

PRODUCT SPECIFICATION FOR INFORMATION

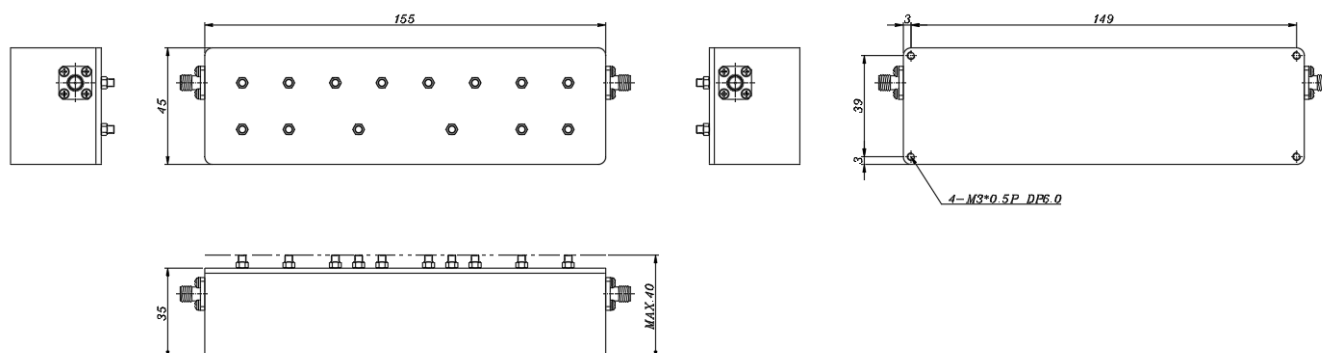
PRELIMINARY SPECIFICATION

Product Name : Cavity Band Pass Filter

Part No : MBP-C1262.5-375MS-A-R0

	Rev. No.	Description	Date	Author	Final Approver
1	R0	Draft	2023.07.12	Jeffrey Chung	Michael Jeon

■ Mechanical Drawing



■ Electrical Specification

Parameter	Specification	Remark
1. Center Frequency	1262.5MHz	
2. Bandwidth [BW]	$F_c \pm 187.5\text{MHz}$ [1075~1450MHz]	
3. Insertion Loss in BW	3.0dB Max.	
4. Return Loss	14.0dB Min.	
5. Rejections	40dB Min @ ($f < 1050\text{MHz}$)	
	40dB Min @ ($1475\text{MHz} < f$)	
6. Impedance	50Ohm	
7. Operating Temperature	-20°C ~ +70°C	
8. Power Handling	-10dBm CW	
9. Size (W × D × H)	155.0x45.0x35.0 mm	Excluding tuning screw and Connector.
10. Connector	SMA (F)	

Remarks: This is a preliminary datasheet for reference.

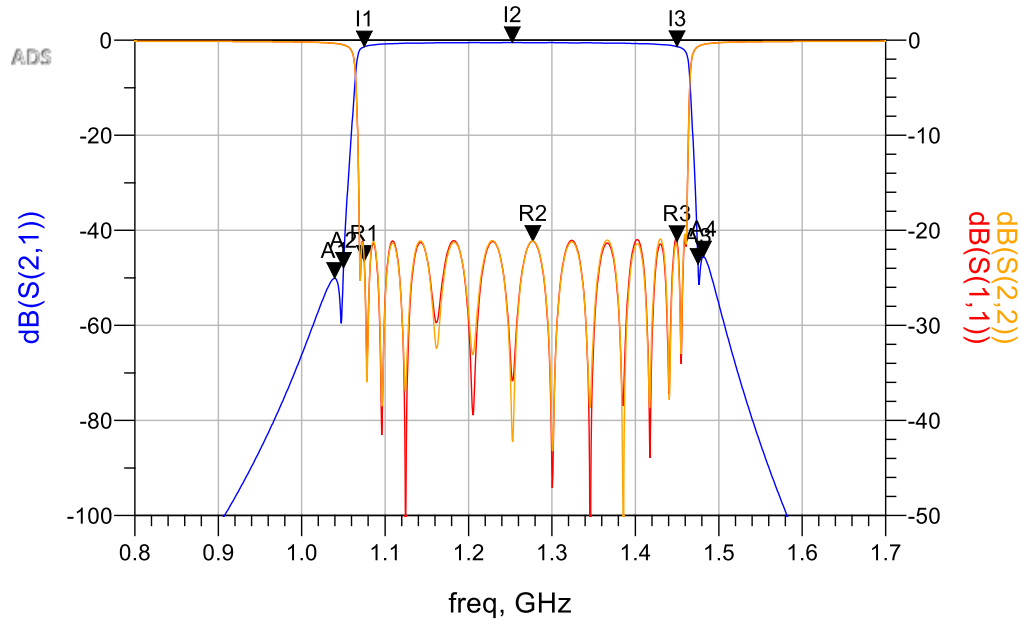
■ Simulation Curve1

Insertion loss
[dB]

I1
freq=1.0750GHz
dB(S(2,1))=-1.3922

I2
freq=1.2525GHz
dB(S(2,1))=-0.5089
Max

I3
freq=1.4500GHz
dB(S(2,1))=-1.3663



Attenuation [dB]

A1
freq=1.0395GHz
dB(S(2,1))=-50.0934

A2
freq=1.0500GHz
dB(S(2,1))=-47.9714

A3
freq=1.4750GHz
dB(S(2,1))=-47.1644

A4
freq=1.4815GHz
dB(S(2,1))=-45.5820

Return loss
[dB]

R1
freq=1.0750GHz
dB(S(1,1))=-23.2622

R2
freq=1.2770GHz
dB(S(1,1))=-21.1568

R3
freq=1.4500GHz
dB(S(1,1))=-21.1780