

PRODUCT SPECIFICATION FOR INFORMATION

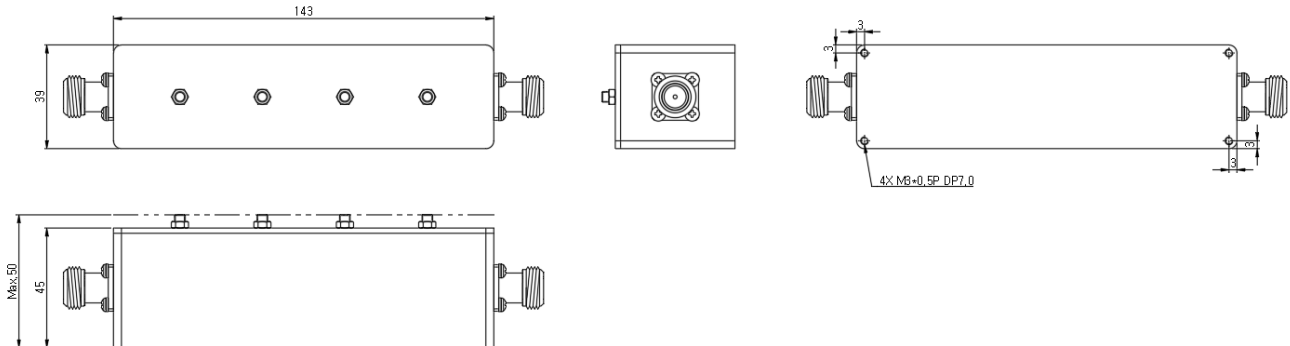
PRELIMINARY SPECIFICATION

Product Name : Cavity _Band Pass Filter

Part No : MBP-C850_10MN-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	850MHz	OK
2. Bandwidth [BW]	Fc ±5MHz[845~855MHz]	OK
3. Insertion Loss in BW	1.5dB Max.	OK
4. Return Loss	16dB Min.	Proposal
5. Rejections	60dB Min @ 773MHz	OK
	60dB 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 39.0 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=845.00MHz
dB(S(2,1))=-0.9158

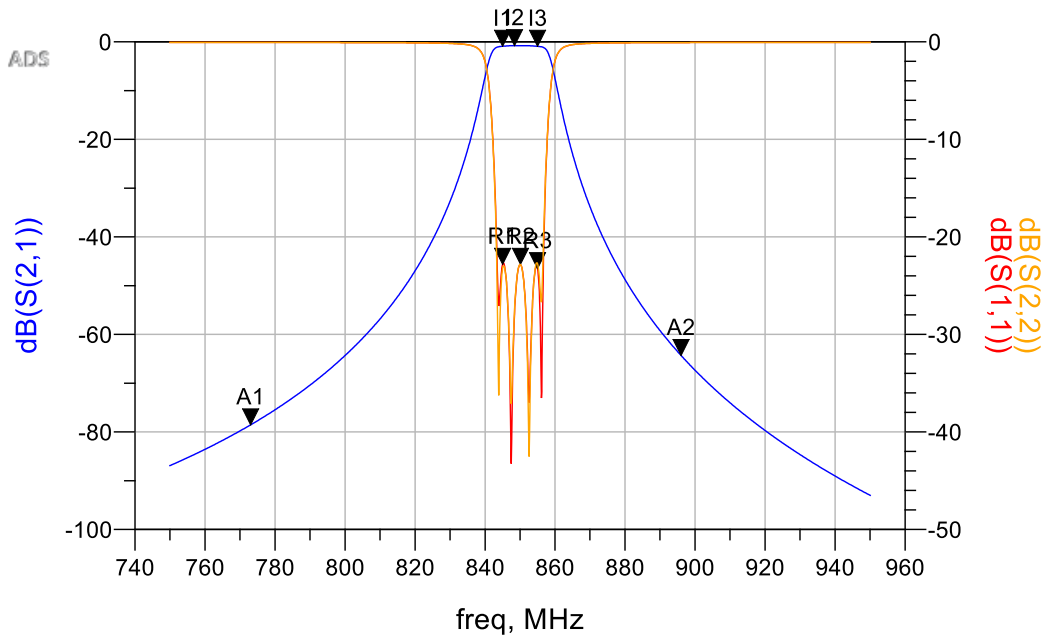
I2
freq=848.40MHz
dB(S(2,1))=-0.7960
Max

I3
freq=855.00MHz
dB(S(2,1))=-0.9290

Rejection [dB]

A1
freq=773.00MHz
dB(S(2,1))=-78.5619

A2
freq=896.00MHz
dB(S(2,1))=-64.3339



Return loss
[dB]

R1
freq=845.00MHz
dB(S(1,1))=-22.8275

R2
freq=850.10MHz
dB(S(1,1))=-22.8313

R3
freq=855.00MHz
dB(S(1,1))=-23.2702