

PRODUCT SPECIFICATION FOR INFORMATION

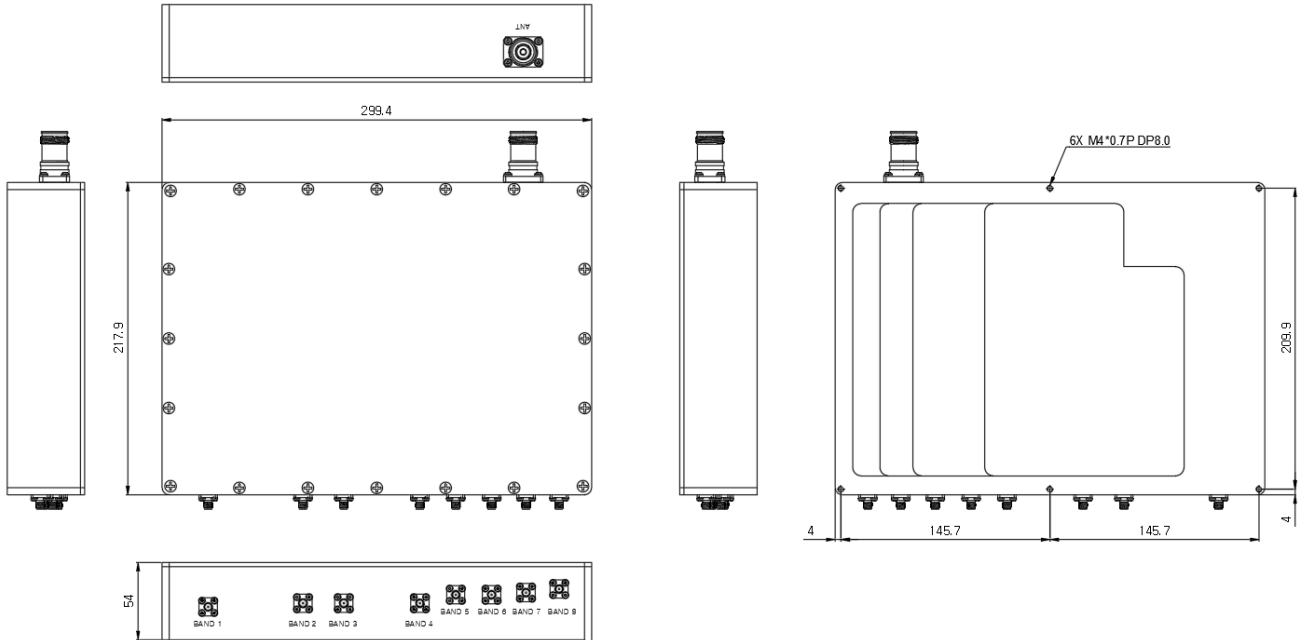
PRELIMINARY SPECIFICATION

Product Name : 8-plexer

Part No : MMP-8COM_420-5900MS-A-R0

	Rev. No.	Description	Date	Author	Final Approver
1	R0	Draft	2024.11.22	Jeffrey Chung	Michael Jeon

■ Mechanical Drawing



■ Electrical Specification

Parameter		Specification	Remark
1. Pass Band Frequency	Band1	420MHz~450MHz	OK
	Band2	700MHz~870MHz	OK
	Band3	902MHz~960MHz	OK
	Band4	1100MHz~1610MHz	OK
	Band5	2400MHz~2700MHz	OK
	Band6	1805MHz~2170MHz	OK
	Band7	3400MHz~3800MHz	OK
	Band8	4900MHz~5900MHz	OK
2. Insertion Loss	Band1	0.7dB Max.	Proposal
	Band2	0.7dB Max.	Proposal
	Band3	0.7dB Max.	Proposal
	Band4	0.7dB Max.	Proposal
	Band5	0.7dB Max.	Proposal
	Band6	0.7dB Max.	Proposal
	Band7	0.7dB Max.	Proposal
	Band8	0.7dB Max.	Proposal
3. RF Power	Band1	20 W Max.	OK
	Band2	20 W Max.	OK
	Band3	50 W Max.	OK
	Band4	50 W Max.	OK
	Band5	50 W Max.	OK
	Band6	50 W Max.	OK
	Band7	20 W Max.	OK
	Band8	20 W Max.	OK
4. Return Loss		15dB Min.	OK
5. Isolation		50dB Min.	OK
6. Dimension		299.4 x 217.9 x 54.0 mm	Proposal
7. Impedance		50Ω	OK
8. Operating temp		-20 ~ +65 °C	OK
9. Application		Outdoor IP67	OK
10. Connector		ANT port : 4.3-10(F) Outputs : SMA (F)	OK
11. Finish		Black Paint	OK

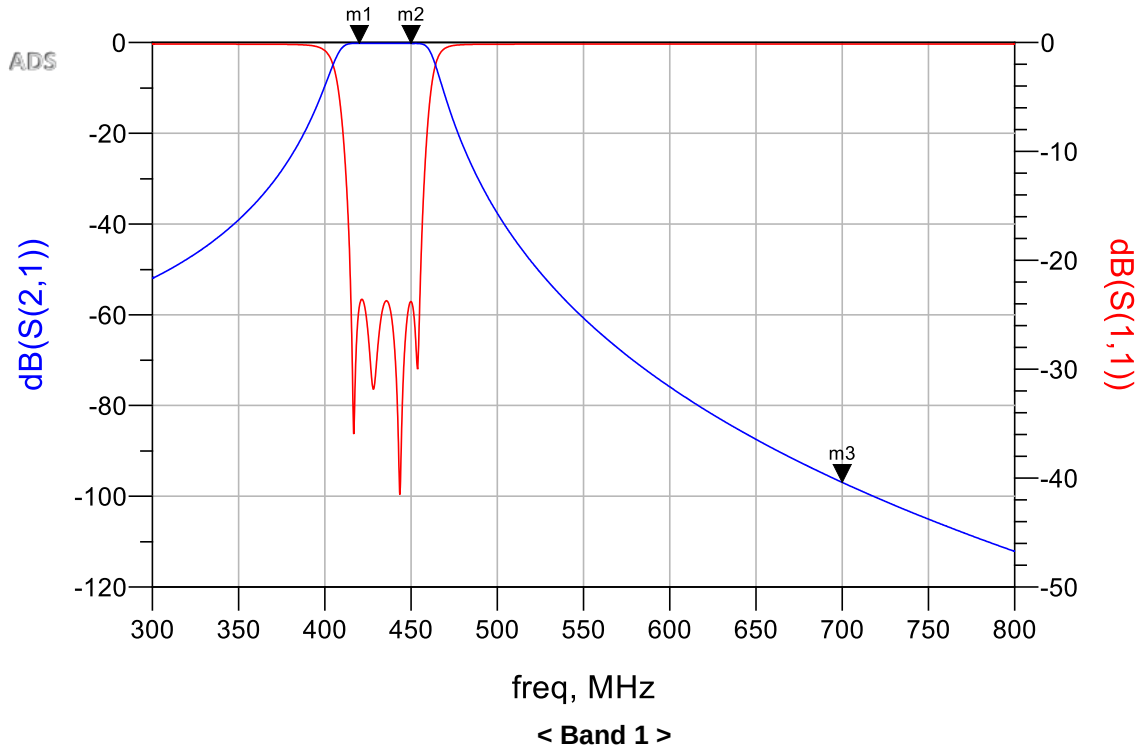
Remarks: This is a preliminary datasheet for reference. The final performance is subject to the sample.

■ Simulation Curve

m1
freq=420.00MHz
dB(S(2,1))=-0.2168

m2
freq=450.00MHz
dB(S(2,1))=-0.2264

m3
freq=700.00MHz
dB(S(2,1))=-96.9530

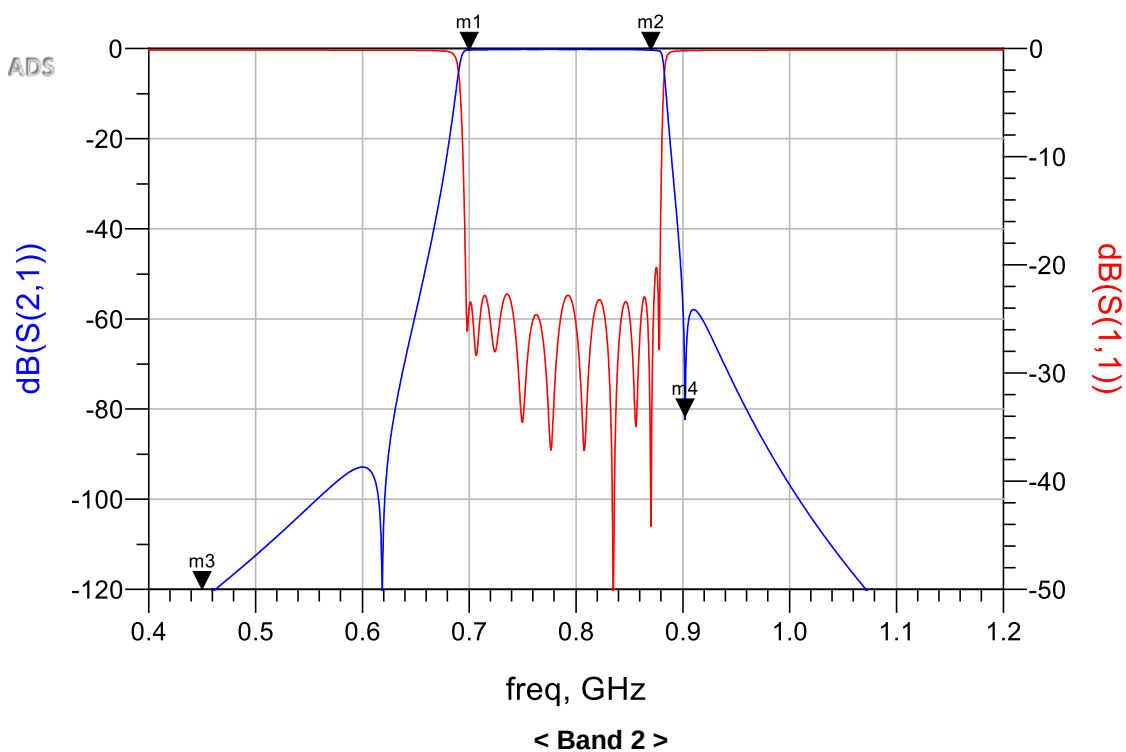


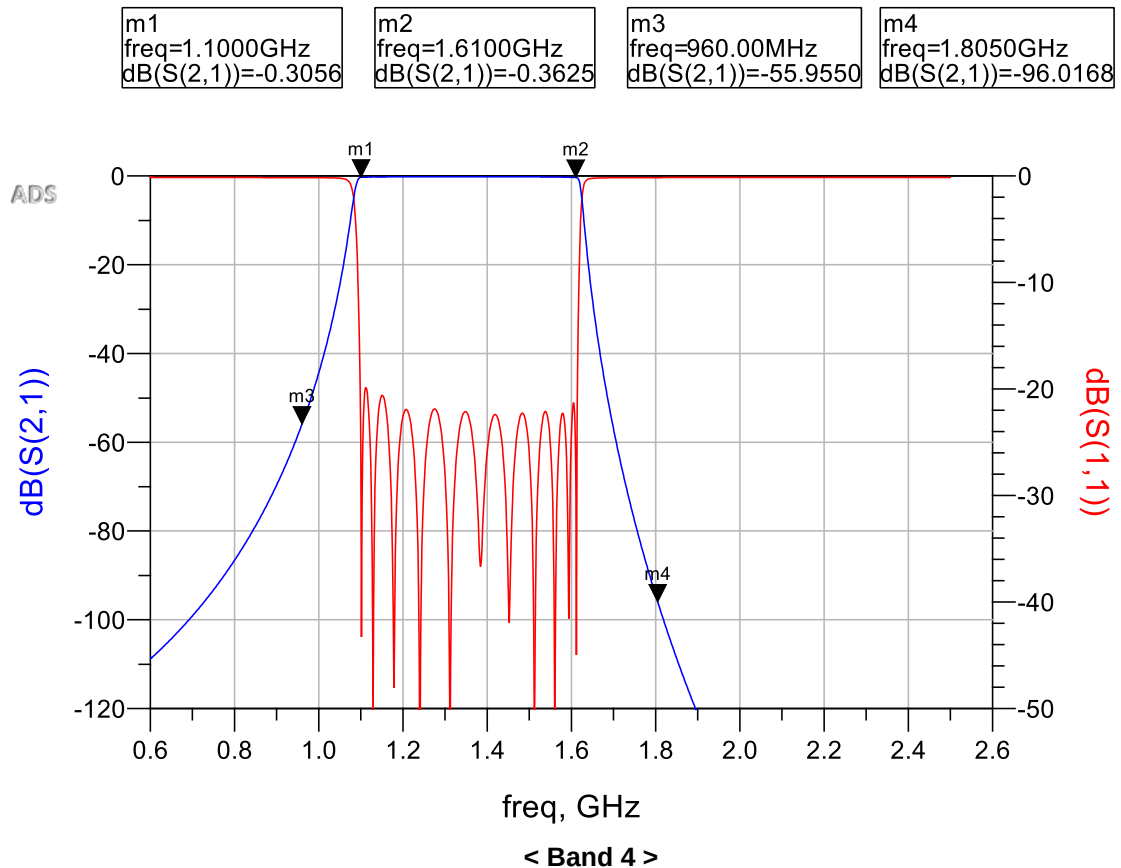
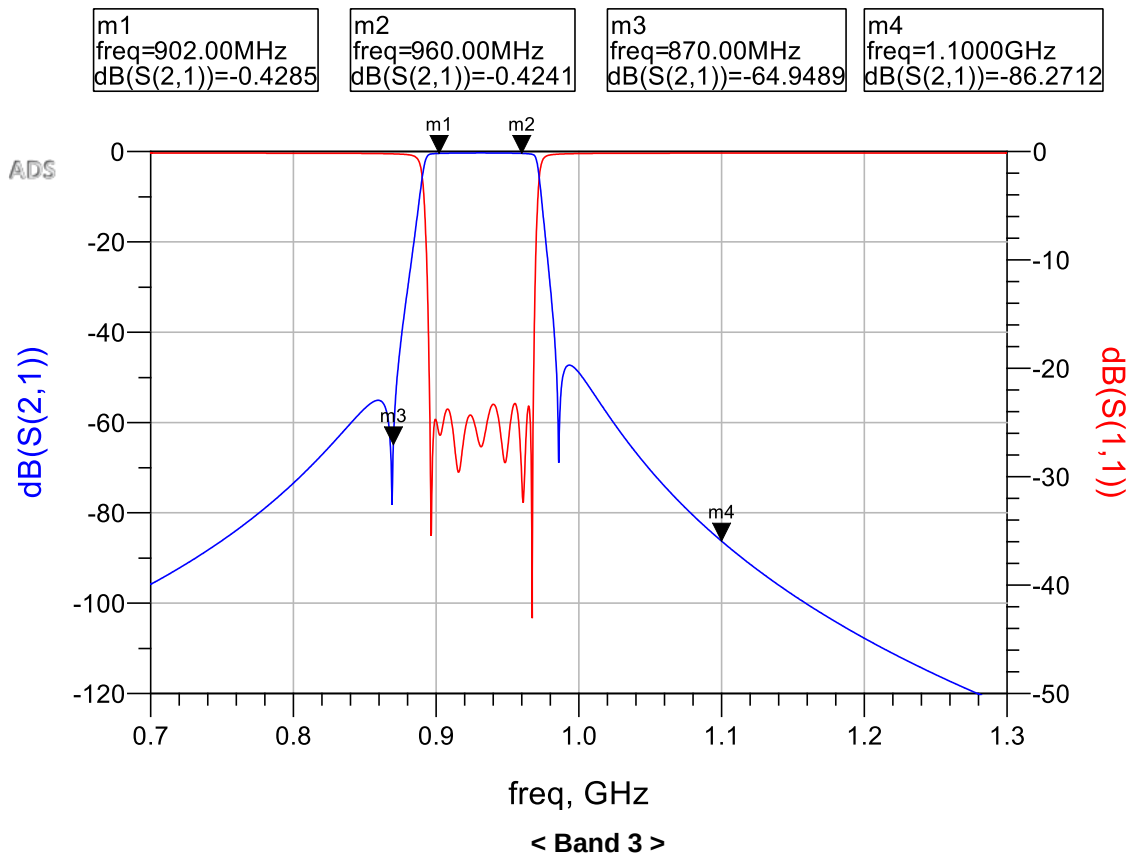
m1
freq=700.00MHz
dB(S(2,1))=-0.3669

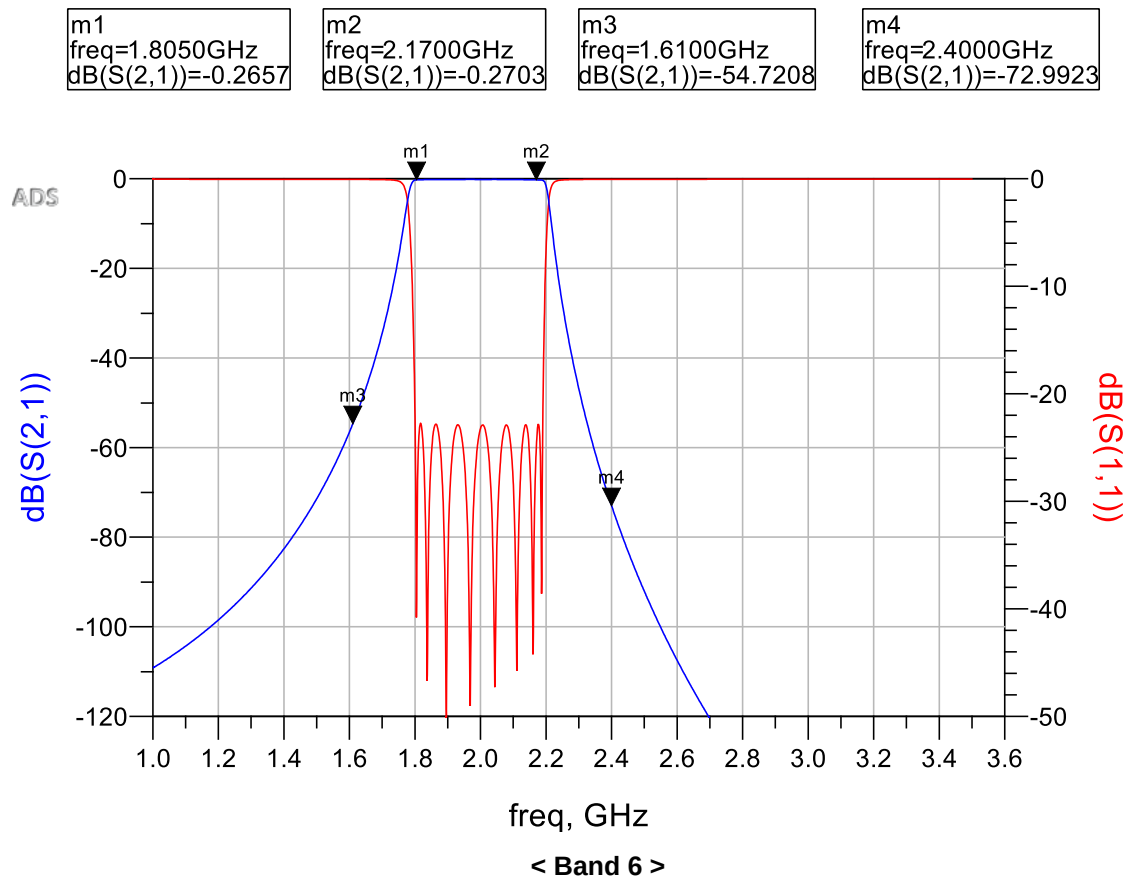
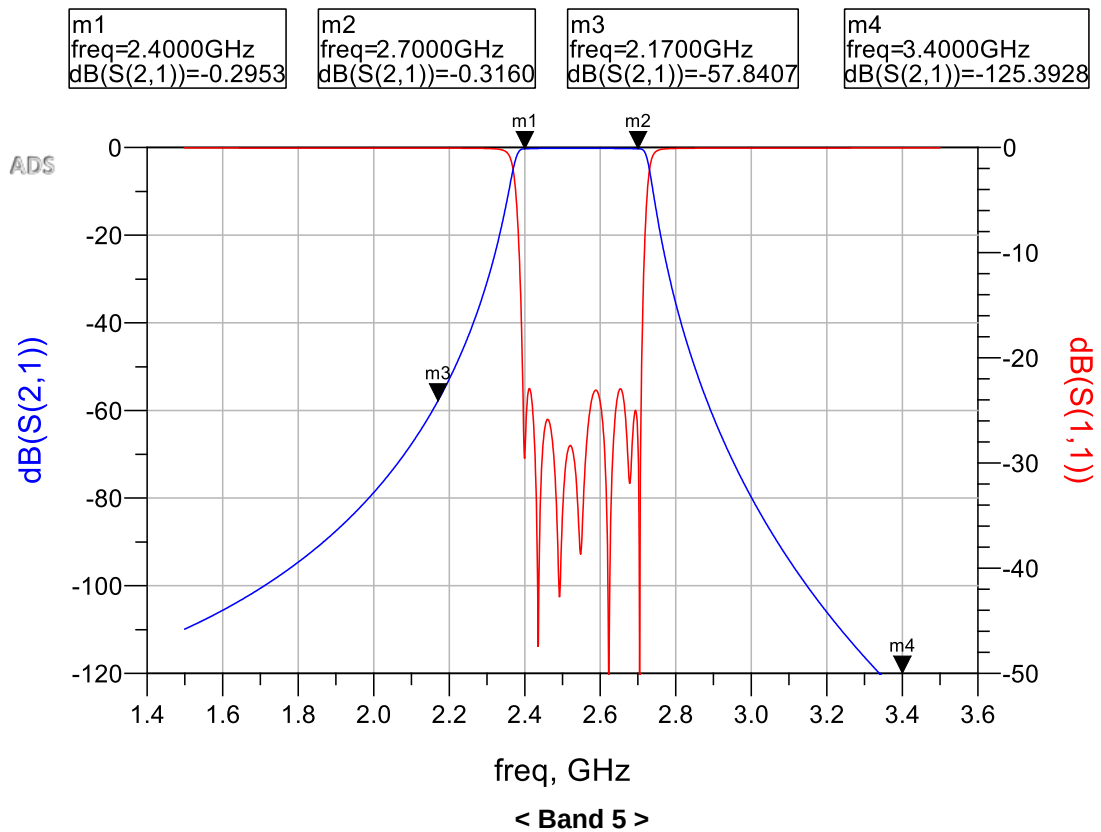
m2
freq=870.00MHz
dB(S(2,1))=-0.3535

m3
freq=450.00MHz
dB(S(2,1))=-122.3633

m4
freq=902.00MHz
dB(S(2,1))=-81.7146





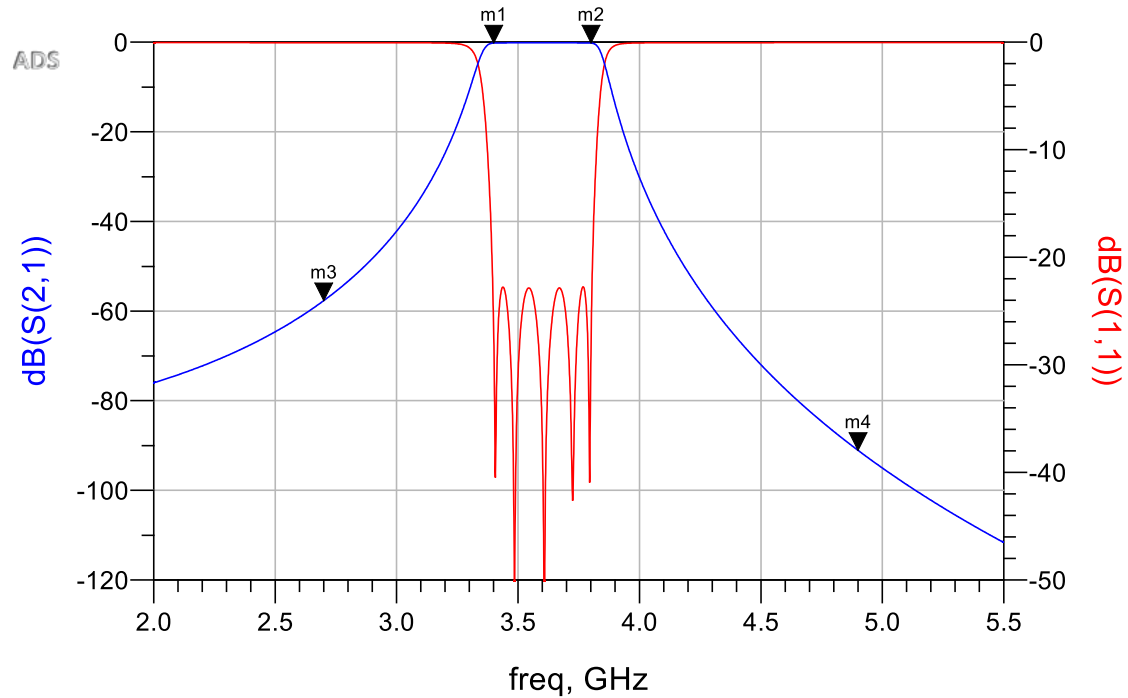


m1
freq=3.4000GHz
dB(S(2,1))=-0.2022

m2
freq=3.8000GHz
dB(S(2,1))=-0.2213

m3
freq=2.7000GHz
dB(S(2,1))=-57.6800

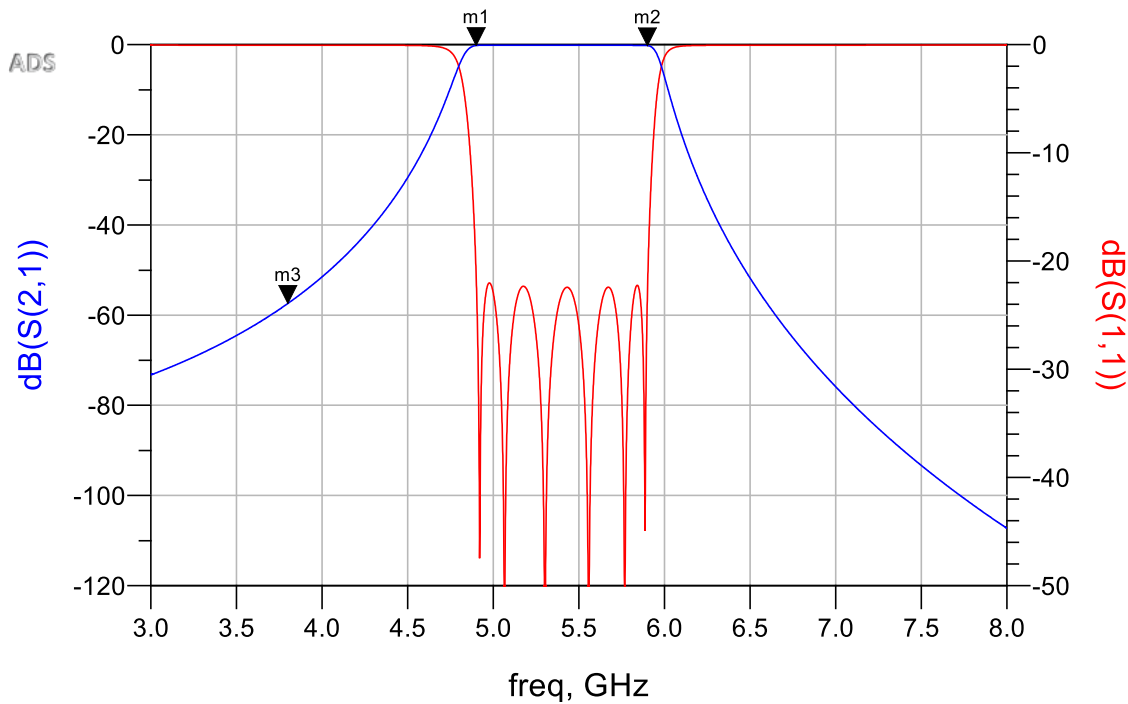
m4
freq=4.9000GHz
dB(S(2,1))=-91.0924

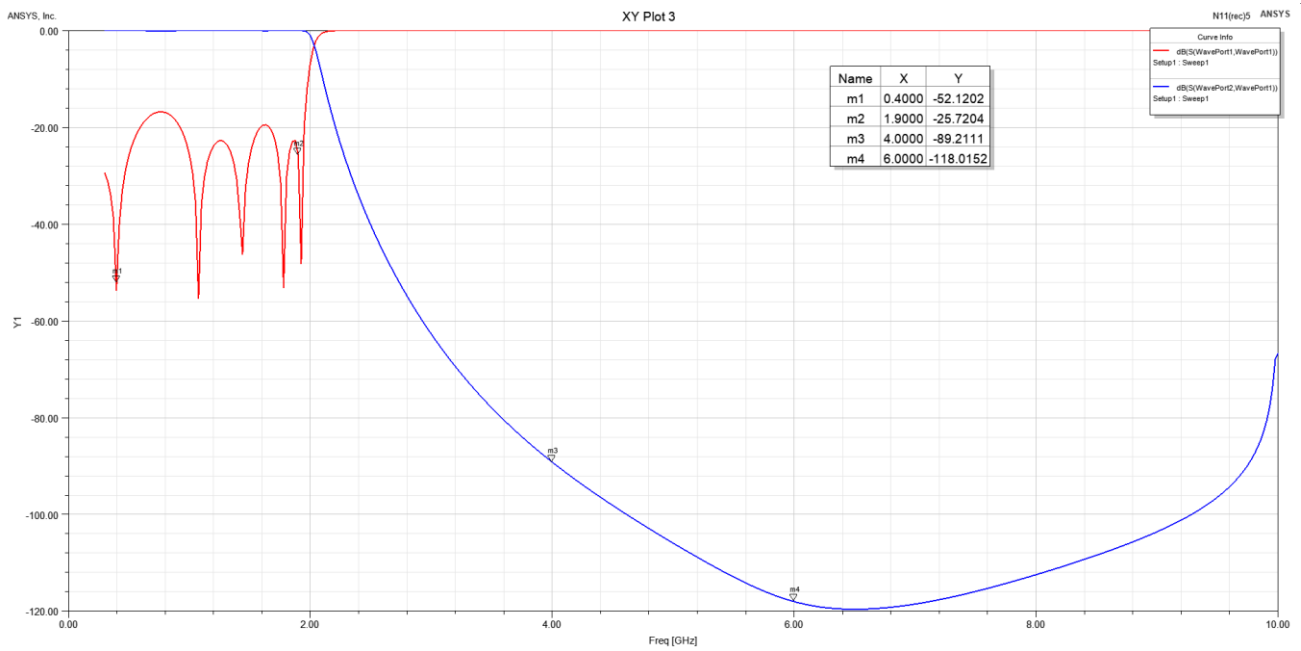


m1
freq=4.9000GHz
dB(S(2,1))=-0.2108

m2
freq=5.9000GHz
dB(S(2,1))=-0.2294

m3
freq=3.8000GHz
dB(S(2,1))=-57.4199





LPF to use for Band1~4