

## PRODUCT SPECIFICATION FOR INFORMATION

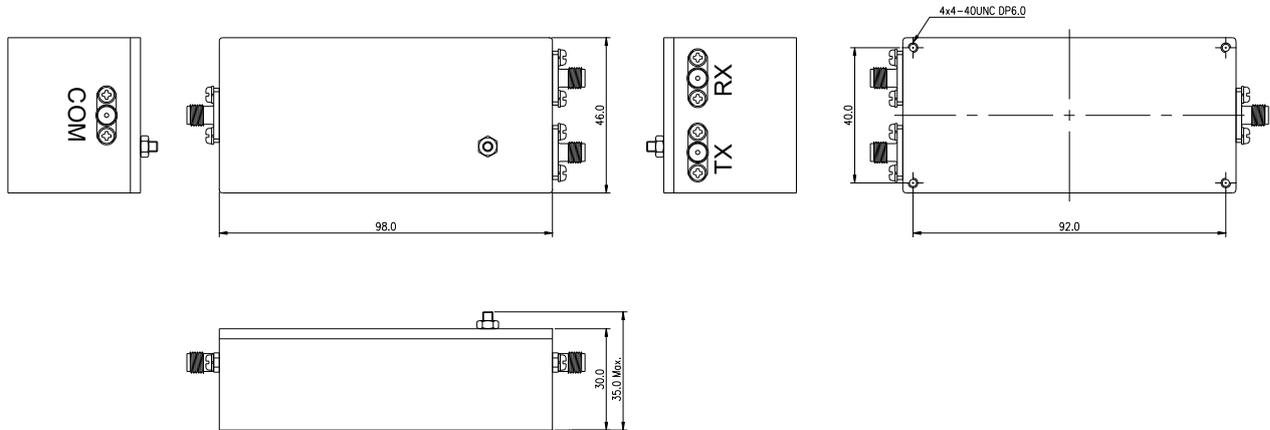
FINAL SPECIFICATION

**Product Name : Cavity Diplexer**

**Part No : MDI-C1542-C1642\_50.2M-50MS-A-R0**

| . | Rev. No. | Description | Date       | Author        | Final Approver |
|---|----------|-------------|------------|---------------|----------------|
| 1 | R0       | First Draft | 2025.07.14 | Jeffrey Chung | Michael Jeon   |
|   |          |             |            |               |                |
|   |          |             |            |               |                |
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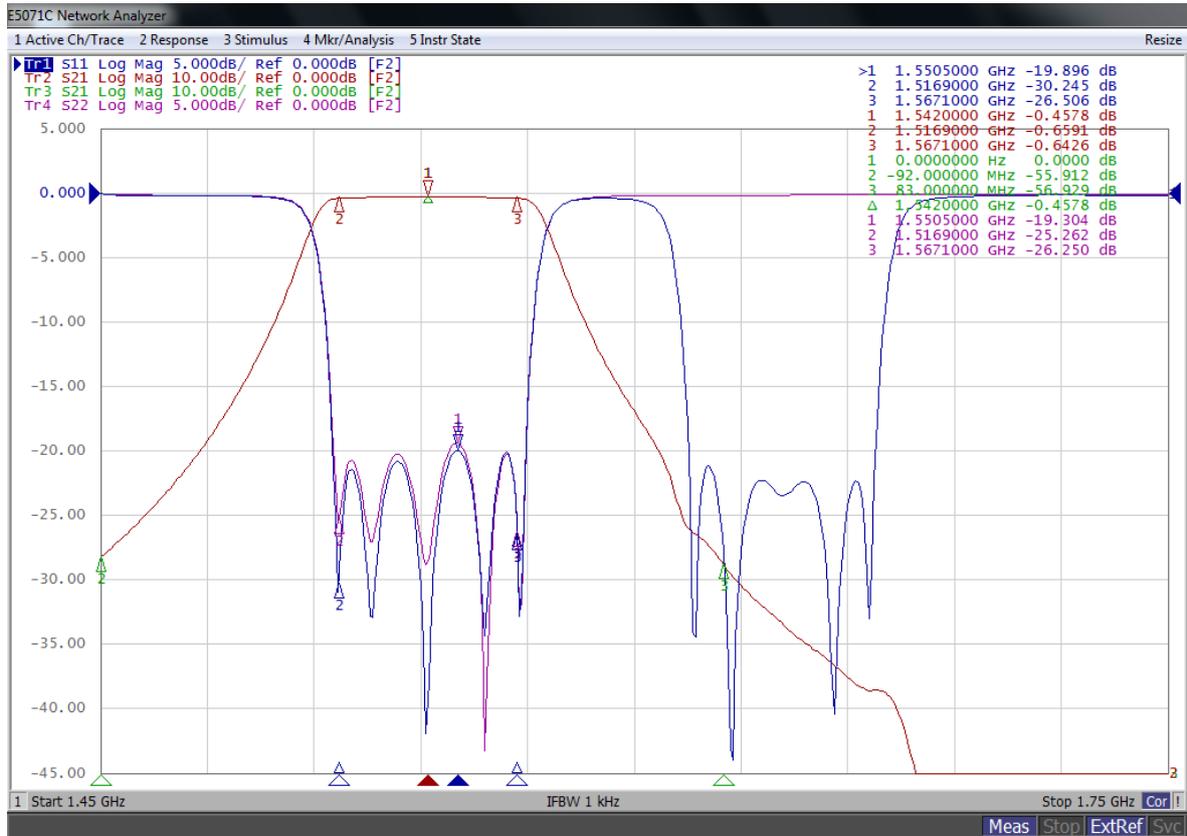
## ■ Mechanical Drawing



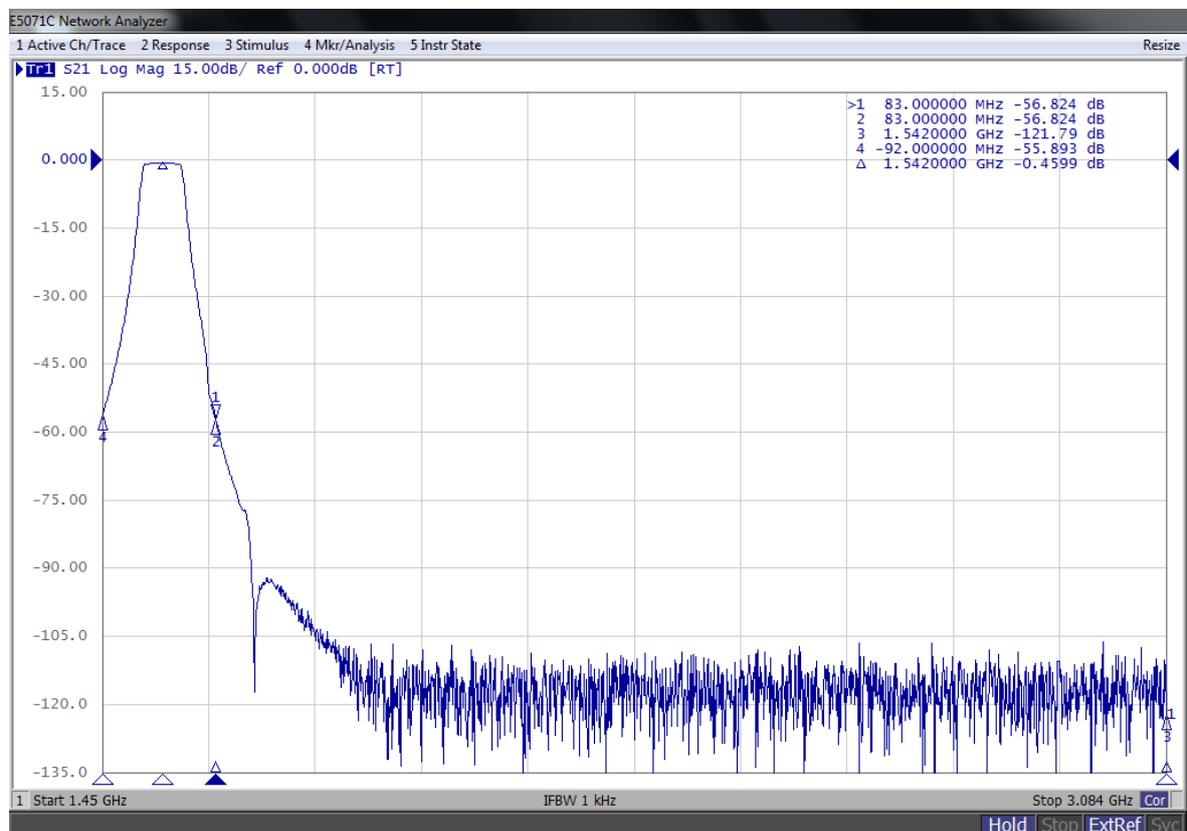
## ■ Electrical Specification

| Item                           | Specification                                  |  | Remark |
|--------------------------------|--|--|--------|
|                                | RX Band  | TX Band                                  |        |
| 1. Center Frequency            | 1542 MHz                                       | 1642 MHz                                 |        |
| 2. Pass Band Frequency         | $f_0 \pm 25.1 [1516.9 \sim 1567.1] \text{MHz}$ | $f_0 \pm 25 [1617 \sim 1667] \text{MHz}$ |        |
| 3. Insertion Loss              | 0.9 dB Max. @Fc                                | 0.9 dB Max. @Fc                          |        |
| 4. Return Loss                 | 14dB Min.                                      |  |        |
| 5. Rejection                   | 49dBc@1450MHz                                  | 47dBc@1560MHz                            |        |
|                                | 47dBc@1625~3084MHz                             | 61dBc@1750~5747MHz                       |        |
| 6. In/Out Impedance            | 50 $\Omega$                                    |  |        |
| 7. Power                       | Avg 30dBm, Peak 33 dBm                         | CW 30W Max.                              |        |
| 8. Operation Temperature Range | -30°C ~ +65°C                                  |  |        |
| 9. Environmental               | 16Kft and 6 Grms Vibration                     |  |        |
| 10. Dimension [WxDxH]          | 46.0 x 98.0 x 35.0 [mm]                        |  |        |
| 11. Connector                  | SMA(f)   |  |        |
| 12. Weight                     | 350g Max.                                      |  |        |
| 13. Finish                     | Black  |  |        |

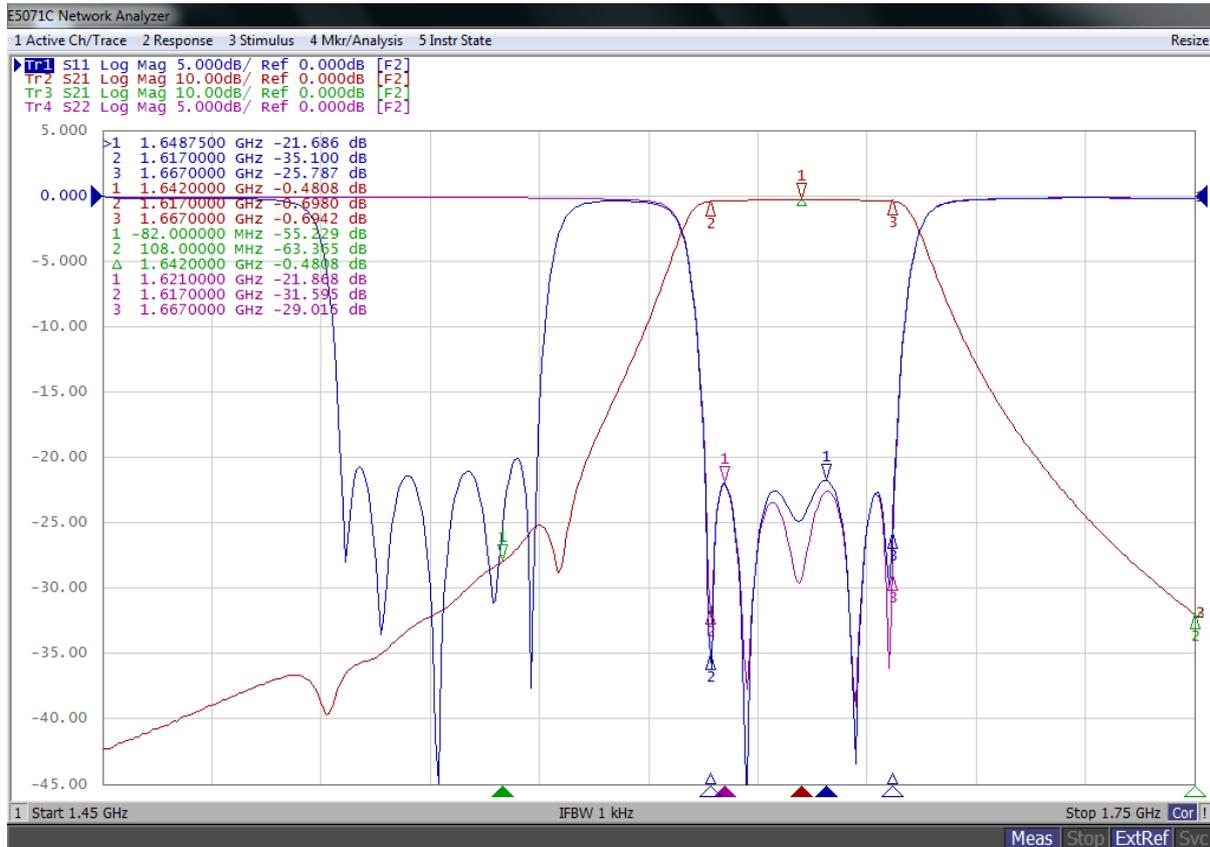
## ■ Test Curves



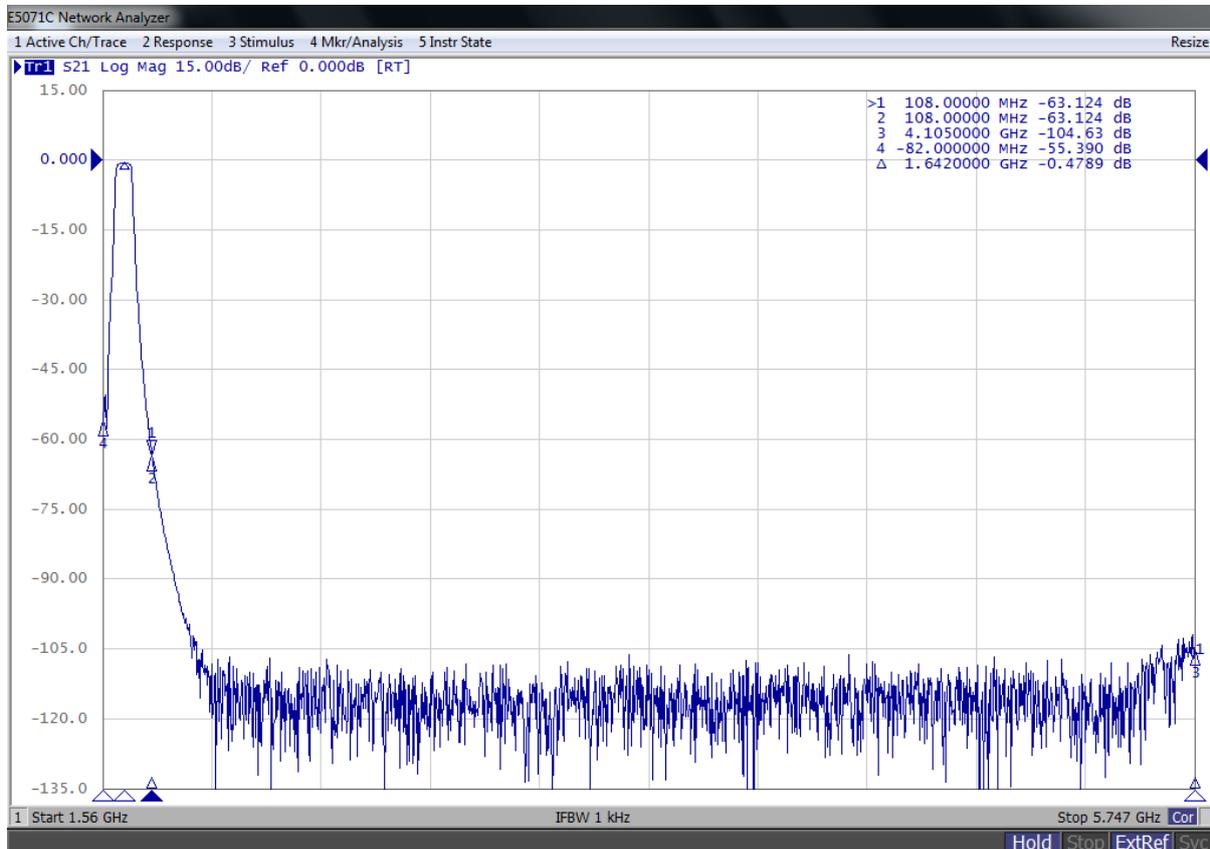
[ RX Band ]



[ RX Rejection ]



[ TX Band ]



[ TX Rejection ]