

# Coaxial Isolator

## ACI164M174M42S

### Revision record

| Date       | Version | Author | Revision description                  | Comment      |
|------------|---------|--------|---------------------------------------|--------------|
| 2024/12/23 | V1.0    | Zhou   | Created                               | /            |
| 2024/3/20  | V1.1    | Zhou   | Updated the Specification             | Apex request |
| 2025/12/08 | V1.2    | Vivian | Updated the Specification             | Apex request |
| 2026/01/09 | V1.3    | Vivian | Updated the Specification and Outline | Apex request |
| 2026/02/09 | V1.4    | Vivian | Updated the Specification             | Apex request |

### Electrical specification

| Parameter                    | Specification                                          |
|------------------------------|--------------------------------------------------------|
| Frequency range              | 164-174MHz                                             |
| Insertion loss               | P1→P2: 1.0 max@25°C±5 °C<br>1.2dB max @ -10°C to +55°C |
| Isolation                    | P2→P1: 50dB min@25°C±5 °C<br>42dB min @ -10°C to +55°C |
| VSWR                         | 1.2 max@25°C±5 °C<br>1.3 max @ -10°C to +55°C          |
| Forward Power/ Reverse Power | 150W CW/30W                                            |
| Direction                    | clockwise                                              |
| Operating Temperature        | -10°C to +55°C                                         |

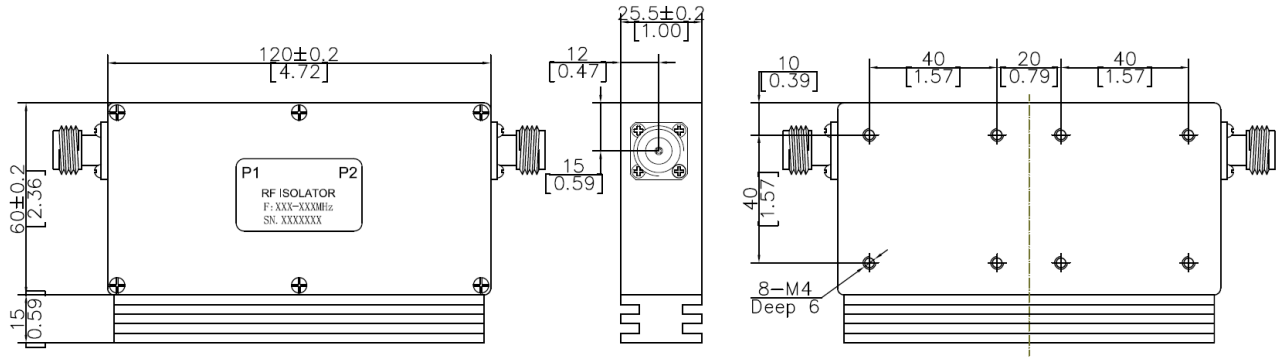
### Mechanical specification

| Parameter      | Specification                    |
|----------------|----------------------------------|
| Dimension      | L x W x H: 120mm x 60mm x 25.5mm |
| Connector Type | Input / Output :N-F              |
| Notes          | Material shall be RoHS 6/6       |

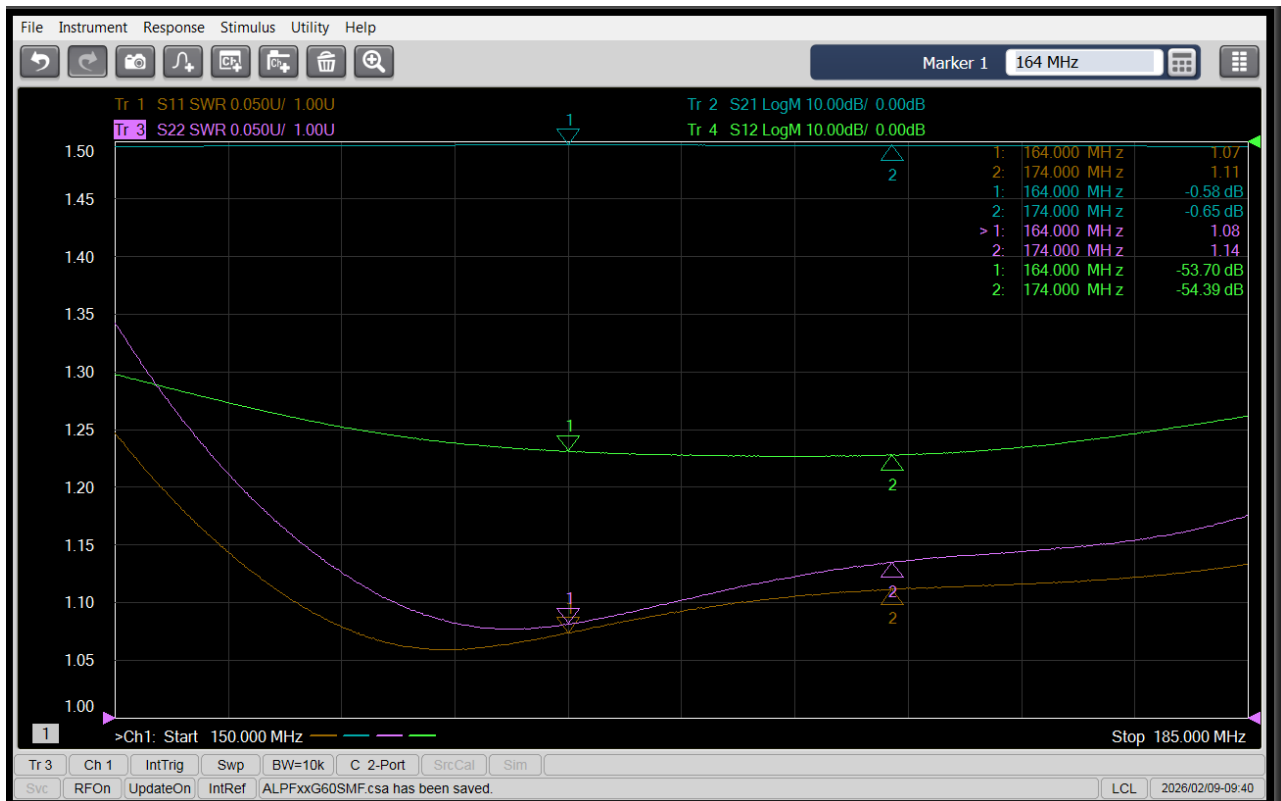


Apex Microwave Co. LTD

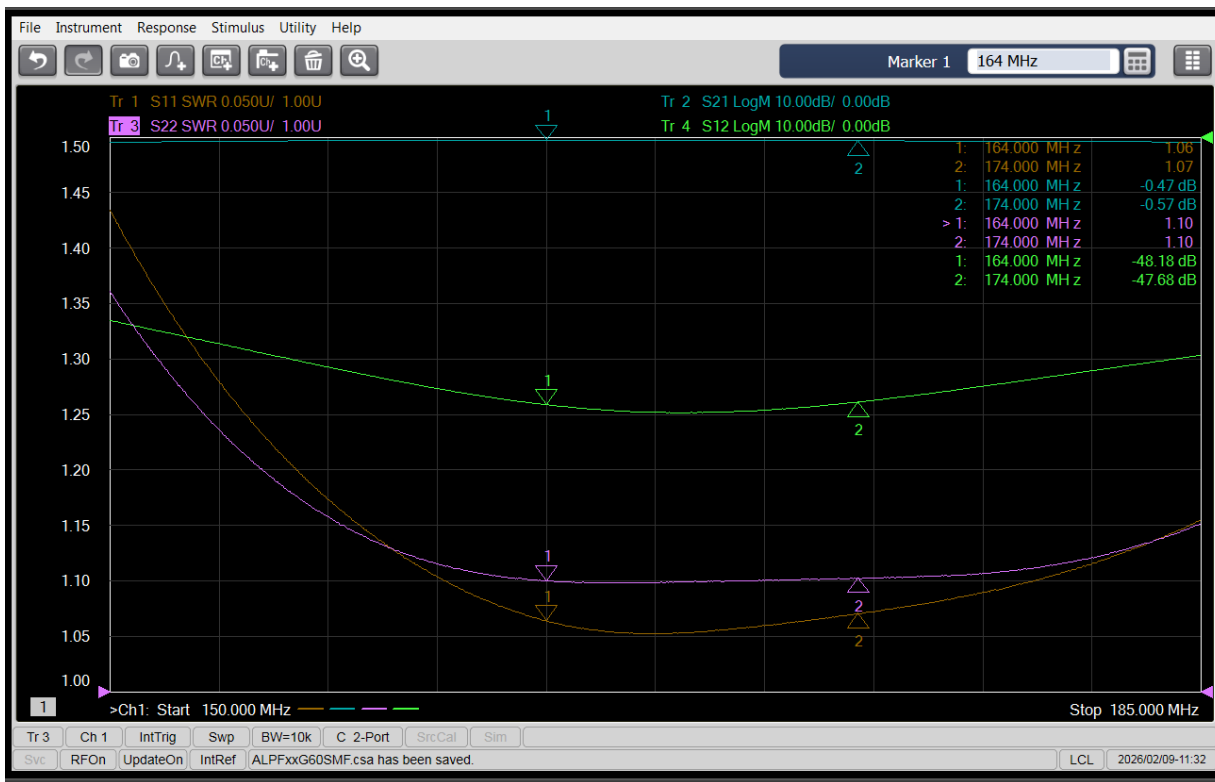
## Outline



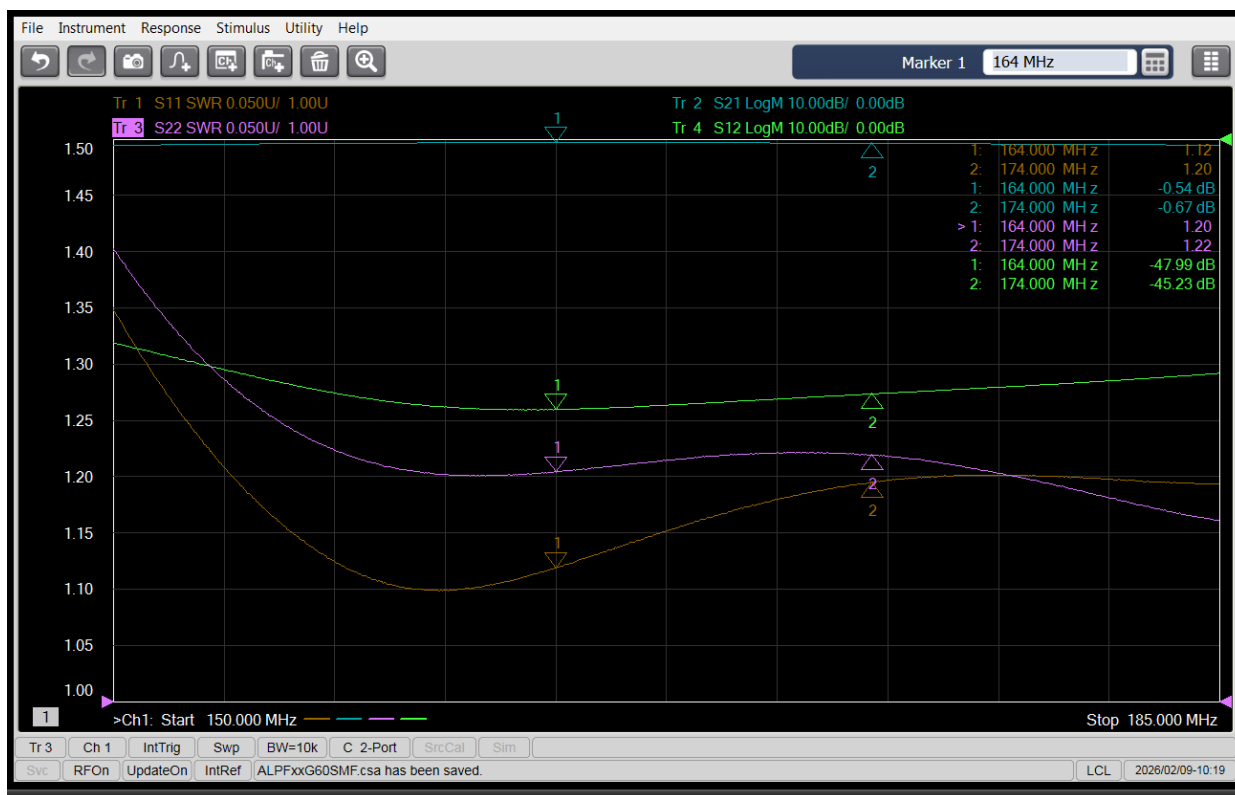
## Test curve



the test curve of +25°C



the test curve of +55°C



the test curve of -10°C