

## PRODUCT SPECIFICATION FOR INFORMATION

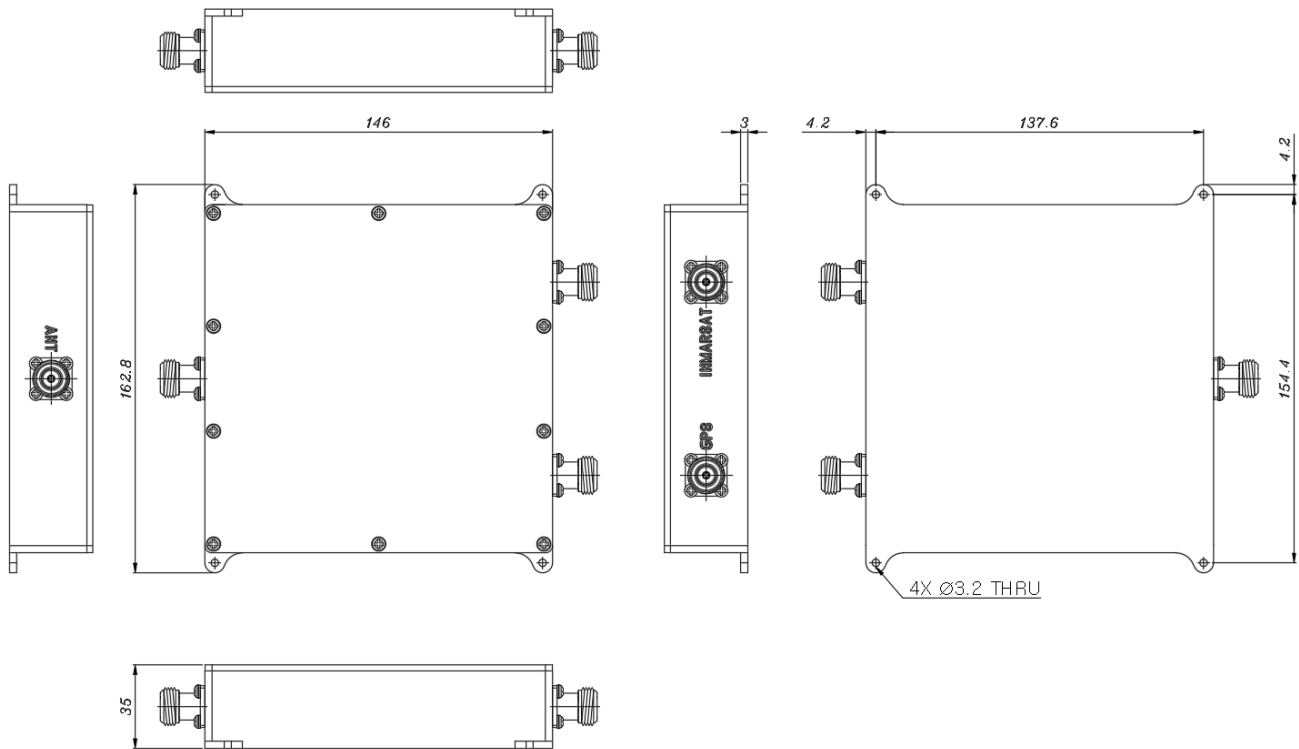
PRELIMINARY SPECIFICATION

**Product Name : GPS & INMARSAT RX/TX Duplexer**

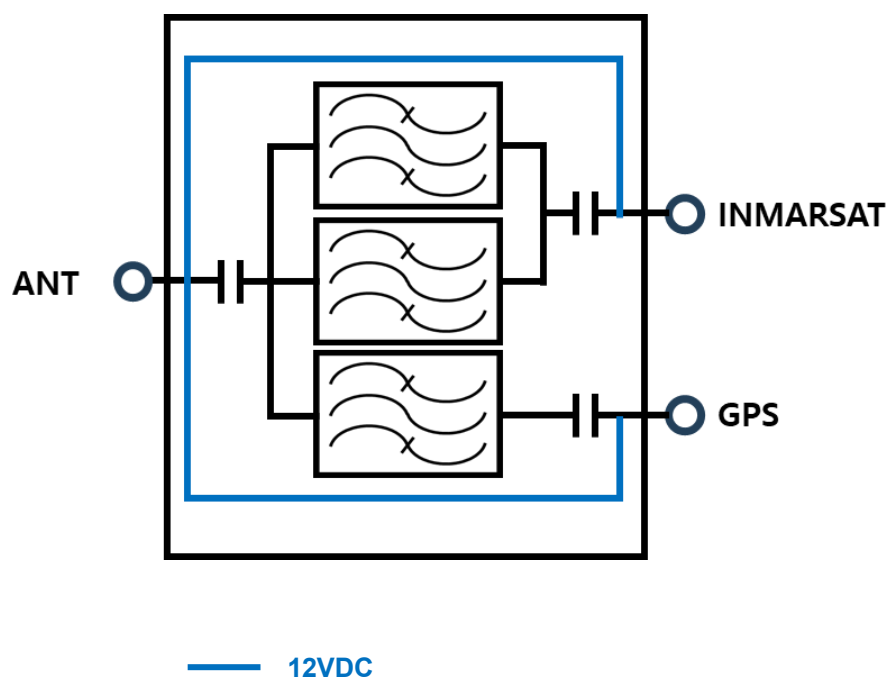
**Part No : MDI-C1575-C1591.75\_15M/109.5MN-A-R0**

|   | Rev. No. | Description | Date       | Author        | Final Approver |
|---|----------|-------------|------------|---------------|----------------|
| 1 | R0       | Draft       | 2026.03.23 | Jeffrey Chung | Michael Jeon   |
|   |          |             |            |               |                |
|   |          |             |            |               |                |
|   |          |             |            |               |                |

## ■ Mechanical Drawing



## ■ Block Diagram



## Electrical Specification

| Parameter                | Specification                              |                        | Remark   |
|--------------------------|--------------------------------------------|------------------------|----------|
|                          | INMARSAT-C                                 | GPS-L1                 |          |
| 1. Pass Band             | RX: 1537-1544.2MHz<br>TX: 1626.5-1646.5MHz | 1563-1587MHz           | OK       |
| 2. Insertion Loss        | 1.2dB typ., 1.5dB max.                     | 1.2dB typ., 1.5dB max. | Proposal |
| 3. Return Loss           | 16dB max.                                  | 16dB max.              | Proposal |
| 4. Isolation             | 50dB                                       | 50dB                   | Proposal |
| 5. Impedance             | 50Ohm                                      |                        | OK       |
| 6. Special feature       | 12VDC by-pass to all ports                 |                        | OK       |
| 7. Operating Temperature | -35°C ~ +70°C                              |                        | TBD      |
| 8. Input Power           | CW 40W Max.                                |                        | OK       |
| 9. Size(W×D×H)           | 162.8 X 146 X 35mm                         |                        | Proposal |
| 10. Connector            | N type(F)                                  |                        | OK       |
| 11. IP                   | IP56                                       |                        | OK       |
| 12. Humidity             | 95%                                        |                        | OK       |
| 13. Finish               | Black Epoxy                                |                        | TBD      |

Remarks: This is a preliminary datasheet for reference.

## Simulation Data

