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|-----------------|-------------------------------|-------------------------------|----------------|
| Customer Name | Standard Specification | FUJITSU MEDIA DEVICES LIMITED | |
| System | DCS-Rx(50/150ohm) | DATE | Sept. 25, 2003 |
| FMD Part Number | FAR-F6EB-1G8425-B2BC | Version 5.4c | |
| Customer No. | | Reference No. | |

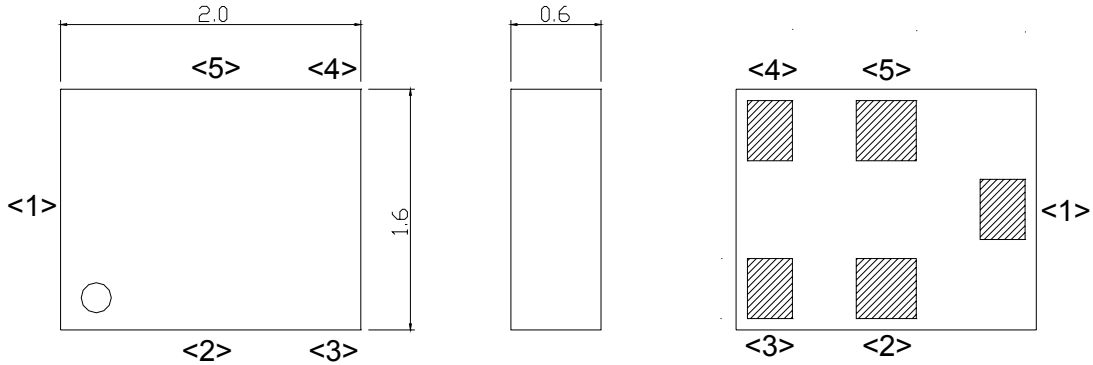
Table 1 Electrical Specification

| Passband : 1805 ~ 1880 MHz | | | | | | |
|---|--------------------|-------------------------|---------------|------|------|---------|
| Item | Condition (MHz) | Specification | | | Unit | Remarks |
| | | Min. | Typ. | Max. | | |
| Insertion Loss | 1805 ~ 1880 | - | 2.2 | 3.3 | dB | |
| Ripple | 1805 ~ 1880 | - | 1.0 | 2.0 | dB | |
| Absolute attenuation | DC ~ 1300 | 35 | 43 | - | dB | |
| | 1300 ~ 1705 | 28 | 32 | - | dB | |
| | 1705 ~ 1785 | 14 | 19 | - | dB | +25 °C |
| | | 10 | - | - | dB | |
| | 1920 ~ 1980 | 14 | 22 | - | dB | |
| | 1980 ~ 2500 | 25 | 29 | - | dB | |
| | 2500 ~ 3840 | 24 | 32 | - | dB | |
| 3840 ~ 6000 | 25 | 42 | - | dB | | |
| VSWR | 1805 ~ 1880 | - | 2.0 | 2.7 | - | |
| VSWR(Output) | 1805 ~ 1880 | - | 2.0 | 2.7 | - | |
| Amplitude balance (S ₂₁ /S ₃₁) | 1805~1880 | -2.0 | -1.5/ +1.0 | +1.5 | dB | |
| Phase balance (∠S ₂₁ -∠S ₃₁)+180) | 1805~1880 | -15 | -10/ +5 | +10 | deg. | |
| Input impedance | Unbalance | 50 | | | ohm | |
| Output impedance | Balance | 150//12nH | | | ohm | |
| Input Power | 1805~1880 MHz | - | - | +12 | dBm | |
| Operating temperature | | -30 ~ +85 | | | °C | |
| Device Size | | 2.0typ.x1.6typ.x0.6max. | | | mm | |

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Dimensions

Device size: 2.0typ. x 1.6typ. x 0.6max

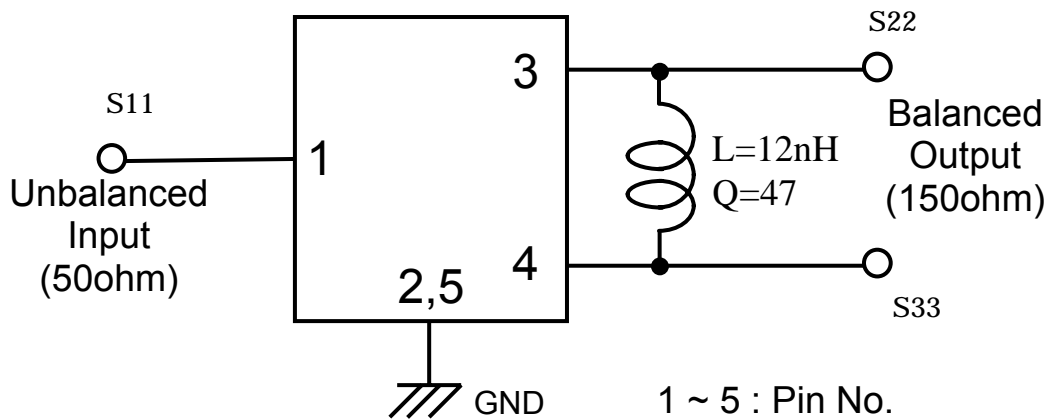


Unit : mm

Pin Configuration

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

Evaluation Circuit



| | | | |
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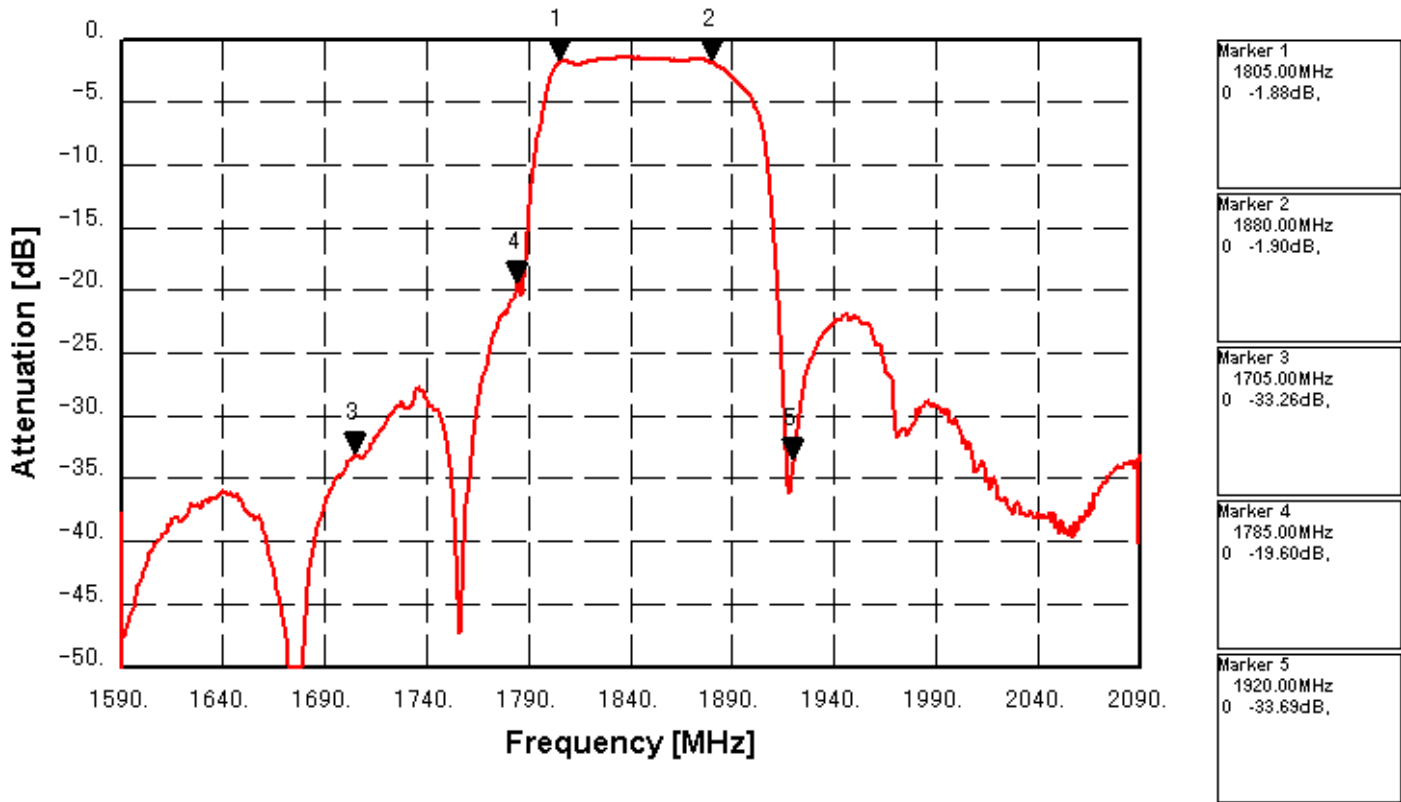


Fig.1 Pass-band Characteristics

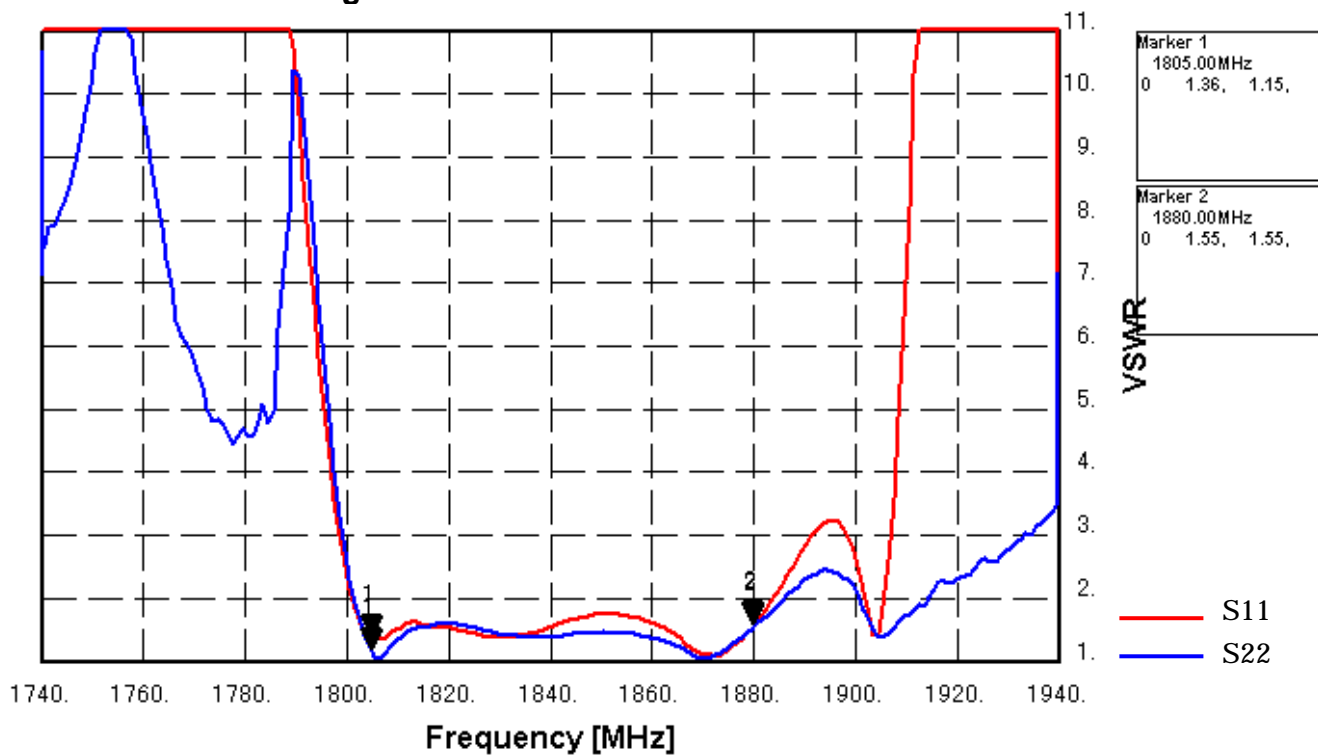


Fig.2 VSWR

| | | | |
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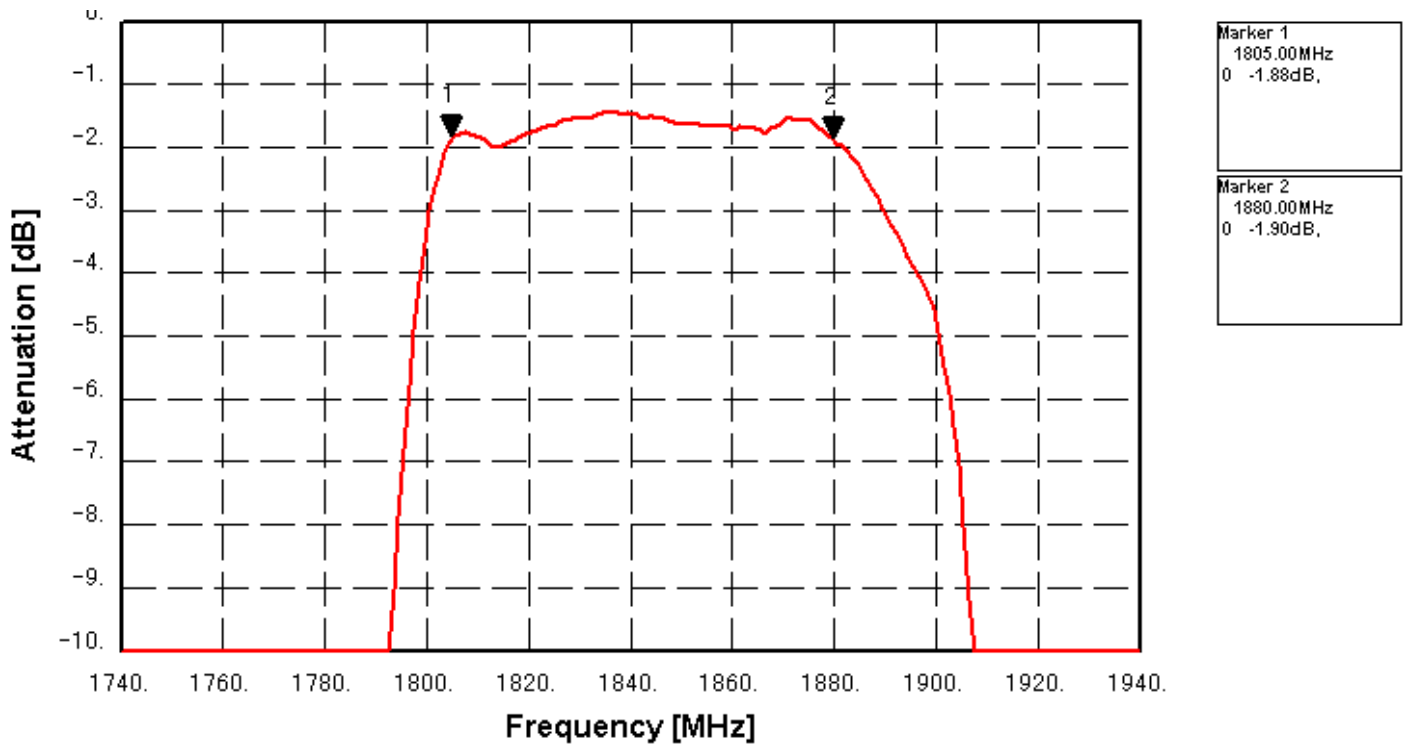


Fig.3 In-band Characteristics

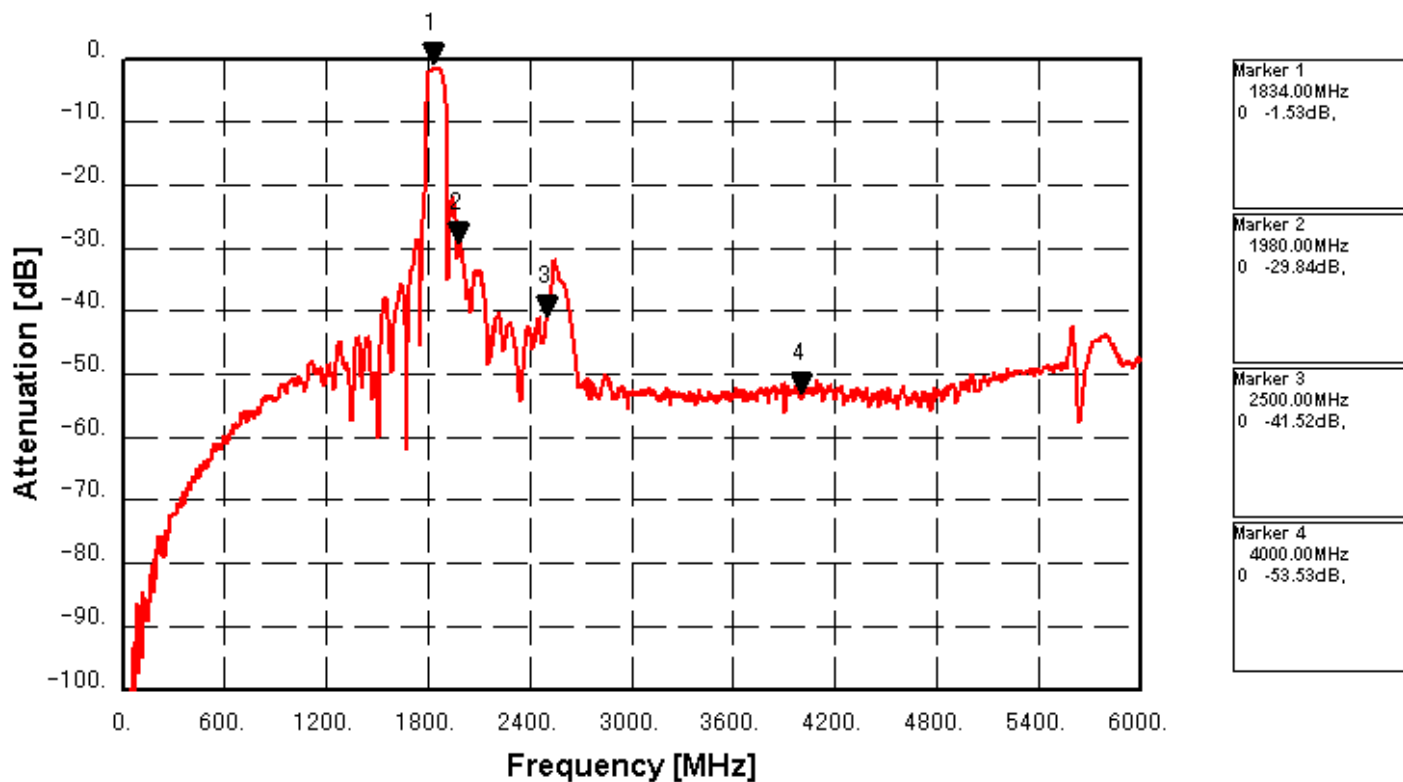
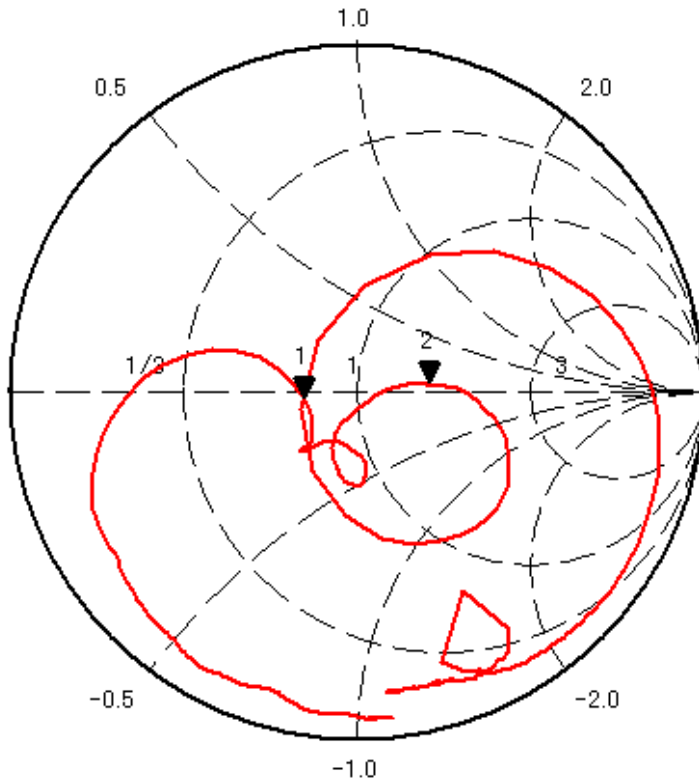


Fig.4 Wide-band Characteristics

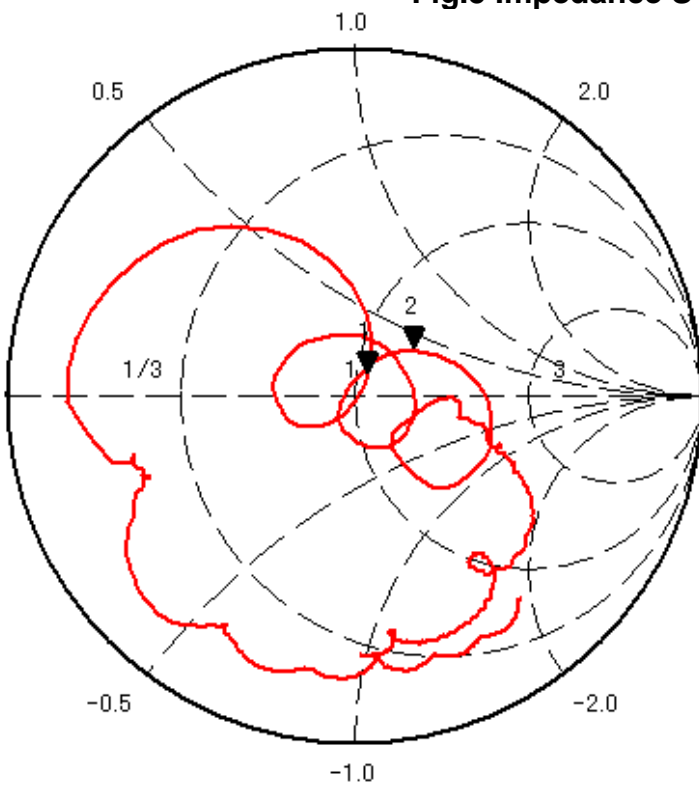
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Marker 1
1805.00MHz

Marker 2
1880.00MHz

Fig.5 Impedance S11



Marker 1
1805.00MHz

Marker 2
1880.00MHz

Fig.6 Impedance S22

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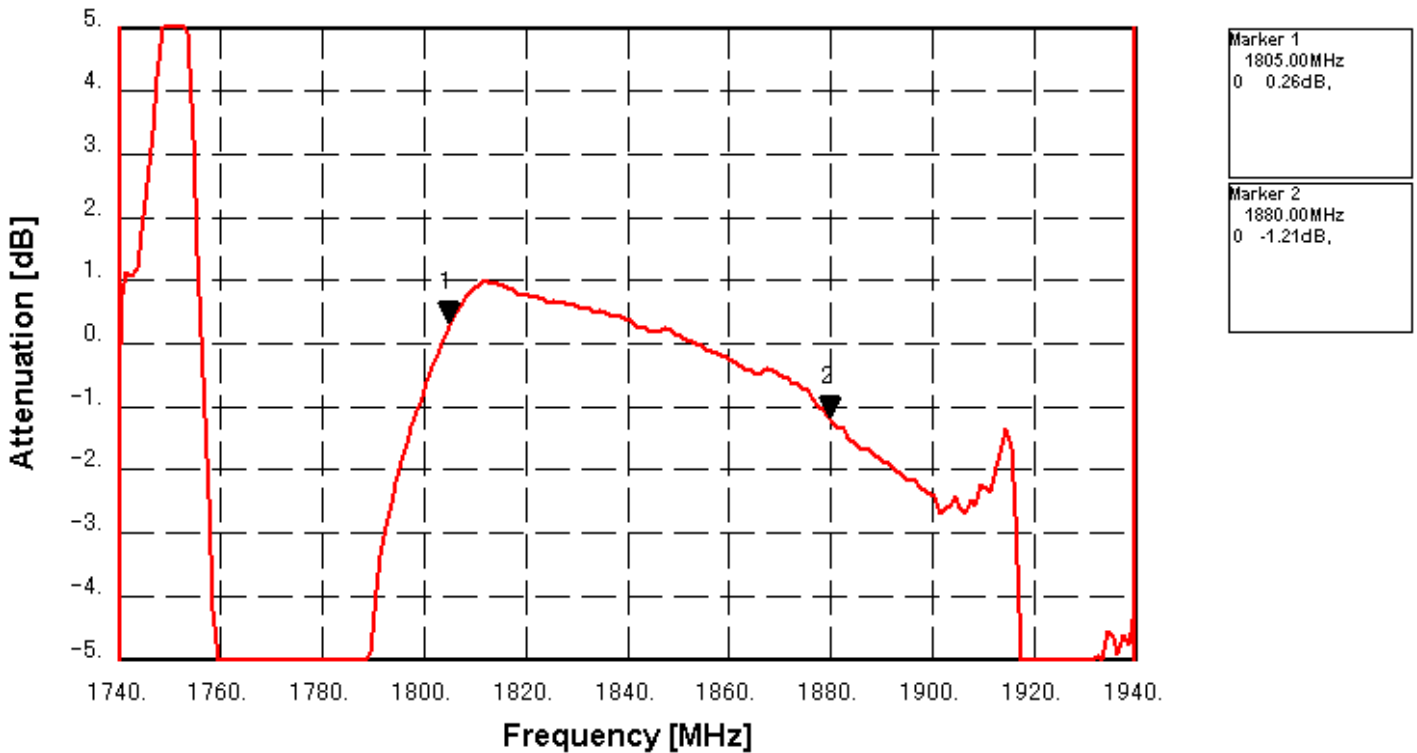


Fig.7 Amplitude Balance

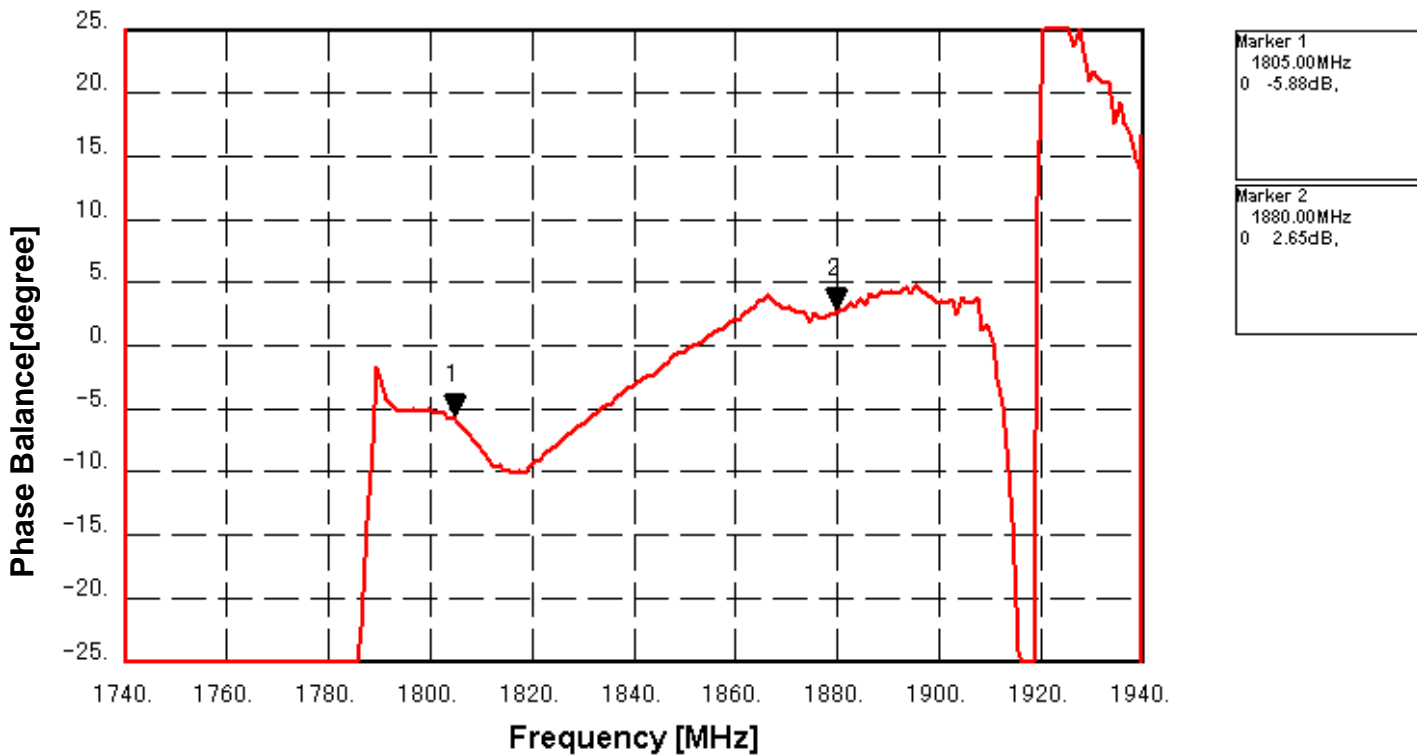


Fig.8 Phase Balance