

## PRODUCT SPECIFICATION FOR INFORMATION

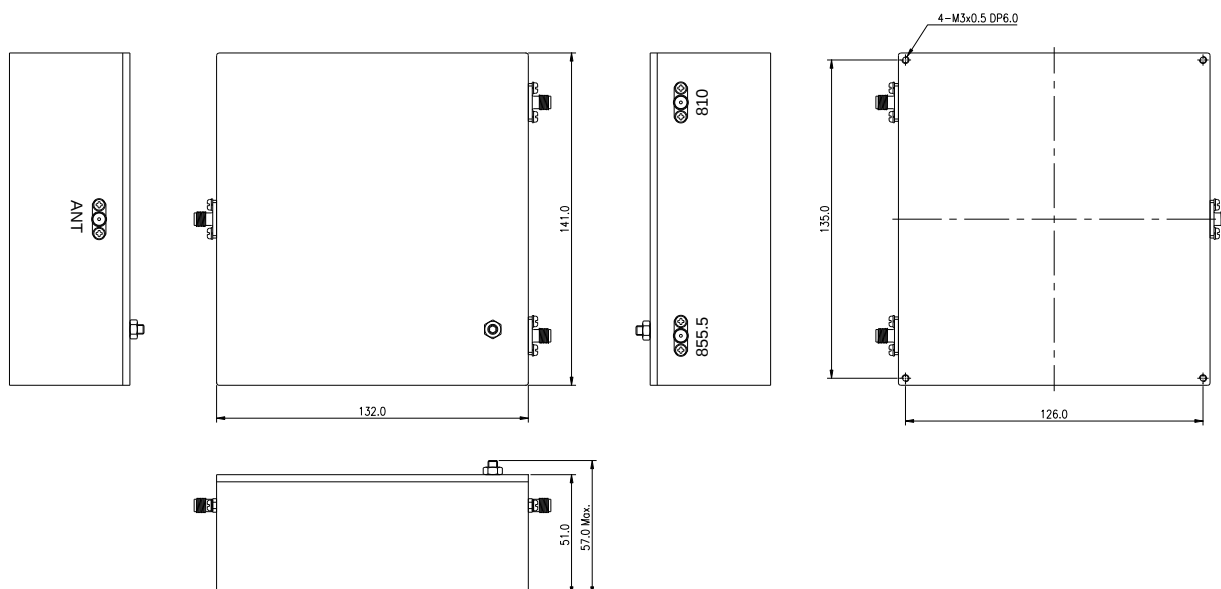
PRELIMINARY SPECIFICATION

**Product Name : Cavity Diplexer**

**Part No : MDI-C810-C855.5\_9M-9MS-A-R0**

| . | Rev. No. | Description | Date       | Author        | Final Approver |
|---|----------|-------------|------------|---------------|----------------|
| 1 | R0       | First Draft | 2024.04.18 | Jeffrey Chung | Michael Jeon   |
|   |          |             |            |               |                |
|   |          |             |            |               |                |
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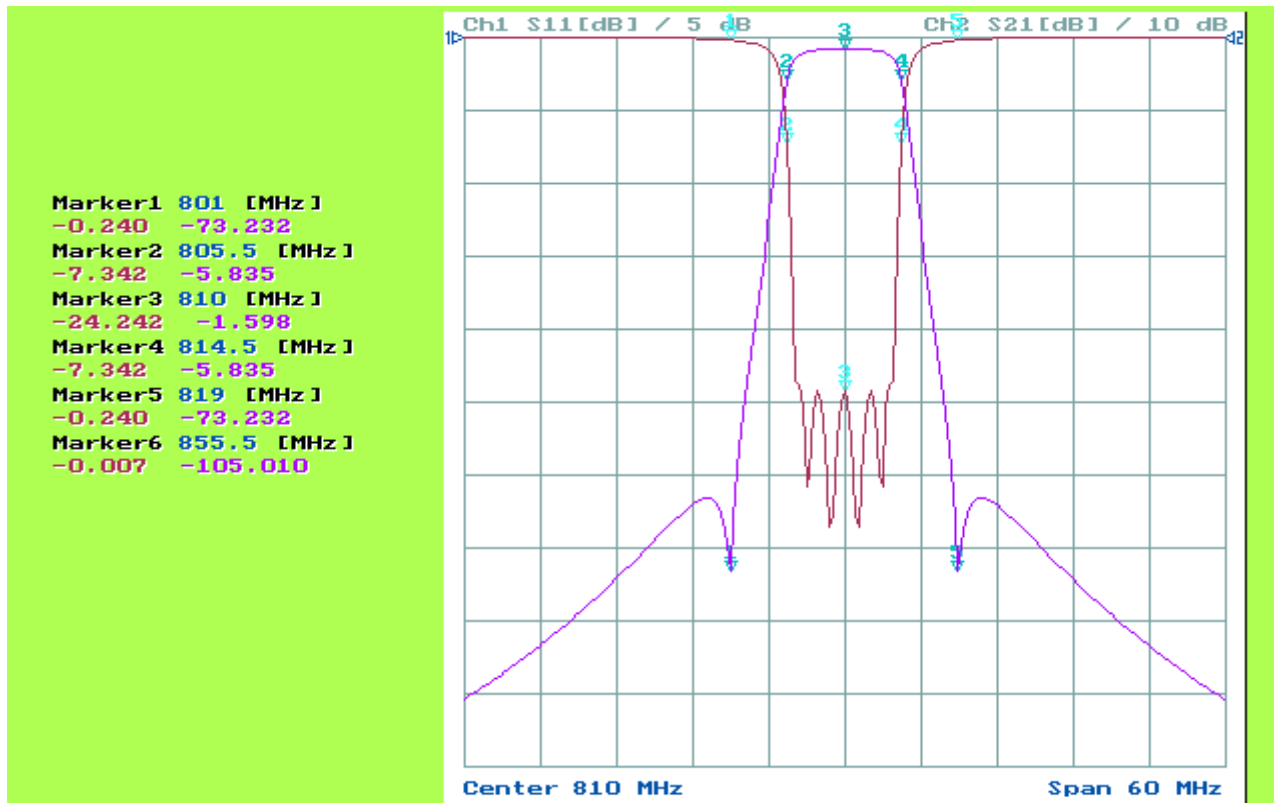
## ■ Mechanical Drawing



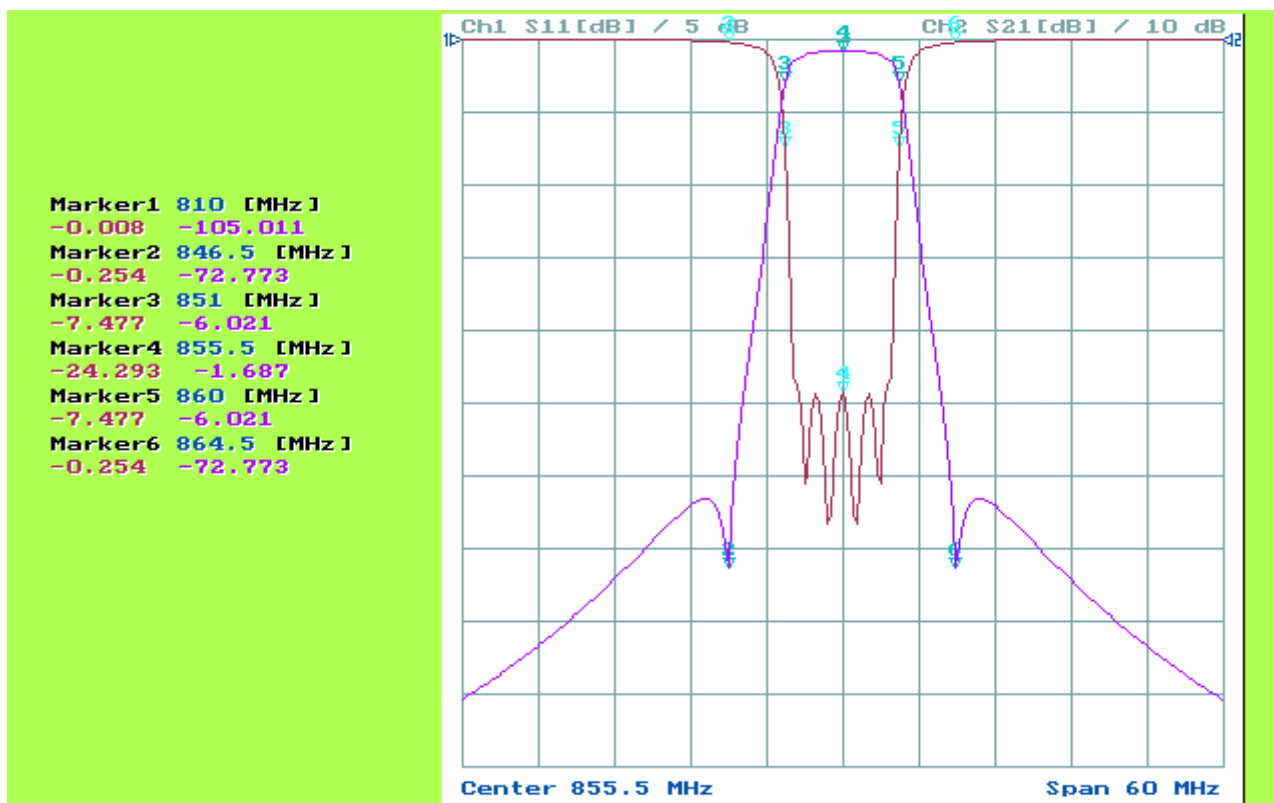
## ■ Electrical Specification

| Item                              | Specification             |             | Remark   |
|-----------------------------------|---------------------------|-------------|----------|
|                                   | UL                        | DL          |          |
| 1. Center Frequency               | 810 MHz                   | 855.5 MHz   | OK       |
| 2. Insertion Loss                 | 2.0 dB Max.               | 2.0 dB Max. | OK       |
| 3. BW 3dB                         | 9MHz Max.                 | 9MHz Max.   | OK       |
| 4. BW 60dB                        | 18MHz Max.                | 18MHz Max.  | OK       |
| 5. Return Loss                    | 17dB Min.@ Fc             |             | proposal |
| 6. Ultimate Rejection (Isolation) | 80dB min.                 |             | OK       |
| 7. In/Out Impedance               | 50 Ω                      |             | OK       |
| 8. Power                          | 5 W Max.                  |             | OK       |
| 9. Temperature Range              | 0°C ~ +60°C               |             | OK       |
| 10. Dimension [WxDxH]             | 141.0 x 132.0 x 57.0 [mm] |             | proposal |
| 11. Connector                     | SMA(f)                    |             | OK       |
| 12. Finish                        | Black                     |             | TBD      |

## ■ Simulation Data



810 MHz



855.5 MHz