

PRODUCT SPECIFICATION FOR INFORMATION

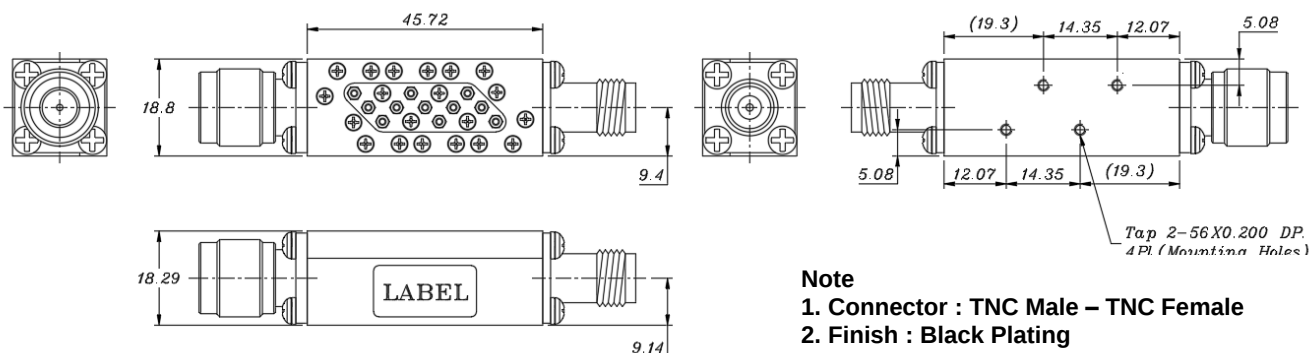
PRELIMINARY SPECIFICATION

Product Name : Band Pass Filter
Part No : MBP-C4100_500MT-A-R0

■ History List

No.	Rev. No.	Description	Date	Author	Final Approver
1	R0	Draft	2023.10.27	Lee Seung Moon	Michael Jeon

■ Mechanical Drawing



■ Electrical Specification

Parameter		Specification	Remark
1. Frequency Range		3850 ~ 4350MHz	
2. Insertion Loss		0.8dB Max., 0.7(Typ.)	Passband
3. Ripple		± 0.2dB Max.	Passband
4. Return Loss(VSWR)		16dB Min., (1.38 : 1, Max.)	Passband
5. Attenuation	DC to 2000MHz	80dB Min., 90dB(Typ.)	
	@2000 to 2700MHz	80dB Min., 85dB(Typ.)	
	@2700 to 3380MHz	50dB Min., 55dB(Typ.)	
	@4820 to 6000MHz	50dB Min., 55dB(Typ.)	
	@6000 to 12000MHz	60dB Min., 80dB(Typ.)	
6. RF Power Capability CW		5W Max.	
7. Operating Temperature		-40°C ~ +85°C	
8. Storage Temperature		-50°C ~ +125°C	
9. Humidity (Non-condensing)		95% Max. Designed to meet: MIL-STD-810G, Method 507.5	
10. Operating Altitude		35,000 Feet	
11. Vibration and shock		Vibration 6.06 gRMS Designed to meet: MIL-STD-810G, Method 514.6	
12. Size(mm)		45.72 x 18.8 x 18.29	Without Connector

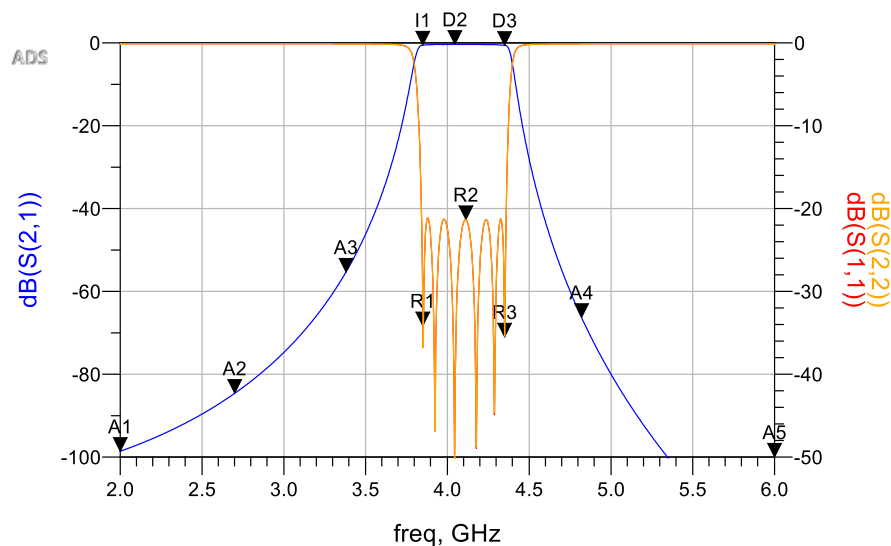
■ Simulation Curve

Insertion loss
[dB]

I1
freq=3.8500GHz
dB(S(2,1))=-0.5171

D2
freq=4.0460GHz
dB(S(2,1))=-0.3546
Max

D3
freq=4.3500GHz
dB(S(2,1))=-0.5736



Attenuation [dB]

A1
freq=2.0000GHz
dB(S(2,1))=-98.6029

A2
freq=2.7000GHz
dB(S(2,1))=-84.6066

A3
freq=3.3800GHz
dB(S(2,1))=-55.3293

A4
freq=4.8200GHz
dB(S(2,1))=-66.2919

A5
freq=6.0000GHz
dB(S(2,1))=-126.8588

Return loss
[dB]

R1
freq=3.8500GHz
dB(S(1,1))=-34.1515

R2
freq=4.1130GHz
dB(S(1,1))=-21.3360

R3
freq=4.3500GHz
dB(S(1,1))=-35.4935