

## PRODUCT SPECIFICATION FOR INFORMATION

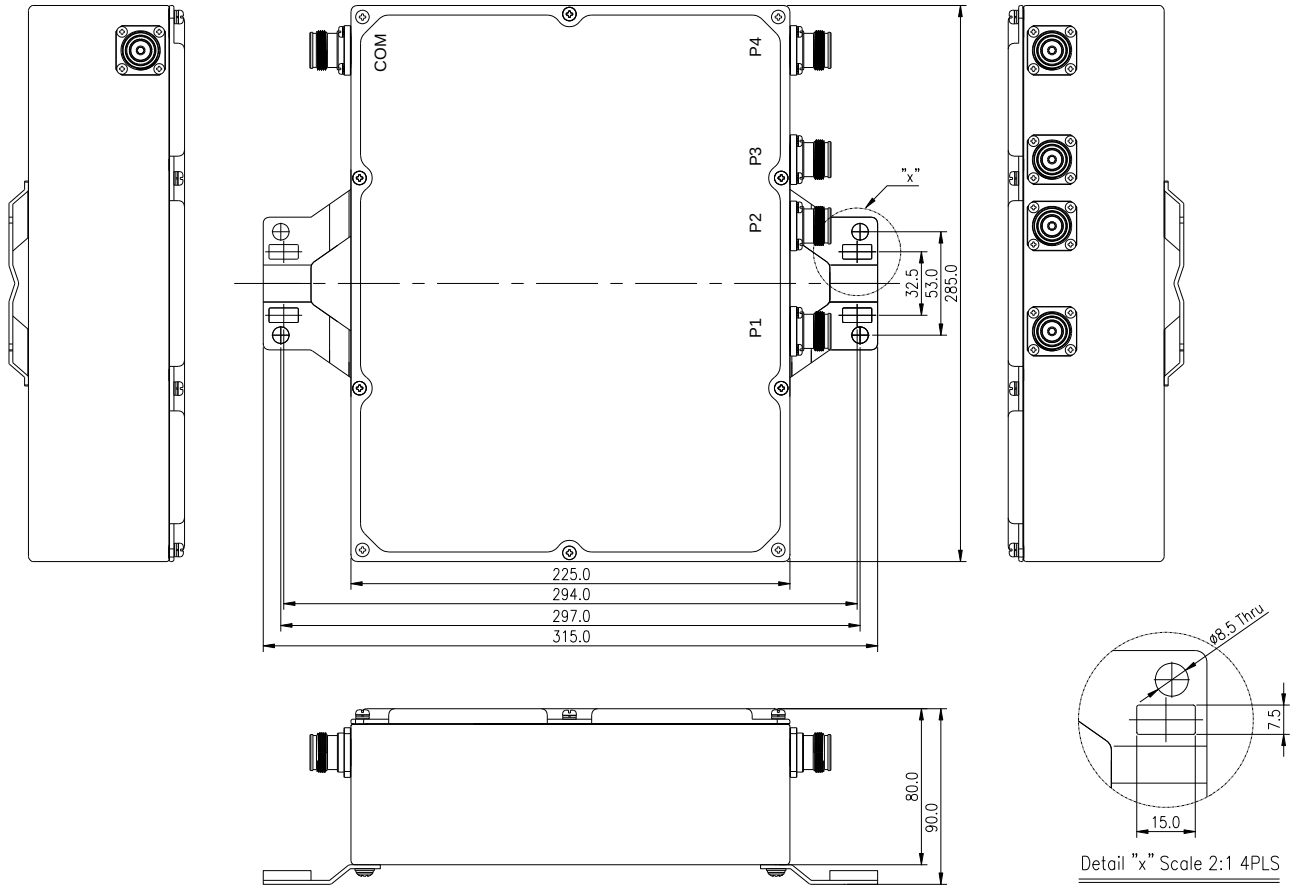
PRELIMINARY SPECIFICATION

**Product Name : Multiplexer**

**Part No : MMP-4COM\_400-6000MD-A-R0**

|   | Rev. No. | Description | Date       | Author        | Final Approver |
|---|----------|-------------|------------|---------------|----------------|
| 1 | R0       | Draft       | 2024.05.02 | Jeffrey Chung | Michael Jeon   |
|   |          |             |            |               |                |
|   |          |             |            |               |                |

## ■ Mechanical Drawing



Detail "x" Scale 2:1 4PLS

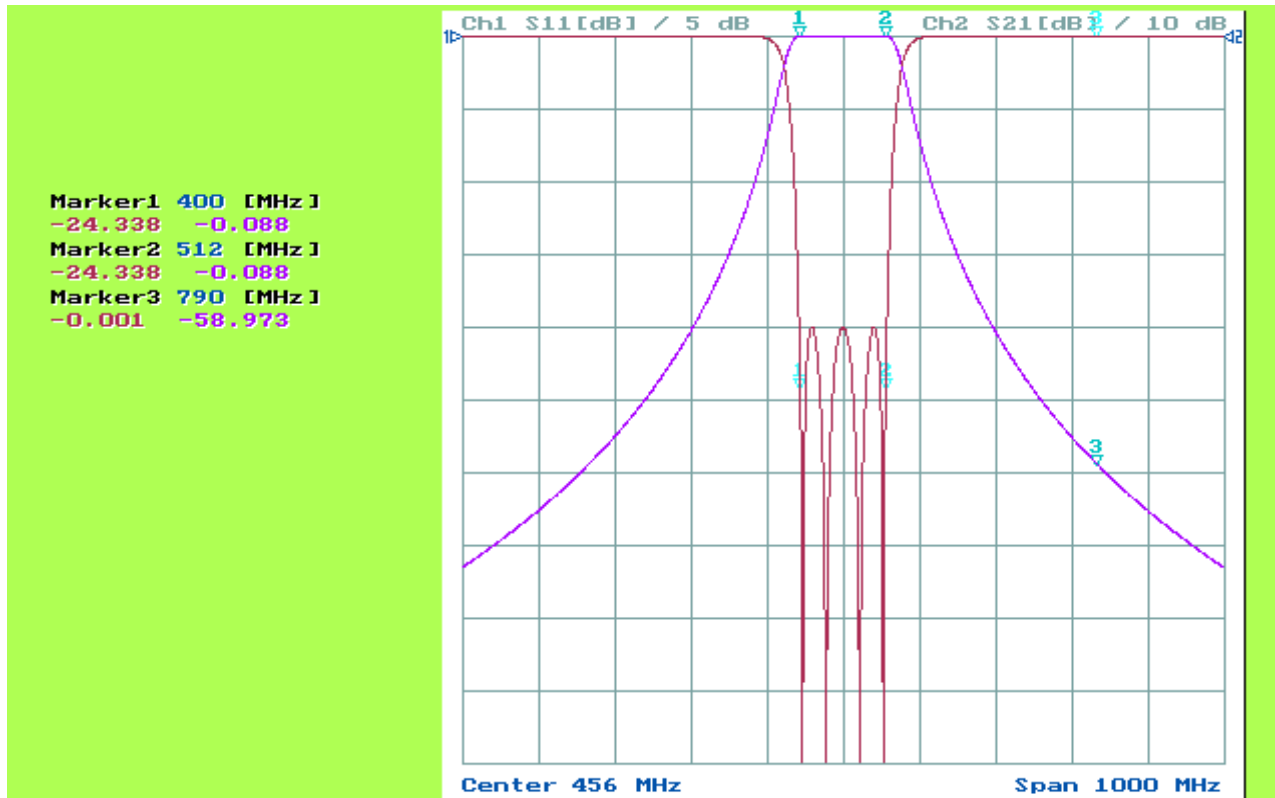
## ■ Electrical Specification

| Parameter                                |    | Specification           | Remark   |
|------------------------------------------|----|-------------------------|----------|
| 1. Pass Band Frequency                   | P1 | 400MHz~512MHz           | OK       |
|                                          | P2 | 790MHz~876MHz           | OK       |
|                                          | P3 | 1000MHz~1350MHz         | OK       |
|                                          | P4 | 5000MHz~6000MHz         | OK       |
|                                          | P5 | Combined Port           | OK       |
| 2. Insertion Loss<br>(Port 5 ↔ Port 1-4) | P1 | 0.4dB Max.              | OK       |
|                                          | P2 | 0.4dB Max.              | OK       |
|                                          | P3 | 0.4dB Max.              | OK       |
|                                          | P4 | 0.4dB Max.              | OK       |
| 3. Input Power                           | P1 | 100W Max.               | OK       |
|                                          | P2 | 100W Max.               | OK       |
|                                          | P3 | 100W Max.               | OK       |
|                                          | P4 | 100W Max.               | OK       |
|                                          | P5 | 400W Max.               | OK       |
| 4. Return Loss                           |    | 14dB Min.               | Proposal |
| 5. Isolation                             |    | 50dB min                | OK       |
| 6. PIMD                                  |    | -150dBc Min.@2x20w *    | OK       |
| 7. Impedance                             |    | 50Ω                     | OK       |
| 8. Operating temp                        |    | -20 ~ +65 °C            | OK       |
| 9. Storage temp                          |    | -40 ~ +85 °C            | OK       |
| 10. Dimension                            |    | 285.0 x 225.0 x 80.0 mm | Proposal |
| 11. Connector                            |    | 4.3-10 Female           | OK       |
| 12. Relative Humidity                    |    | 5~95%                   | OK       |
| 13. Waterproofing                        |    | IP67(Outdoor)           | OK       |
| 14. Finish                               |    | Gray                    | Proposal |

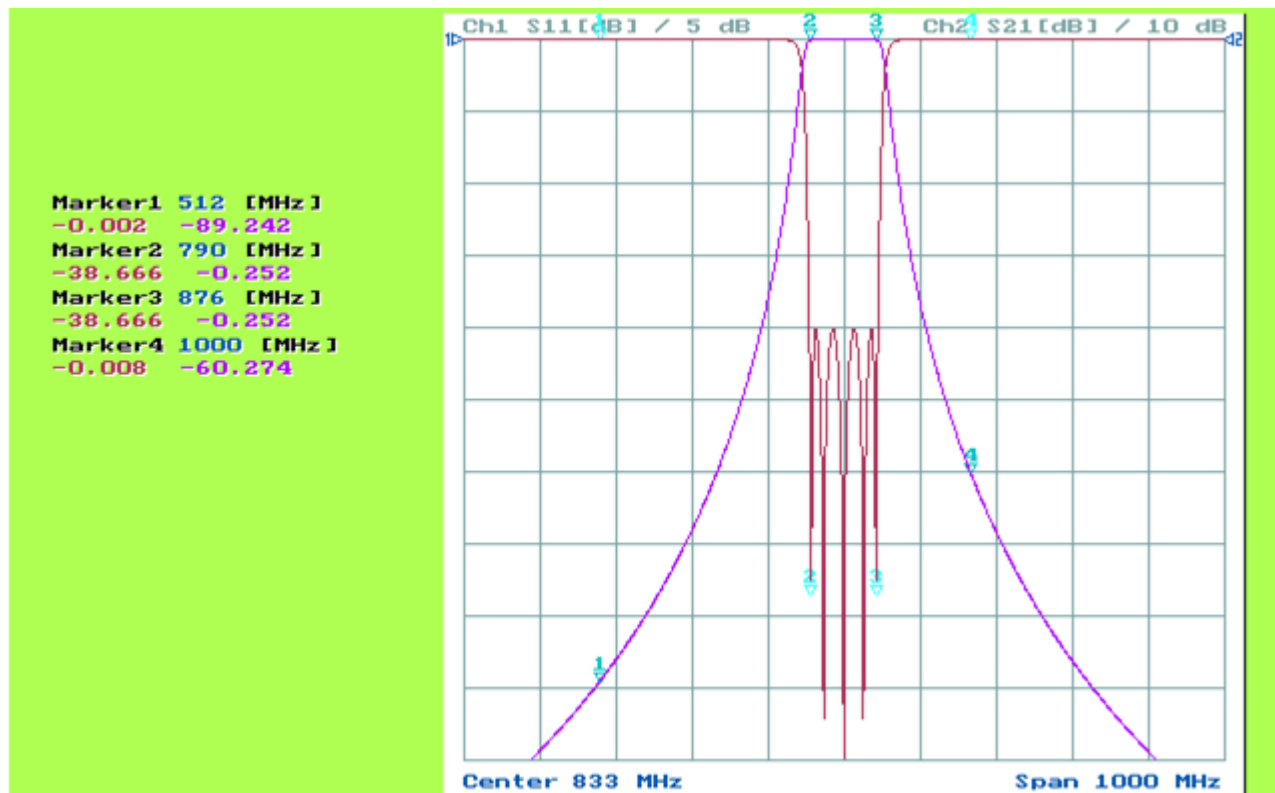
Remarks: This is a preliminary datasheet for reference. The final performance is subject to the sample.

\* The PIMD of the P4 band cannot be measured. However, it was designed to consider PIMD.

## ■ Simulation Curve

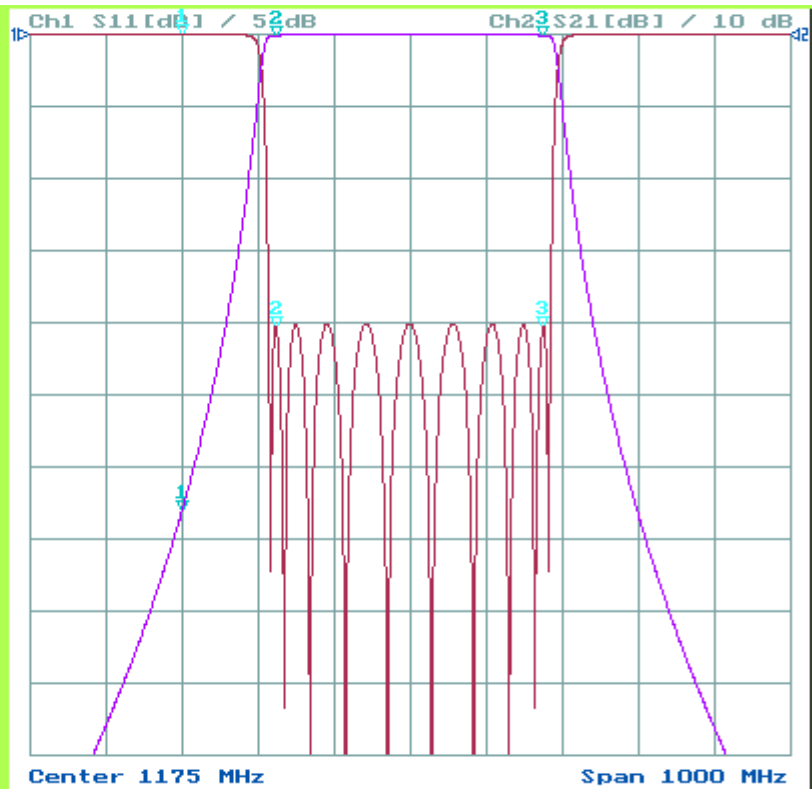


400~512MHz



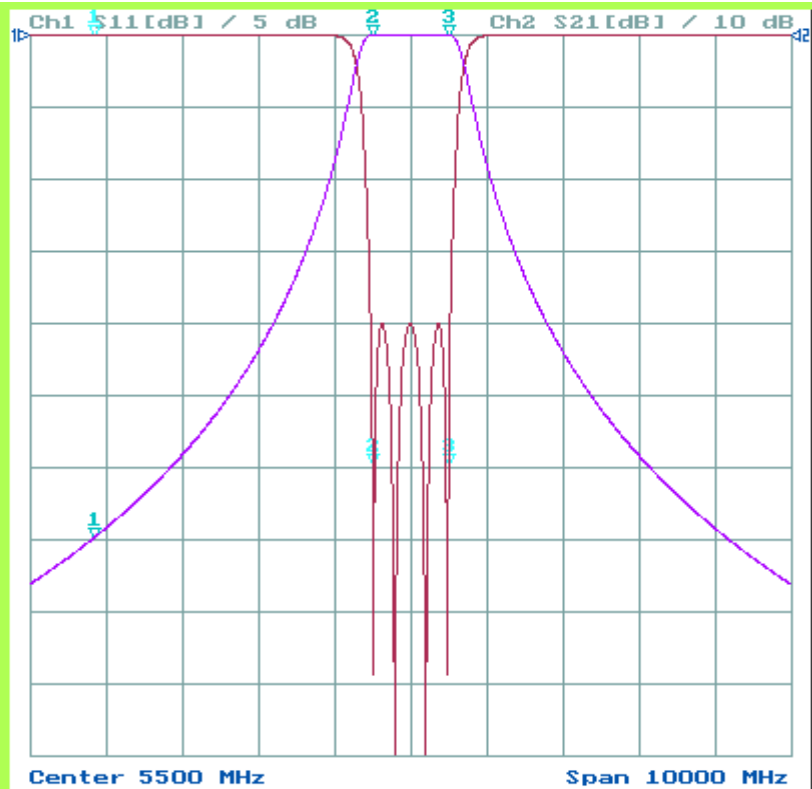
790~876MHz

Marker1 876 [MHz]  
-0.021 -66.101  
Marker2 1000 [MHz]  
-20.372 -0.317  
Marker3 1350 [MHz]  
-20.372 -0.317



1000~1350MHz

Marker1 1350 [MHz]  
-0.001 -69.798  
Marker2 5000 [MHz]  
-29.751 -0.096  
Marker3 6000 [MHz]  
-29.751 -0.096



5000~6000MHz