

PRODUCT SPECIFICATION FOR INFORMATION

FINAL SPECIFICATION

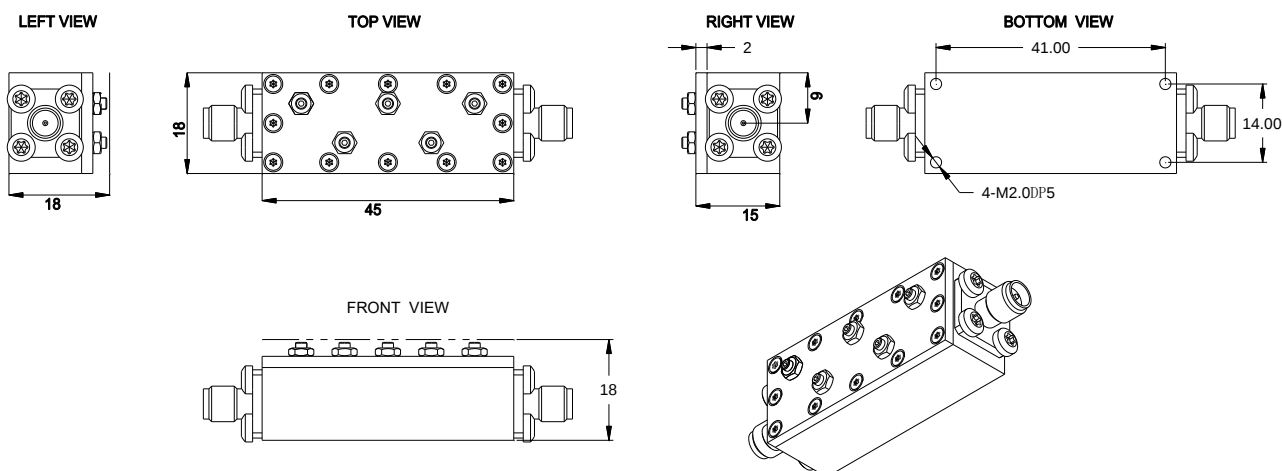
Product Name : ADT Cavity Band Pass Filter

Part No : MBP-C2852.5_95MS-B-R1

■ History List

No.	Rev. No.	Description	Date	Author	Final Approver
1	R0	Draft	2023.10.18	Jeffrey Jeong	Michael Jeon
2	R1	Rejection changed	2023.11.27	Jeffrey Jeong	Michael Jeon
3		Mounting holes` position changed 41 X 14mm	2024.03.04	Jeffrey Jeong	Michael Jeon
4					
5					
6					

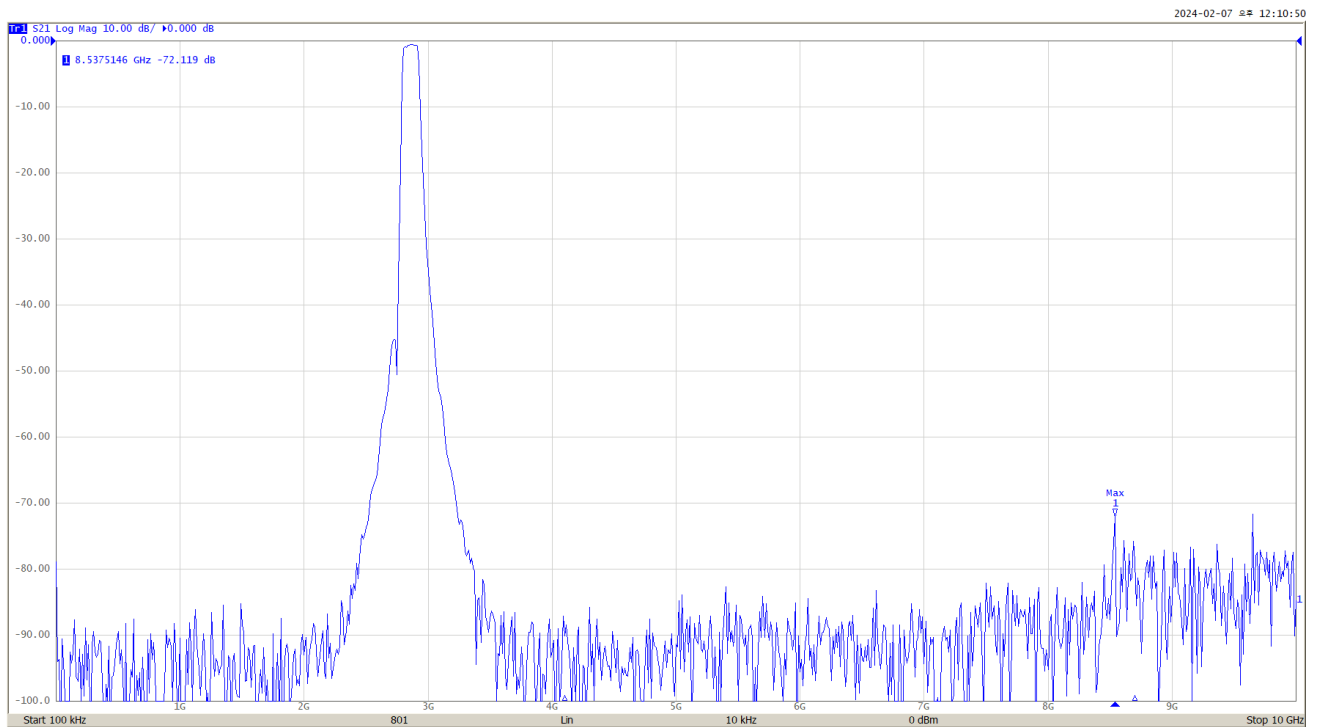
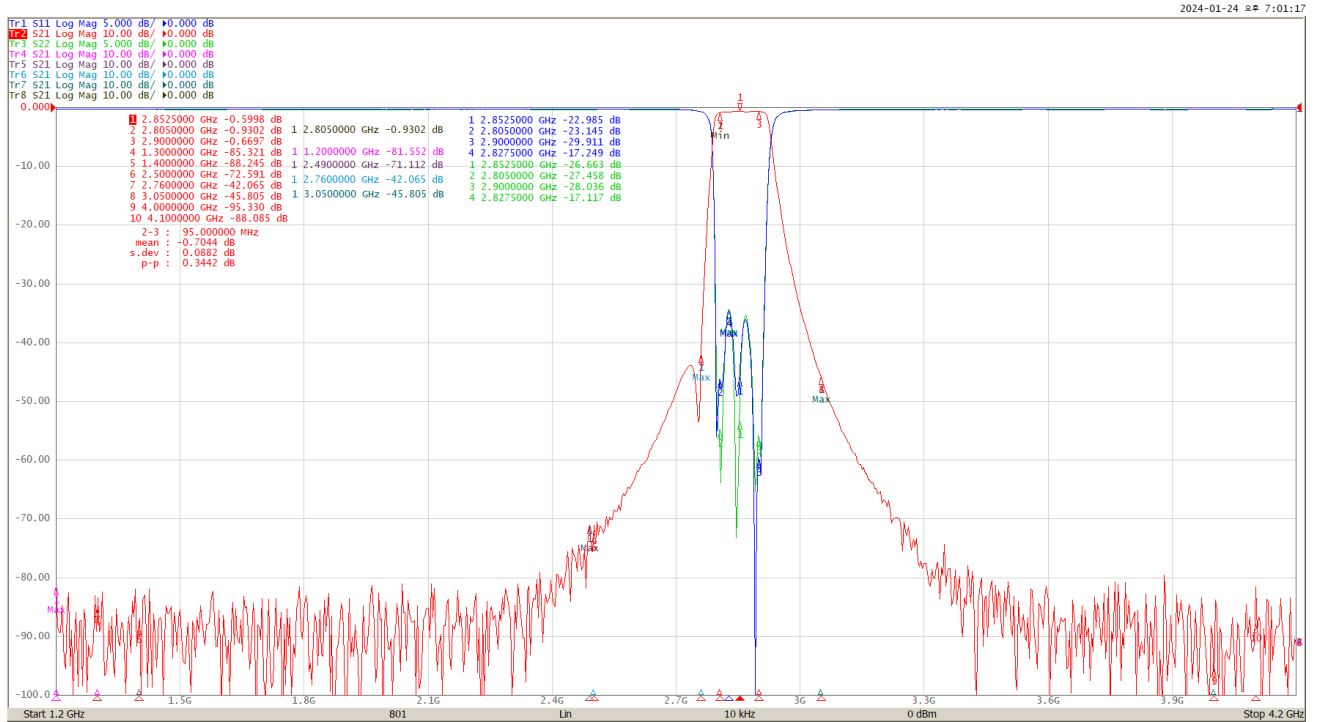
■ Mechanical Drawing



■ Electrical Specification

Parameter	Specification	Remark
1. Center Frequency	2852.5MHz	
2. Bandwidth	95MHz [2805 ~ 2900MHz]	
3. Insertion Loss in BW	1.0dB Max.	
4. Ripple in BW	0.5dB Max	
5. Return Loss in BW	15dB Min.	
6. Attenuation[Absolute Value]	70dB min @ DC ~ 1300MHz 40dB min @ 1400 ~ 2500MHz 35dB min @ 2500 ~ 2760MHz 40dB min @ 3050 ~ 4000MHz 70dB min @ 4100 ~ 8700MHz	40dB typ. @ 2500 ~ 2760MHz @ room temperature only.
7. Power Handling Avg, Peak	36dBm Max.	
8. In/Out Impedance	50Ω	
9. Temperature Range	-40°C ~ +85°C	
10. In/Out interface	SMA(F) X 2	O-Ring
11. Weight	35Grms Max.	
12. Dimension[WxLxH]	45.0 X 18.0 X 18mm Max	Excluding connectors

Test Curves



■ Environmental Qualification Standard

Parameter	Specification
Temperature High	Operating: +85°C MIL-STD-810F, method 501.4, proc. II
Temperature Low	Operating: -40°C MIL-STD-810F, method 502.4, proc. II
Humidity	Temperature: +30°C - +60°C RH: 95% MIL-STD-810F, method 507.4, procedure I
Salt fog	Salt Solution 6.5-7.2 pH at 35°C MIL-STD-810F, method 509.4
Fungus	MIL-STD-810G, method 508.5. (or accordance MIL-HDBK-454B, Guideline 4)
Rain	Rainfall rate of 100 [mm/hour] MIL-STD-810F, method 506.4, proc. I
Vibration (Transportation)	MIL-STD-810G method 514.6 Figure 514.5C-9 and in accordance with Table 3 and Figure 9
Temperature/Altitude	Operation: 35,000 feet Storage : 40,000 feet