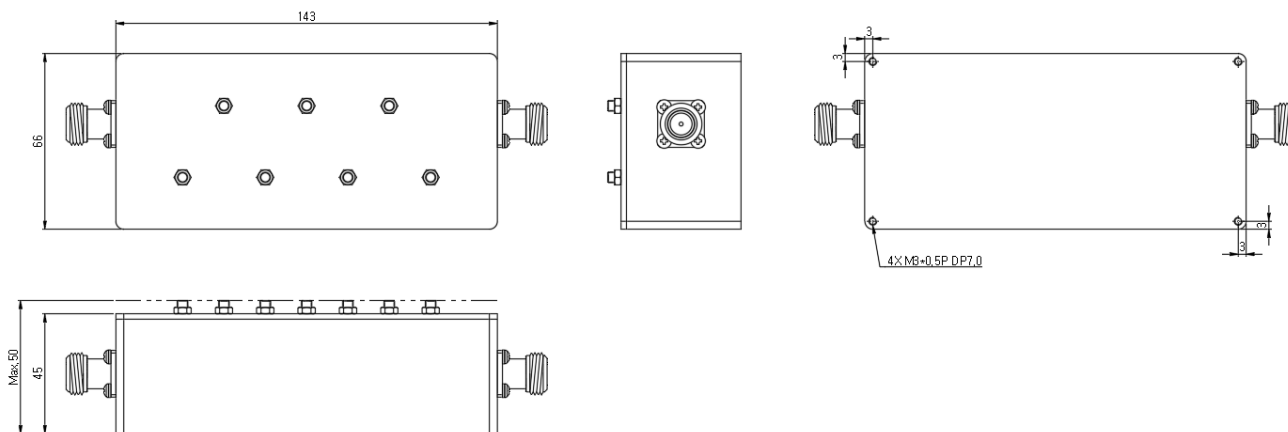
PRELIMINARY SPECIFICATION

Product Name : Cavity _Band Pass Filter

Part No : MBP-C843.5_53MN-A-R0

	Rev. No.	Description	Date	Author	Final Approver
1	R0	Draft	2024.10.01	Jeffrey Chung	Michael Jeon

■ Mechanical Drawing



■ Electrical Specification

Parameter	Specification	Remark
1. Center Frequency	843.5MHz	OK
2. Bandwidth [BW]	$F_c \pm 26.5\text{MHz}$ [817~870MHz]	OK
3. Insertion Loss in BW	1.5dB Max.	OK
4. Return Loss	16dB Min.	Proposal
5. Rejections	55dB Min @ 773MHz	OK
	55dB Min @ 896MHz	OK
6. Impedance	50Ohm	OK
7. Operating Temperature	-10°C ~ +80°C	OK
8. Power Handling	25W Max.	OK
9. Size (W × D × H)	143.0 x 66.0 x 45.0 mm	Proposal
10. Connector	N (F)	OK
11. Finish	Black Painting	TBD

Remarks: This is a preliminary datasheet for reference.

Simulation Data

Insertion loss
[dB]

I1
freq=817.00MHz
dB(S(2,1))=-0.7267

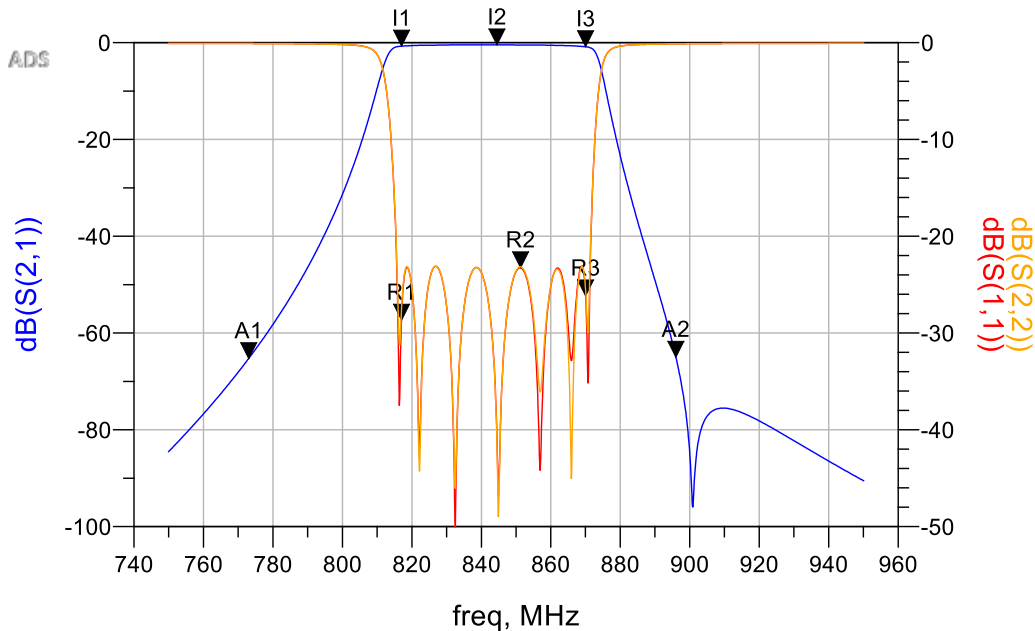
I2
freq=844.50MHz
dB(S(2,1))=-0.4572
Max

I3
freq=870.00MHz
dB(S(2,1))=-0.8589

Rejection [dB]

A1
freq=773.00MHz
dB(S(2,1))=-65.2917

A2
freq=896.00MHz
dB(S(2,1))=-65.0216



Return loss
[dB]

R1
freq=817.00MHz
dB(S(1,1))=-28.6660

R2
freq=851.30MHz
dB(S(1,1))=-23.2699

R3
freq=870.00MHz
dB(S(1,1))=-26.1667