

## PRODUCT SPECIFICATION FOR INFORMATION

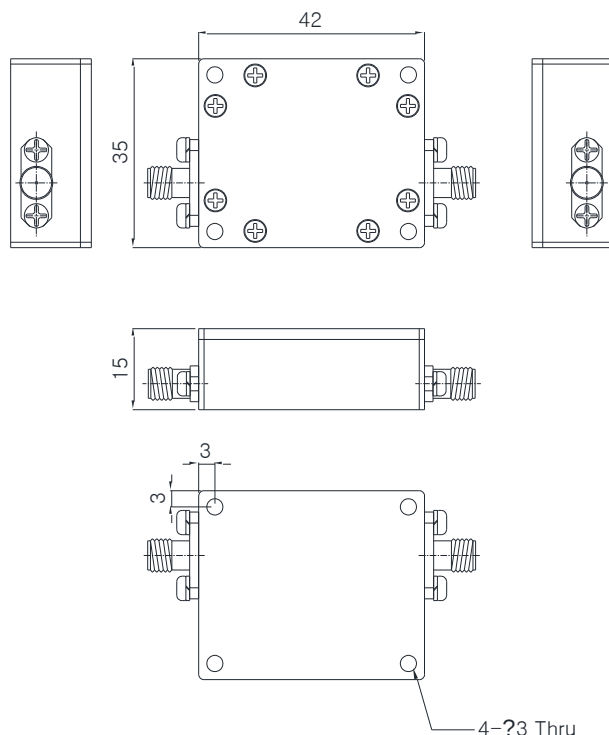
FINAL SPECIFICATION

**Product Name: Band Pass Filter**  
**Part No: MBP-C910.5\_29MS-A-R0**

### ■ History List

| No. | Rev. No. | Description | Date       | Author     | Final Approver |
|-----|----------|-------------|------------|------------|----------------|
| 1   | R0       | Draft       | 2022.07.27 | Bryan Jeon | Michael Jeon   |
|     |          |             |            |            |                |
|     |          |             |            |            |                |
|     |          |             |            |            |                |

## ■ Mechanical Drawing



**Note**  
1. Connector: SMA(F)  
2. Finish: Black epoxy

## ■ Electrical Specification

| Parameter               | Specification                         | Remark |
|-------------------------|---------------------------------------|--------|
| 1. Center Frequency     | 910.5MHz                              |        |
| 2. Bandwidth            | $F_c \pm 14.5\text{MHz}$ [896~925MHz] |        |
| 3. Insertion Loss in BW | 5.2dB Max.                            |        |
| 4. Ripple in BW         | 4.5dB Max.                            |        |
| 5. VSWR in BW           | 1.4:1 Max.                            | Ratio  |
| 6. Attenuation          | 50dB Min.@50~850MHz                   |        |
|                         | 15dB Min.@930~960MHz                  |        |
|                         | 40dB Min.@960~2000MHz                 |        |
| 7. In/Out Impedance     | 50Ω                                   |        |
| 8. Max Input Power      | 1W CW                                 |        |
| 9. Connector            | SMA(f)                                |        |
| 10. Temperature Range   | -20°C ~ +80°C                         |        |
| 11. Dimension(WxDxH)    | 42.0x35.0x15.0 mm                     |        |
| 12. Finish              | Black epoxy coating                   |        |

## ■ Environmental Specifications

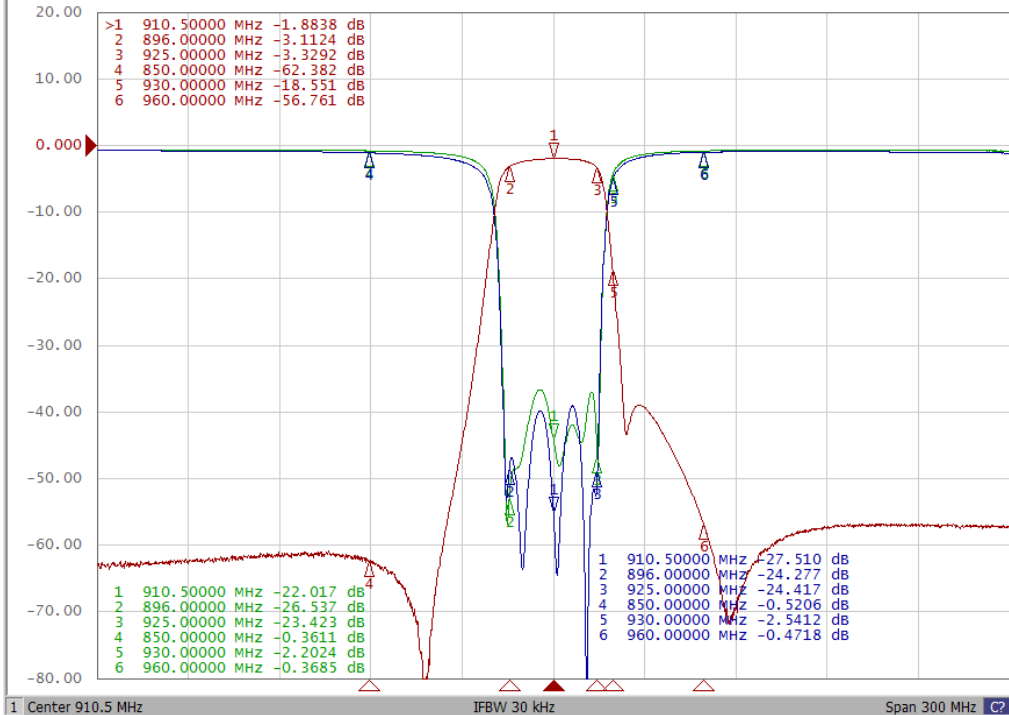
|                                |                                                                             |  |
|--------------------------------|-----------------------------------------------------------------------------|--|
| 1. Operating Temperature Range | -20°C ~ +80 °C                                                              |  |
| 2. Storage Temperature Range   | -20°C ~ +80 °C                                                              |  |
| 3. Relative Humidity           | 10% ~ 95%                                                                   |  |
| 4. Random Vibration            | MIL<br>STD 810F Method 514.5 procedure C1.<br>3 axes, 20min. per each axis. |  |
| 5. Dust                        | MIL 810F Method 510.4 Procedure III settling dust                           |  |
| 6. Safety requirement          | Approved according to UL/CE or similar standards.                           |  |

## Test Curve

E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Tr1 S11 Log Mag 5.000dB/ Ref 0.000dB [F2]  
Tr2 S21 Log Mag 10.00dB/ Ref 0.000dB [F2]  
Tr3 S22 Log Mag 5.000dB/ Ref 0.000dB [F2]



1 Center 910.5 MHz

IFBW 30 kHz

Span 300 MHz

Meas Stop ExtRef Svc

2023-03-07 10:47

Save State

State01\*

State02\*

State03\*

State04\*

State05\*

State06\*

State07\*

State08\*

Autorec\*

UserPres\*

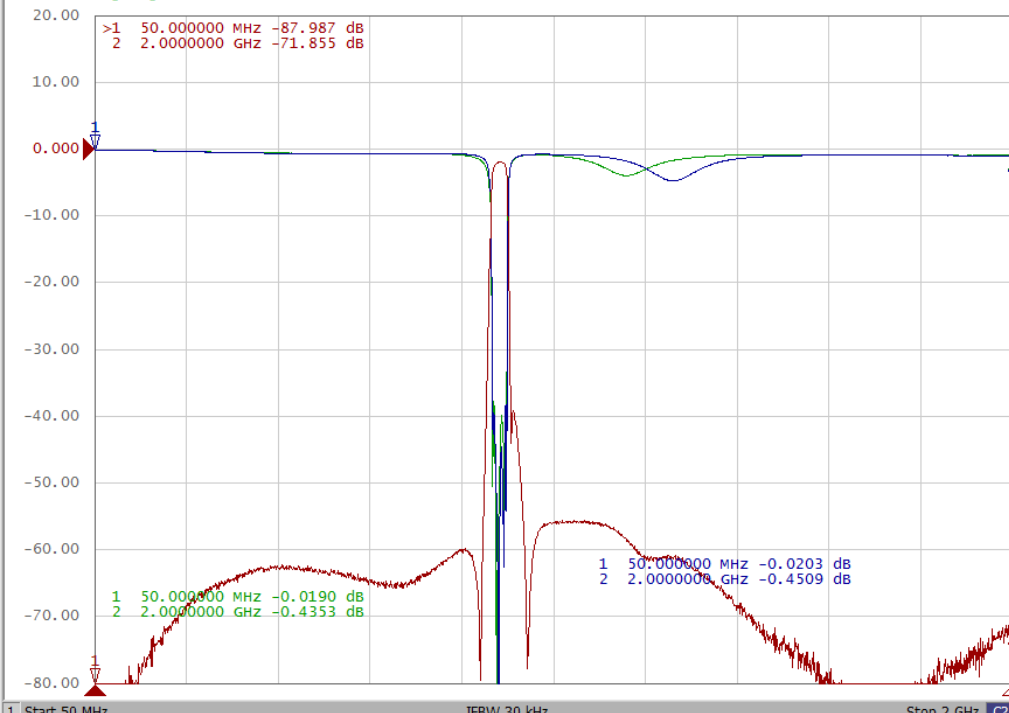
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Return

E5071C Network Analyzer

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Tr1 S11 Log Mag 5.000dB/ Ref 0.000dB [F2]  
Tr2 S21 Log Mag 10.00dB/ Ref 0.000dB [F2]  
Tr3 S22 Log Mag 5.000dB/ Ref 0.000dB [F2]



1 Start 50 MHz

IFBW 30 kHz

Stop 2 GHz

Meas Stop ExtRef Svc

2023-03-07 10:57

Recall State

State01

State02

State03

State04

State05

State06

State07

State08

Autorec

UserPres

File Dialog...

Return