

PRODUCT SPECIFICATION FOR INFORMATION

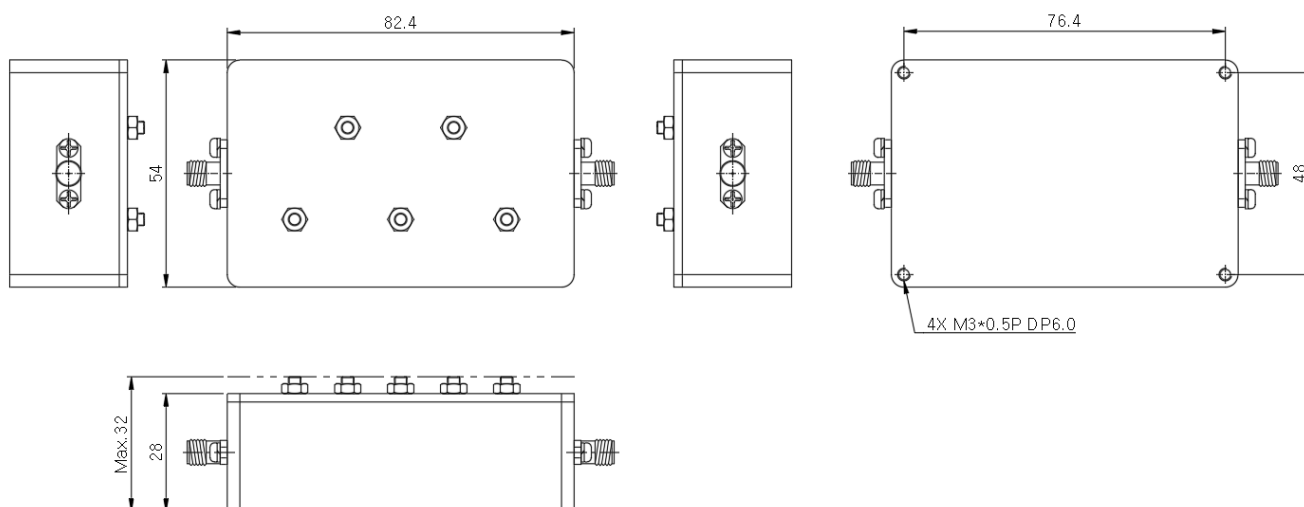
PRELIMINARY SPECIFICATION

Product Name : Cavity Band Pass Filter

Part No : MBP-C1592.5_145MS-A-R0

	Rev. No.	Description	Date	Author	Final Approver
1	R0	Draft	2024.11.06	Jeffrey Chung	Michael Jeon

■ Mechanical Drawing



■ Electrical Specification

Parameter	Specification	Remark
1. Center Frequency	1592.5MHz	OK
2. Bandwidth [BW]	$F_c \pm 72.5\text{MHz}$ [1520~1665MHz]	OK
3. Insertion Loss in BW	1.0dB Max.	OK
4. Return Loss	18dB Min.	Proposal
5. Rejections	40dB Min @ 1350MHz	OK
	40dB Min @ 1800MHz	OK
6. Impedance	50Ohm	OK
7. Operating Temperature	-10°C ~ +70°C	OK
8. Power Handling	5W Max.	OK
9. Size (W × D × H)	82.4 x 54.0 x 28.0 mm (Without Connector & screw)	Proposal
10. Connector	SMA (F)	OK
11. Finish	Black	TBD

Remarks: This is a preliminary datasheet for reference.

Simulation Data

Insertion loss
[dB]

I1
freq=1.5200GHz
dB(S(2,1))=-0.3453

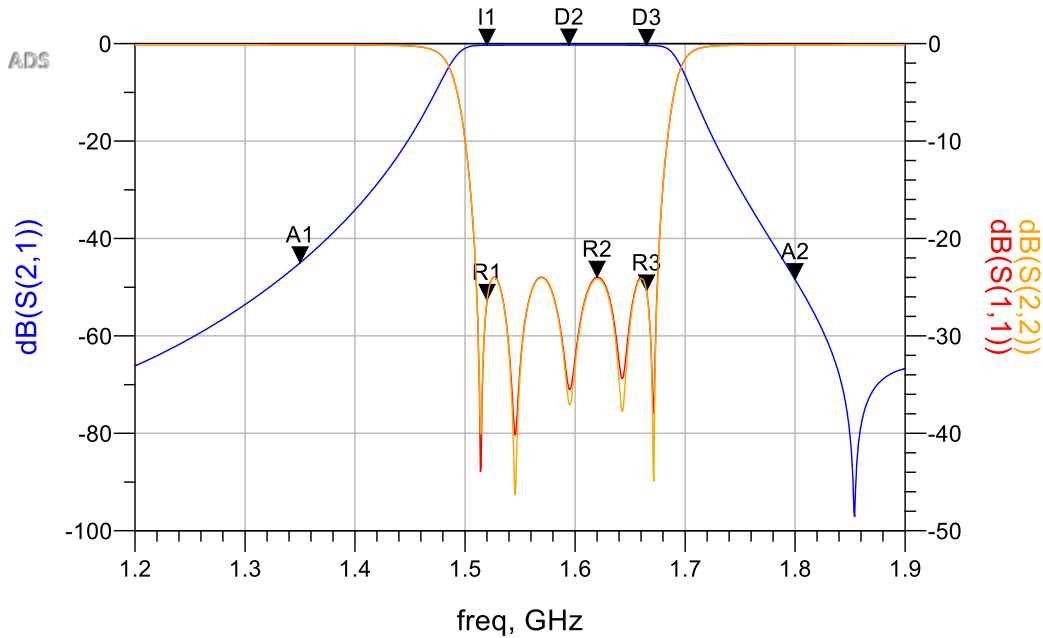
D2
freq=1.5945GHz
dB(S(2,1))=-0.2794
Max

D3
freq=1.6650GHz
dB(S(2,1))=-0.3698

Rejection [dB]

A1
freq=1.3500GHz
dB(S(2,1))=-45.0071

A2
freq=1.8000GHz
dB(S(2,1))=-48.4562



Return loss
[dB]

R1
freq=1.5200GHz
dB(S(1,1))=-26.3599

R2
freq=1.6200GHz
dB(S(1,1))=-23.9837

R3
freq=1.6650GHz
dB(S(1,1))=-25.3959