

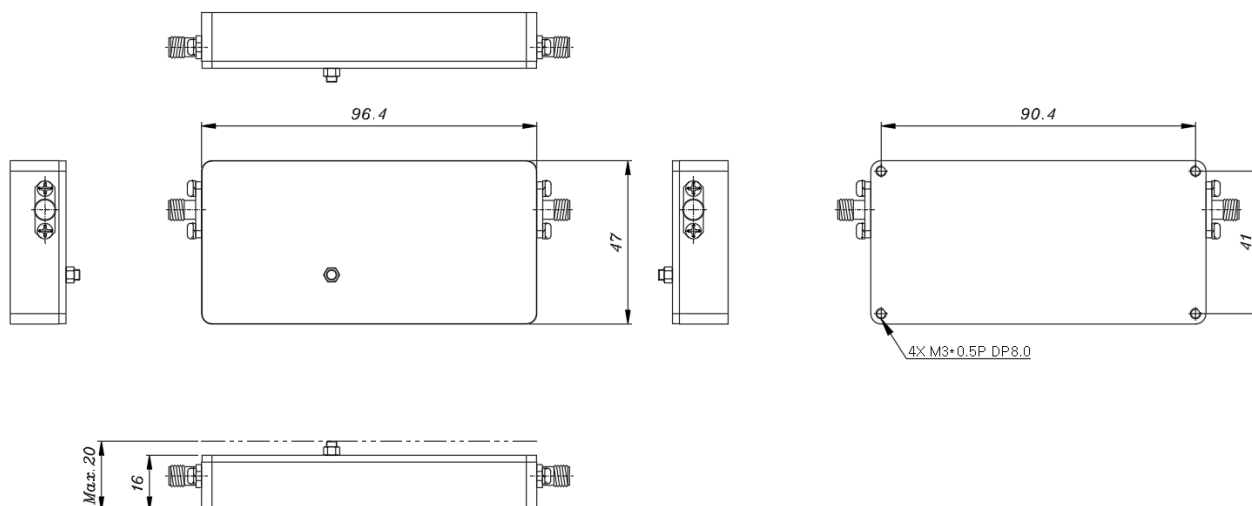
PRODUCT SPECIFICATION FOR INFORMATION

PRELIMINARY SPECIFICATION

Product Name : Band Pass Filter
Part No : MBP-C3800_200MS-A-R0

	Rev. No.	Description	Date	Author	Final Approver
1	R0	Draft	2025.04.23	Jeffrey Chung	Michael Jeon

■ Mechanical Drawing



■ Electrical Specification

Parameter	Specification	Remark
1. Center Frequency	3800MHz	OK
2. Bandwidth [BW@1dB]	Fc ±100MHz[3700~3900MHz]	OK
3. Insertion Loss in BW	0.8dB Max.	OK
4. Ripple (F0±25MHz)	0.2dB Max.	OK
5. Return Loss	15.0dB min	OK
6. Rejections	60dB Min @ DC~3400MHz	OK
	60dB Min @ 4200~10000MHz	OK
7. Group Delay Variation(F0±25MHz)	46ps (typ), 60ps (full temp.)	Proposal
8. Impedance	50Ohm	OK
9. Operating Temperature	-20°C ~ +60°C	OK
10. Power Handling	12W Max.	OK
11. Size (W × D × H)	96.4 x 47.0 x 20.0 mm	Proposal
12. Connector	SMA (F)	OK
13. Finish	Black epoxy	Proposal

Remarks: This is a preliminary datasheet for reference.

Simulation Data

Insertion loss
[dB]

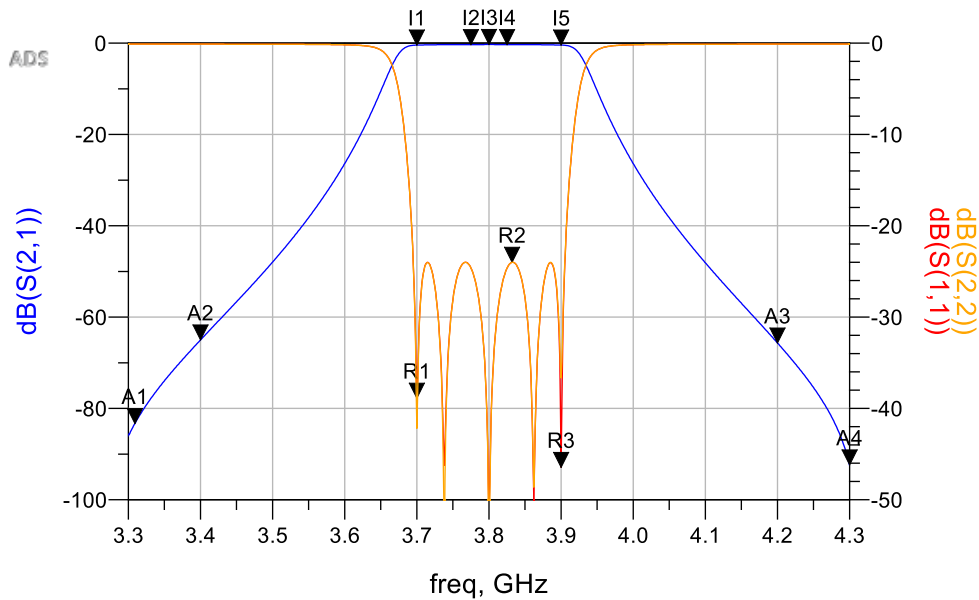
I1
freq=3.7000GHz
dB(S(2,1))=-0.4231

I2
freq=3.7750GHz
dB(S(2,1))=-0.3324

I3
freq=3.8000GHz
dB(S(2,1))=-0.3137

I4
freq=3.8250GHz
dB(S(2,1))=-0.3323

I5
freq=3.9000GHz
dB(S(2,1))=-0.4232



IL_max
-0.42

IL_Ripple
-0.11

Attenuation [dB]

A1
freq=3.3090GHz
dB(S(2,1))=-83.3054

A2
freq=3.4000GHz
dB(S(2,1))=-65.0078

A3
freq=4.2000GHz
dB(S(2,1))=-65.6832

A4
freq=4.3000GHz
dB(S(2,1))=-92.3982

Return loss
[dB]

R1
freq=3.7000GHz
dB(S(1,1))=-38.8816

R2
freq=3.8320GHz
dB(S(1,1))=-24.0034

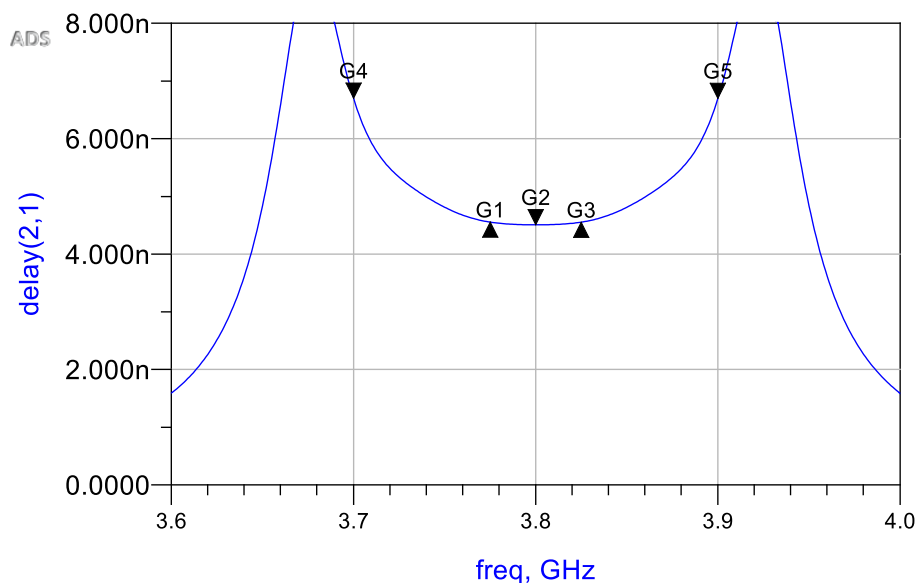
R3
freq=3.9000GHz
dB(S(1,1))=-46.4536

Group delay
[ns]

G1
ind Delta=25.000M
dep Delta=46.547p
Delta Mode ON

G2
freq=3.8000GHz
delay(2,1)=4.5061n

G3
ind Delta=25.000M
dep Delta=46.286p
Delta Mode ON



G4
freq=3.7000GHz
delay(2,1)=6.6990n

G5
freq=3.9000GHz
delay(2,1)=6.6962n