PRODUCT SPECIFICATION FOR INFORMATION

PRELIMINARY SPECIFICATION

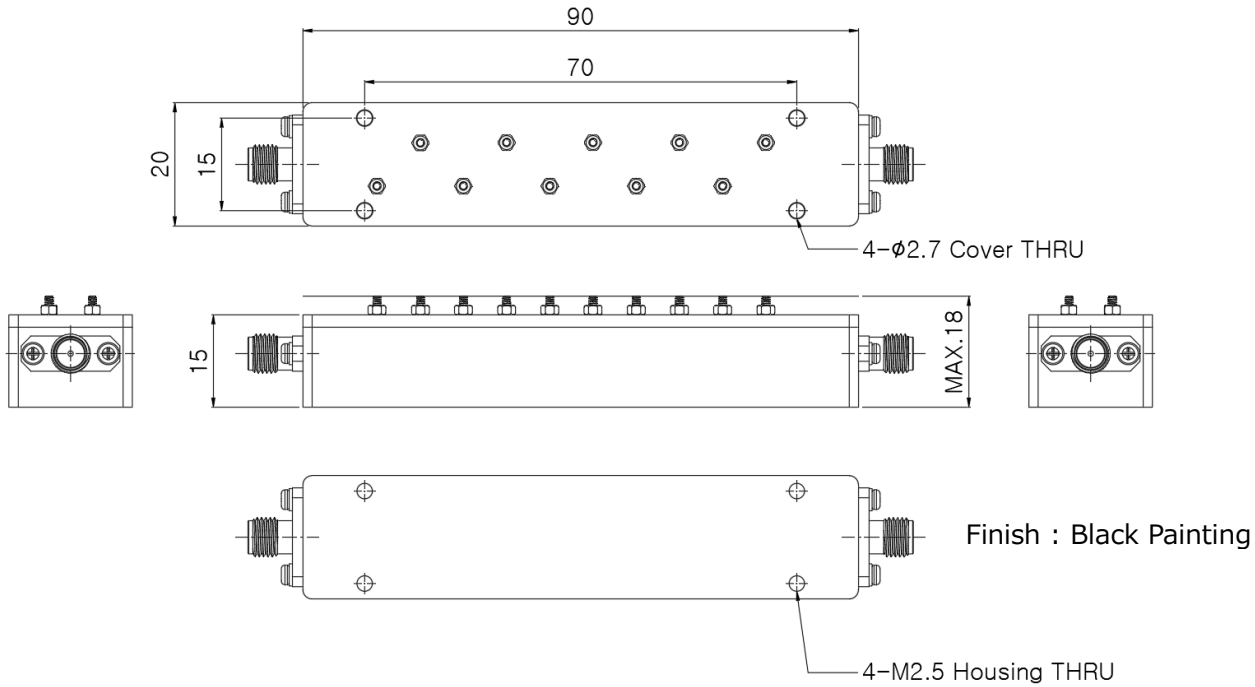
Product Name : Cavity Band Pass Filter

Part No : MBP-C4650-1300MS-A-R1

■ **History List**

No.	Rev. No.	Description	Date	Author	Final Approver
1	R0	Draft	2023.02.22	Jeffrey Jeong	Michael Jeon
2	R1	Added mounting holes M2.5 Thru	2023.03.08	Jeffrey Jeong	Michael Jeon
3					
4					
5					
6					

■ Mechanical Drawing



■ Electrical Specification

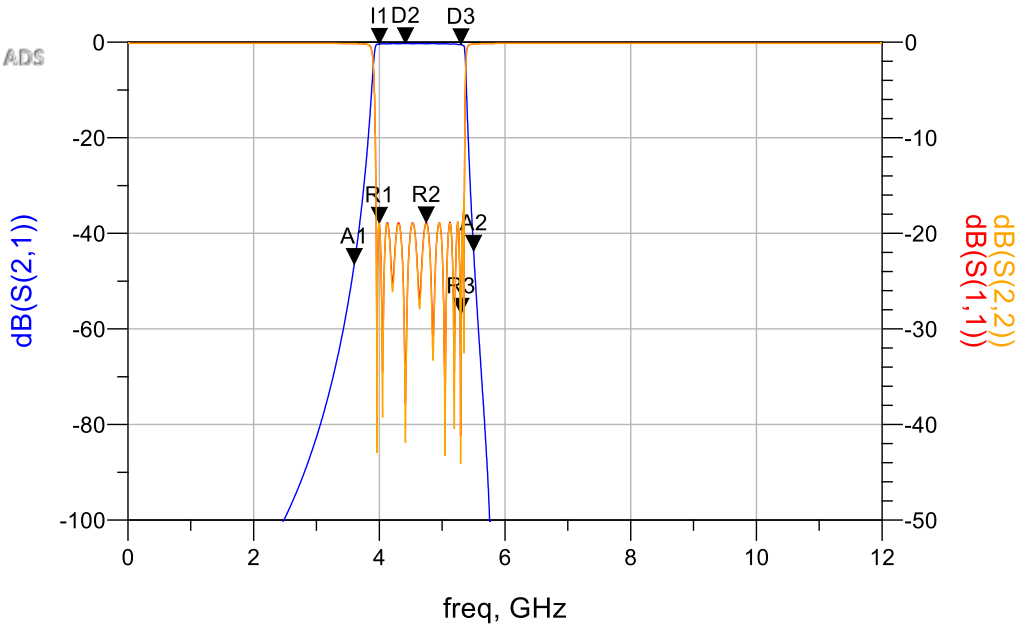
Parameter	Specification	Remark
1. Center Frequency	4650MHz	
2. Frequency Range	Fo ±650[4000 ~ 5300]MHz	
3. Insertion Loss	0.7dB Max.	
4. VSWR	1.5 : 1 Max.	
5. Rejection	40dB Min @ DC ~ 3600MHz 40dB Min @ 5500 ~ 12000MHz	
6. Power Handling	10W Max	
7. Impedance	50Ω	
8. Size	90 X 20 X 15mm without T/S	
9. Weight	300g Max.	
10. Connectors	SMA(F)	
11. Operating Temperature	-40℃ ~ +71℃	
12. Explosive Atmosphere	MIL-STD-810F Method 511.4 Proc I	
13. Shock Transportation	20g/11mSec MIL-STD-810F Method 515.5 Proc I	
14. Shock and Vibration	MIL-STD-810F in figure 541.5 Cat 13 Proc I figures 514.5C-1	
15. Operating Altitude	15K Feet	
16. Storage Altitude	40K Feet	
17. MTBF	20,000HRS Min	

※It is subjected to change with prior notice.

■ Simulation Curve

Insertion loss [dB]

I1	D2	D3
freq=4.0000GHz dB(S(2,1))=-0.4331	freq=4.4170GHz dB(S(2,1))=-0.2782 Max	freq=5.3000GHz dB(S(2,1))=-0.5200



Rejection [dB]

A1	A2
freq=3.6000GHz dB(S(2,1))=-46.4922	freq=5.5000GHz dB(S(2,1))=-43.7211

Return loss [dB]

R1	R2	R3
freq=4.0000GHz dB(S(1,1))=-18.9216	freq=4.7440GHz dB(S(1,1))=-18.8872	freq=5.3000GHz dB(S(1,1))=-28.4418