

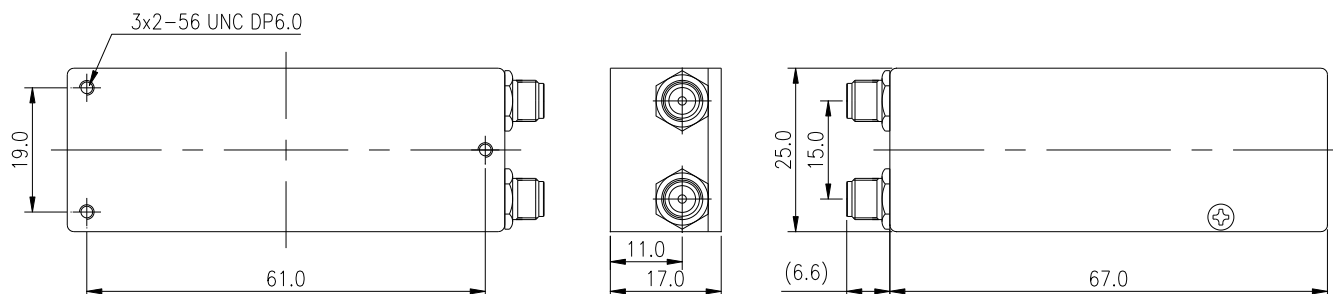
## PRODUCT SPECIFICATION FOR INFORMATION

FINAL SPECIFICATION

**Product Name : Band Pass Filter**  
**Part No : MBP-C1000\_500MS-A-R0**

|   | Rev. No. | Description                                                           | Date        | Author        | Final Approver |
|---|----------|-----------------------------------------------------------------------|-------------|---------------|----------------|
| 1 | R0       | Draft                                                                 | 2024.08.30. | Jeffrey Chung | Michael Jeon   |
|   |          | Operating Temp changed to -20 ~ +70℃<br>Finish changed to Black Epoxy | 2025.02.11. | Jeffrey Chung | Michael Jeon   |
|   |          |                                                                       |             |               |                |
|   |          |                                                                       |             |               |                |

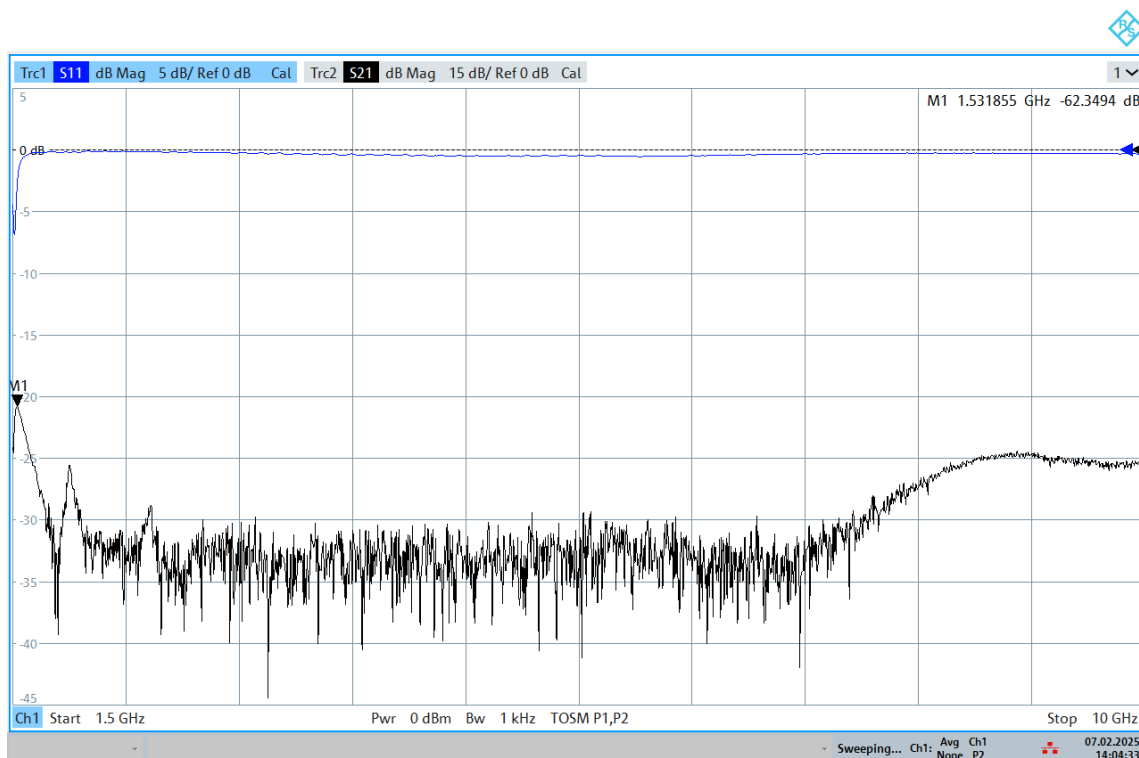
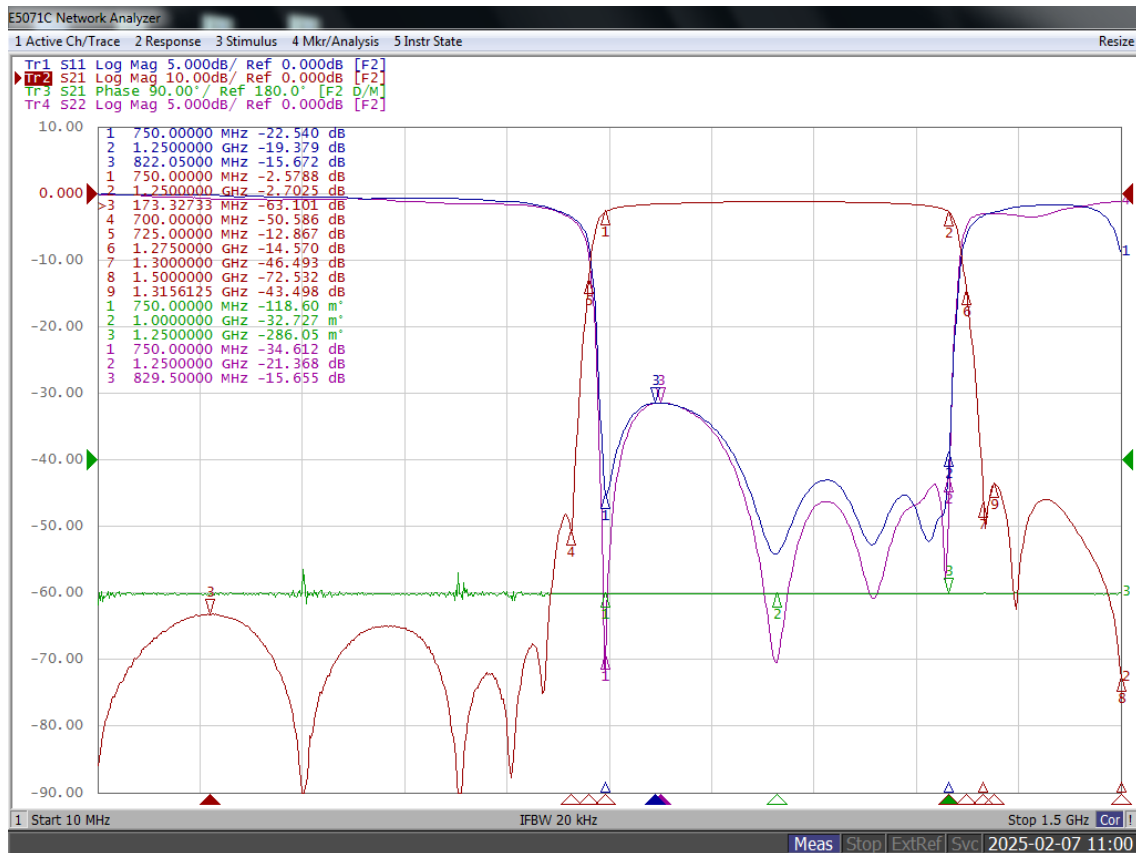
## ■ Mechanical Drawing



## ■ Electrical Specification

| Parameter                                    | Specification                         | Remark |
|----------------------------------------------|---------------------------------------|--------|
| 1. Center Frequency                          | 1000 MHz                              |        |
| 2. Bandwidth [BW]                            | $F_c \pm 250\text{MHz}$ [750~1250MHz] |        |
| 3. Insertion Loss in BW                      | 4.0dB Max.                            |        |
| 4. Return Loss                               | 14dB Min.                             |        |
| 5. Rejections                                | 55dB Min.@ 10 ~ 600MHz                |        |
|                                              | 10dB Min.@ 725MHz                     |        |
|                                              | 20dB Min.@ 700MHz                     |        |
|                                              | 10dB Min.@ 1275MHz                    |        |
|                                              | 40dB Min.@ 1300MHz                    |        |
|                                              | 55dB Min.@ 1500 ~ 10000MHz            |        |
| 6. In/Out Impedance                          | 50 Ohm                                |        |
| 7. Power Handling                            | +20dBm                                |        |
| 8. Operation Input Power                     | +15dBm                                |        |
| 9. Phase tracking for four filters over temp | $\pm 4\text{deg.}$                    |        |
| 10. Phase matching for four filters          | $\pm 4\text{deg.}$                    |        |
| 11. Amplitude tracking for four filters      | $\pm 0.3 \text{ dB}$                  |        |
| 12. Dimension [WxDxH]                        | 25.0 x 67.0 x 17.0mm                  |        |
| 13. Operation Temperature Range              | -20°C ~ +70°C                         |        |
| 14. Connector                                | SMA(F)                                |        |
| 15. Finish                                   | Black Epoxy Coating                   |        |

## Test Curve



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