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|-----------------|--------------------------------|-------------------------------|--------------|
| Customer Name | Standard specifications | FUJITSU MEDIA DEVICES LIMITED | |
| System | GPS (50/100 ohm) | DATE | Sep. 7, 2005 |
| FMD Part Number | FAR-F6KB-1G5754-B4GE | Version 3.1c | |

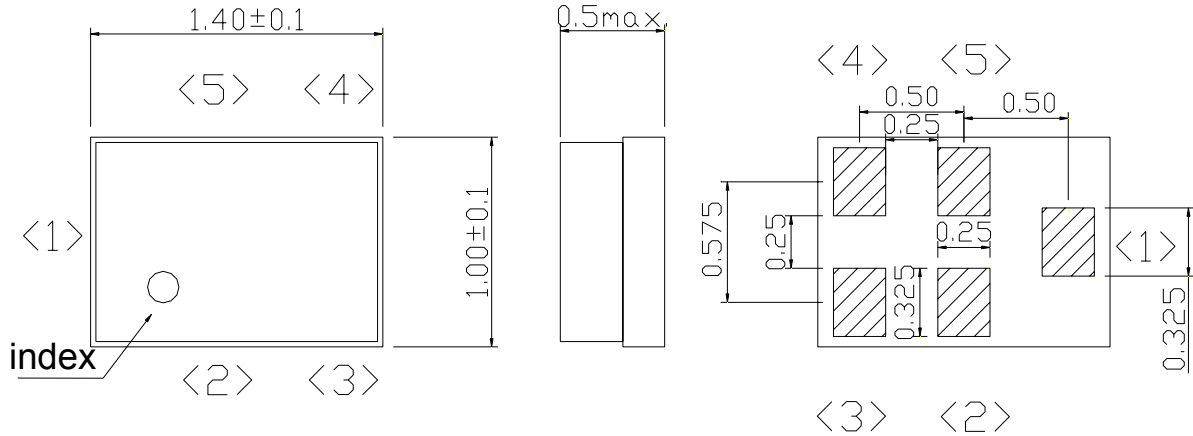
Table 1. Electrical specifications

| Passband: 1574.42~ 1576.42 MHz | | | | | | |
|--|---------------------|-------------------------|---------------|------|------|---------|
| Item | Condition | Specification | | | Unit | Remarks |
| | | Min. | Typ. | Max. | | |
| Insertion Loss | 1574.42~1576.42 MHz | - | 1.1 | 1.5 | dB | |
| Ripple | 1574.42~1576.42 MHz | - | 0.1 | 0.6 | dB | |
| Absolute attenuation | 824~849 MHz | 36 | 43 | - | dB | |
| | 880~915 MHz | 36 | 41 | - | dB | |
| | 1475.42 MHz | 28 | 36 | - | dB | |
| | 1525.42 MHz | 25 | 40 | - | dB | |
| | 1625.42 MHz | 13 | 19 | - | dB | |
| | 1675.42 MHz | 15 | 23 | - | dB | |
| | 1710~1785 MHz | 19 | 25 | - | dB | |
| | 1850~1910 MHz | 30 | 37 | - | dB | |
| 1920~1980 MHz | 33 | 41 | - | dB | | |
| VSWR (Input) | 1574.42~1576.42 MHz | - | 1.4 | 1.9 | - | |
| VSWR (Output) | 1574.42~1576.42 MHz | - | 1.4 | 1.9 | - | |
| Amplitude Balance S21 / S31 | 1574.42~1576.42 MHz | -1.1 | +0.2/ +0.3 | +1.1 | dB | |
| Phase Balance ($\phi_{S21}-\phi_{S31}$)-180 | 1574.42~1576.42 MHz | -11 | +3.9/ +4.2 | +11 | deg. | |
| Input Impedance | Unbalanced | 50 | | | ohm | |
| Output Impedance | Balance | 100 | | | ohm | |
| Operating Temperature | | -30 ~ +85 | | | °C | |
| Device size | | 1.4typ.x1.0typ.x0.5max. | | | mm | |

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Dimension

Device size: 1.4typ. x 1.0typ. x 0.5max.

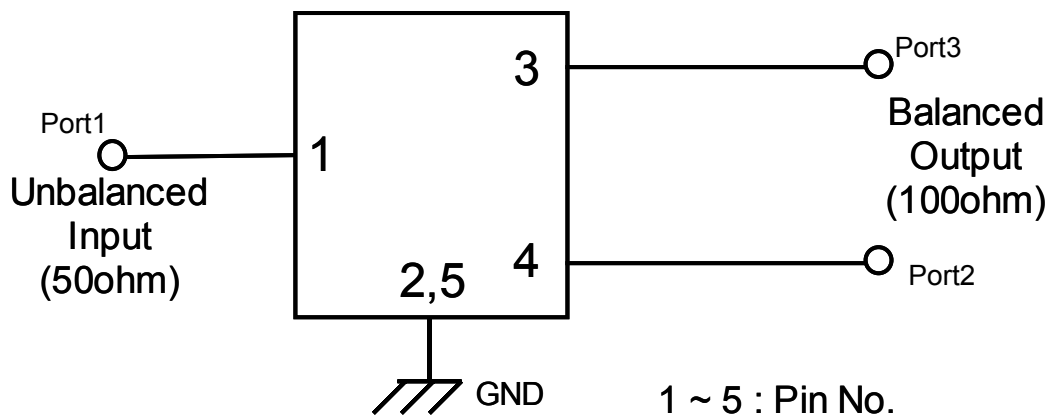


Unit: mm

Pin Configuration

| Pin No. | Symbol | Function |
|---------|--------|----------------|
| 1 | IN | Unbalanced pin |
| 2 | GND | Ground |
| 3 | OUT | Balanced pin |
| 4 | OUT | Balanced pin |
| 5 | GND | Ground |

Evaluation Circuit



| | | | |
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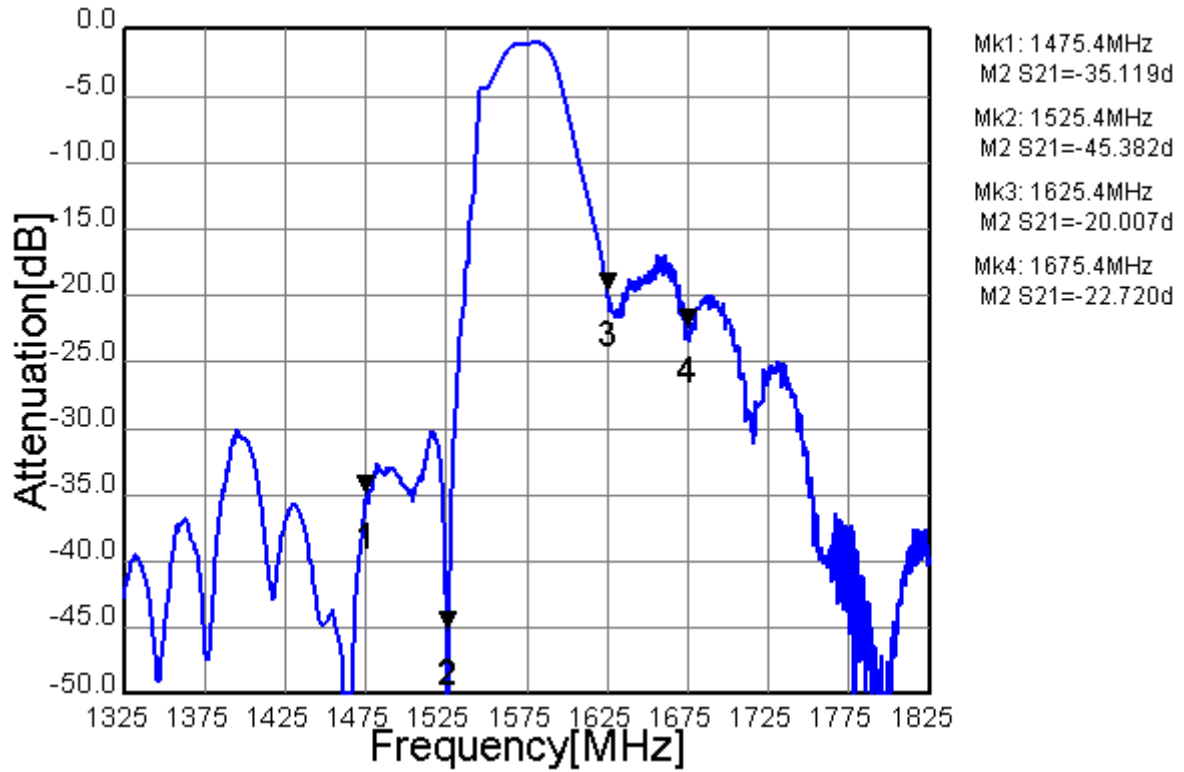


Fig.1 Pass-band Characteristic

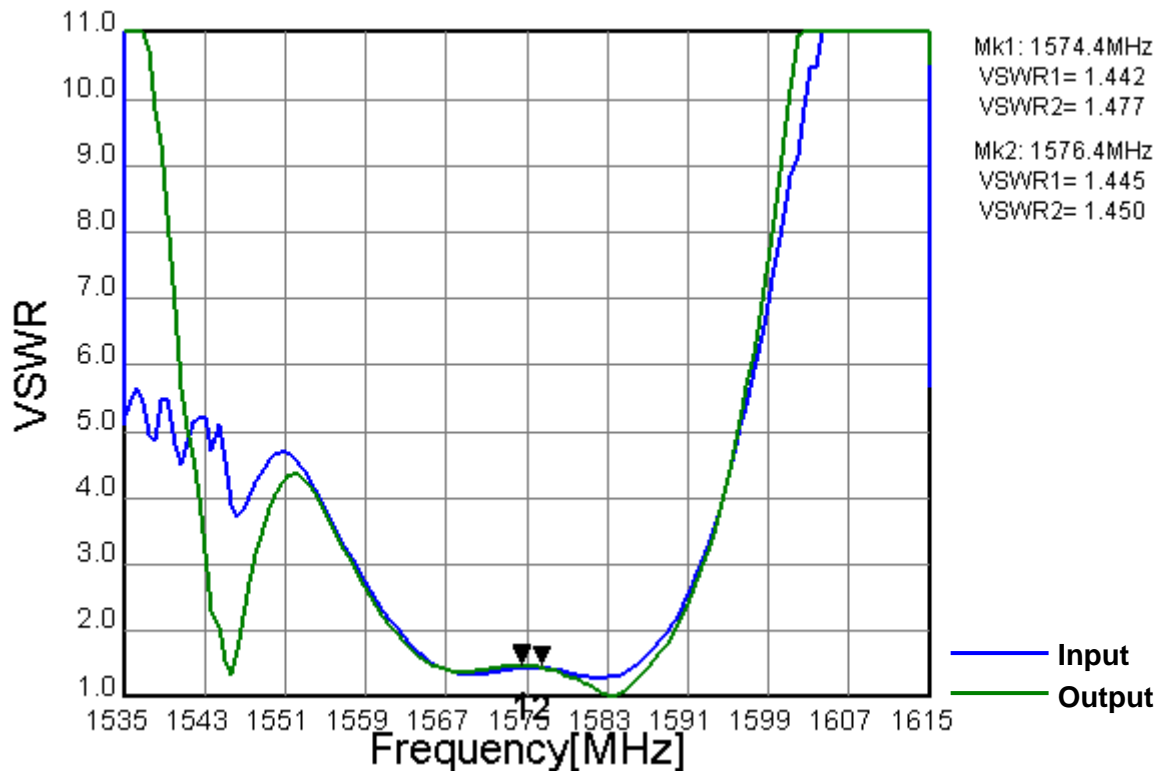


Fig.2 VSWR

| | | | |
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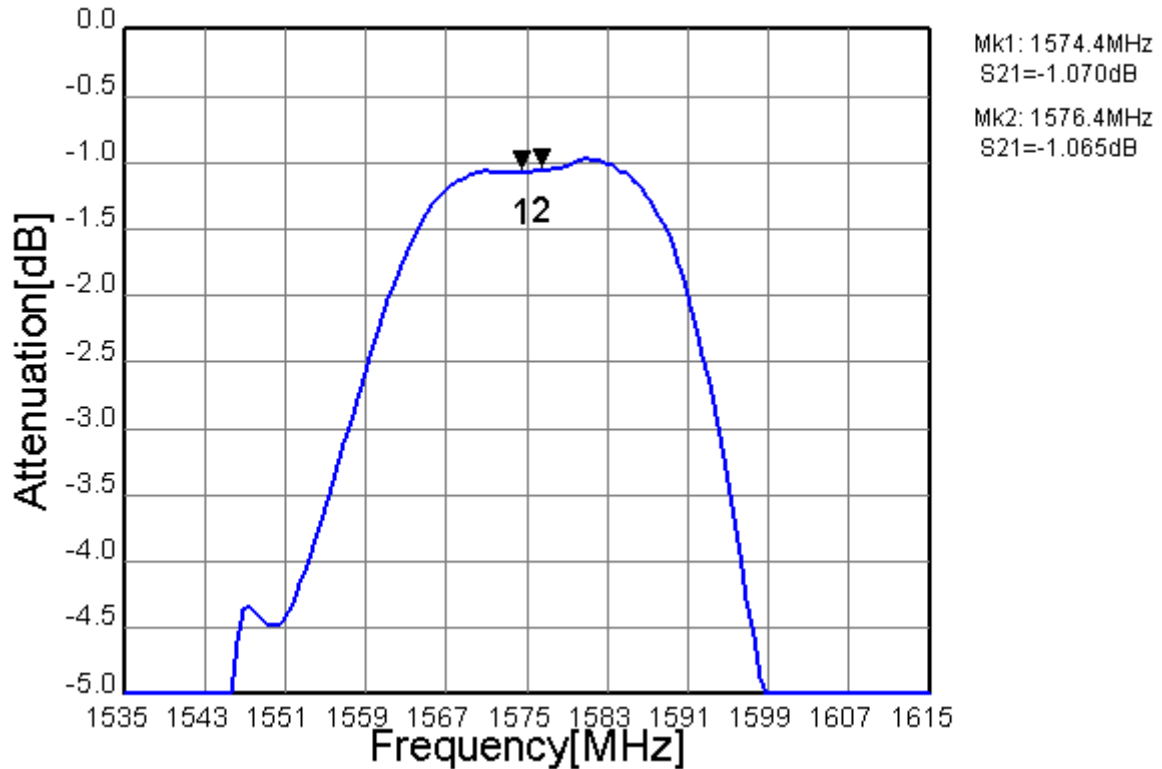


Fig.3 In-band Characteristic

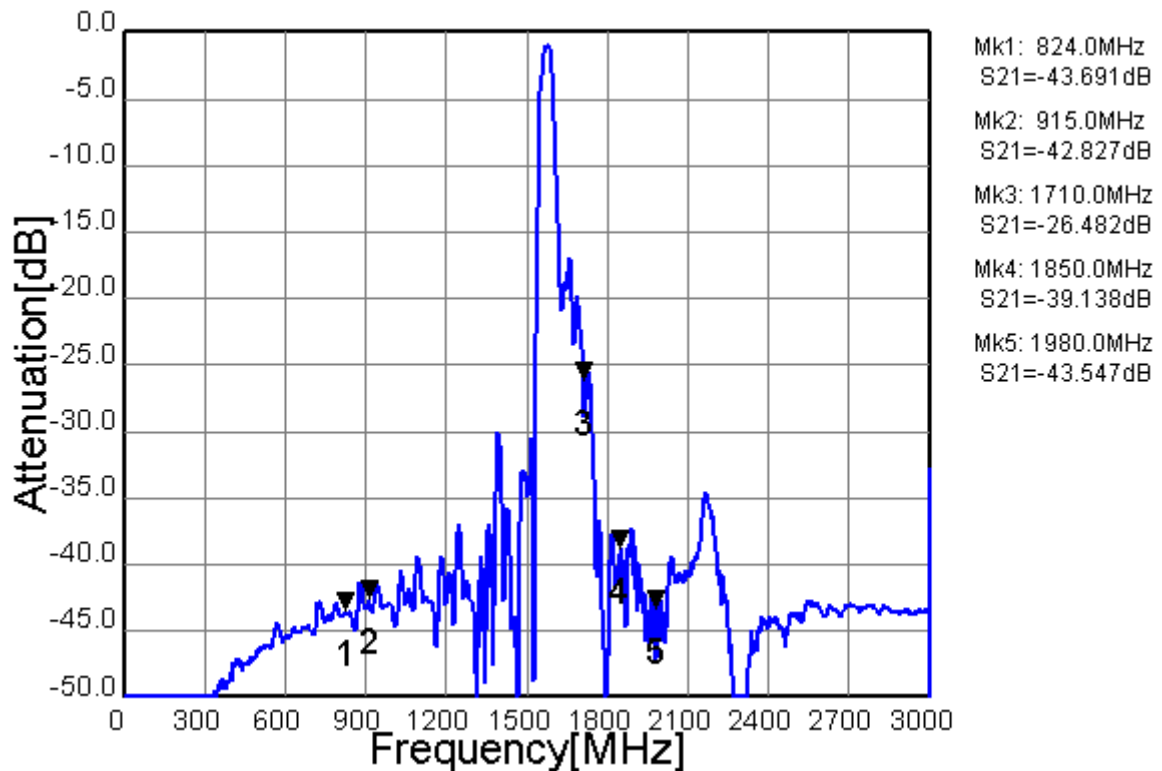


Fig.4 Wide-band Characteristic

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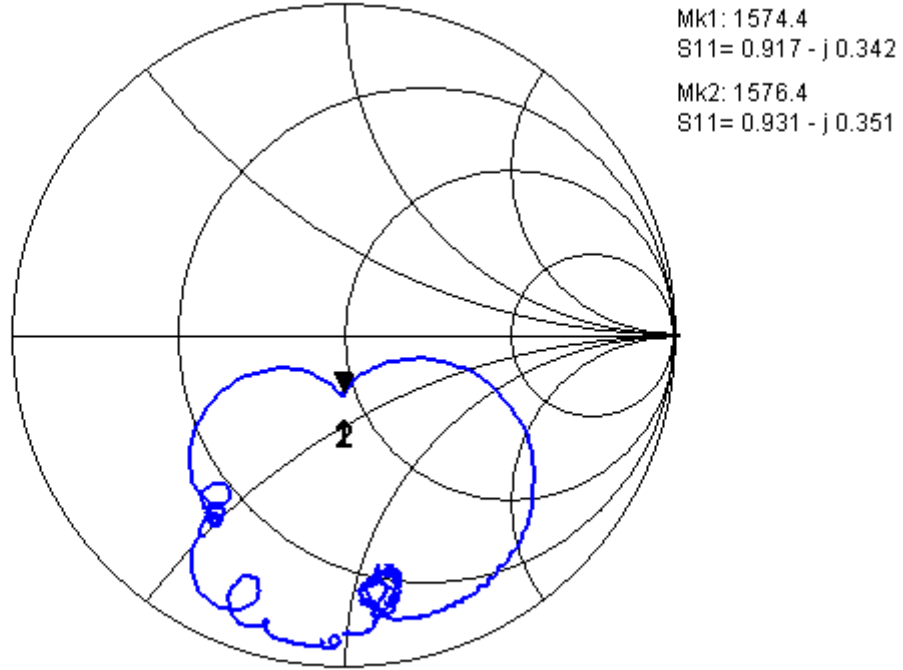


Fig.5 Input Impedance

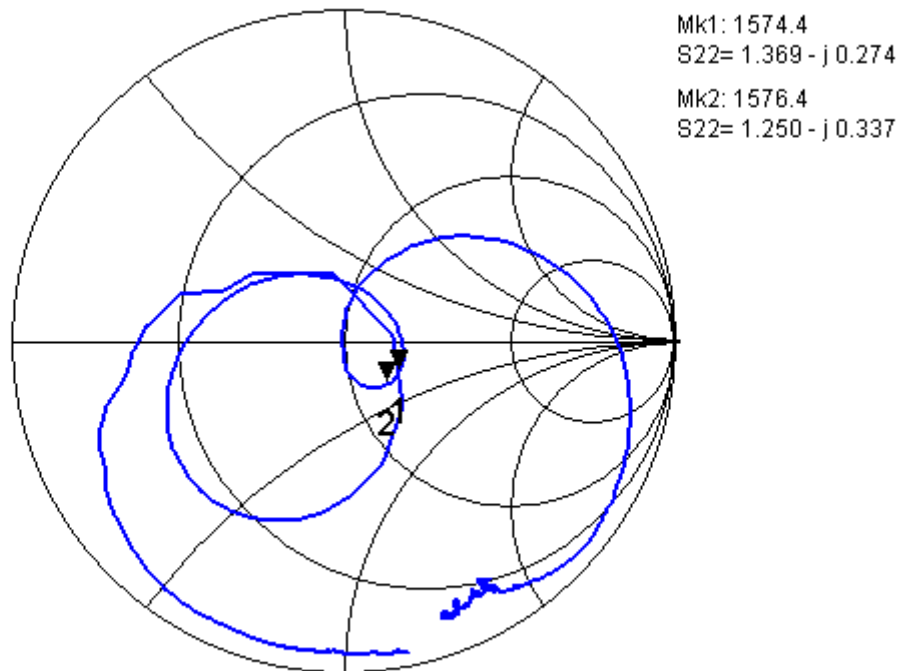


Fig.6 Output Impedance

| | | | |
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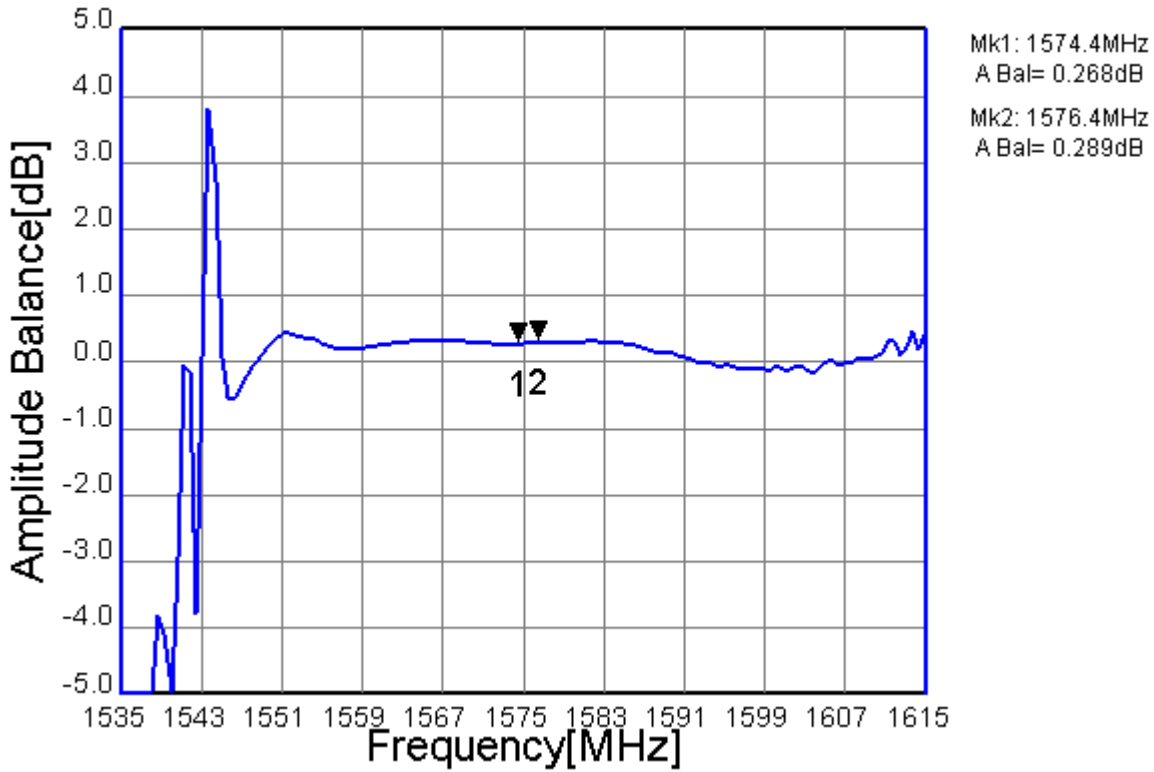


Fig.7 Amplitude Balance

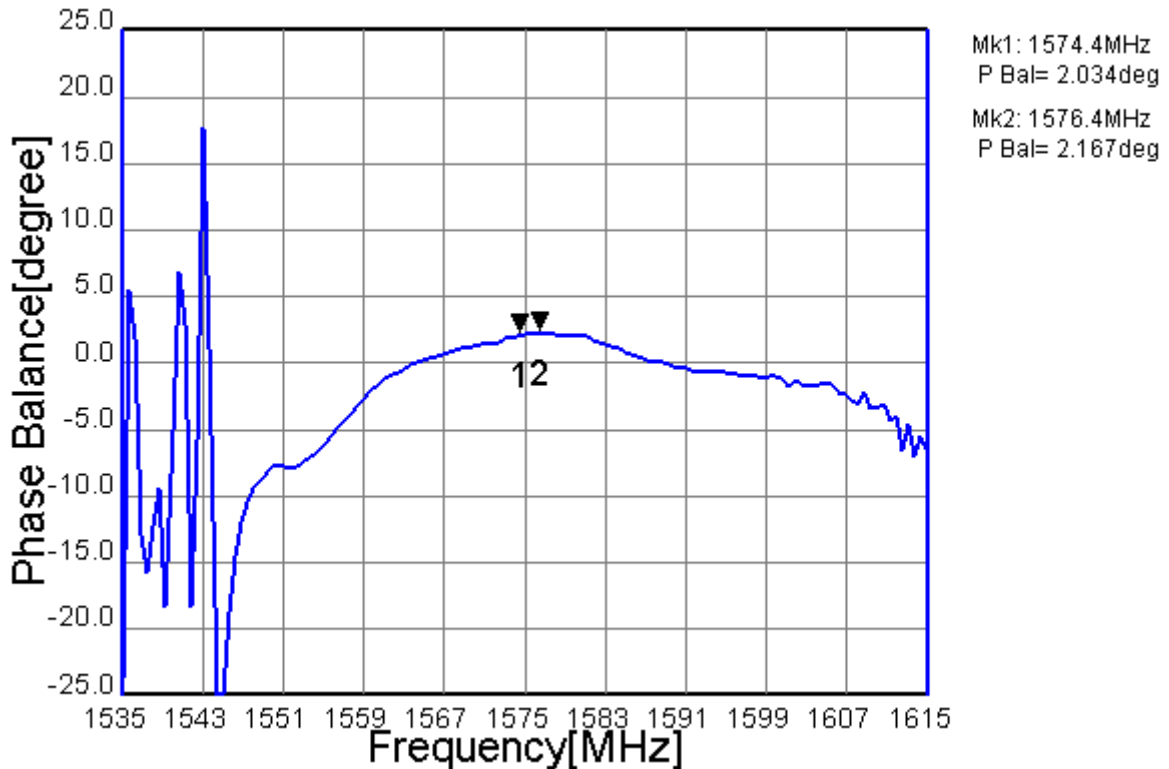


Fig.8 Phase Balance