



MSL1

* Pb Free Part

| | | | |
|---------------|-------------------------------|--|----------------|
| Customer Name | Standard Specification | TAIYO YUDEN Mobile Technology Co.,Ltd. | |
| System | GSM850 Rx (50/150ohms) | Date | March 31, 2010 |
| Part Number | FAR-F5KB-881M50-B4EA | Version 3.1c | |

Table 1. Electrical specifications

| Passband: 869 ~ 894 MHz | | | | | | |
|--|--------------------|-----------------------------|---------------|------|------|---------|
| Item | Condition (MHz) | Specification | | | Unit | Remarks |
| | | Min. | Typ. | Max. | | |
| Insertion Loss | 869~894 | - | 1.7 | 2.4 | dB | |
| Ripple | 869~894 | - | 0.6 | 1.5 | dB | |
| Absolute attenuation | DC~824 | 45 | 66 | - | dB | |
| | 824~849 | 30 | 53 | - | dB | |
| | 914~960 | 22 | 33 | - | dB | |
| | 960~2000 | 38 | 55 | - | dB | |
| | 2000~6000 | 25 | 41 | - | dB | |
| VSWR (Input) | 869~894 | - | 1.6 | 2.1 | - | |
| VSWR (Output) | 869~894 | - | 1.7 | 2.1 | - | |
| Amplitude balance (S ₂₁ /S ₃₁) | 869~894 | -0.8 | -0.1/ +0.4 | +0.8 | dB | |
| Phase balance ((∠S ₂₁ -∠S ₃₁)+180) | 869~894 | -7 | -0.7/ +2.5 | +7 | deg. | |
| Input Impedance | Unbalanced | 50 | | | Ohm | |
| Output Impedance | Balance | 150 | | | Ohm | |
| Input Power | 869~894 | - | - | +13 | dBm | |
| Operating Temperature | | -30 ~ +85 | | | °C | |
| Device size | | 1.4typ. x 1.0typ. x 0.5Typ. | | | mm | |



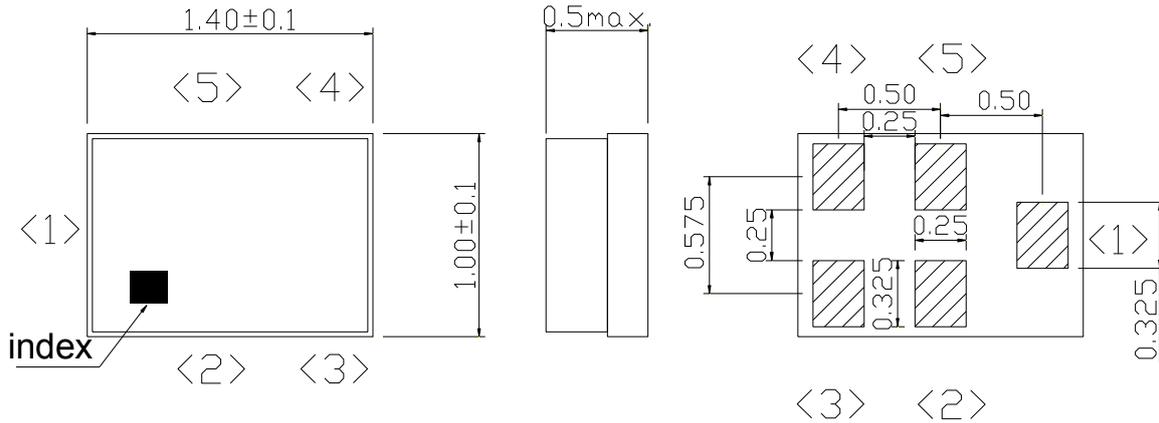
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Dimensions

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

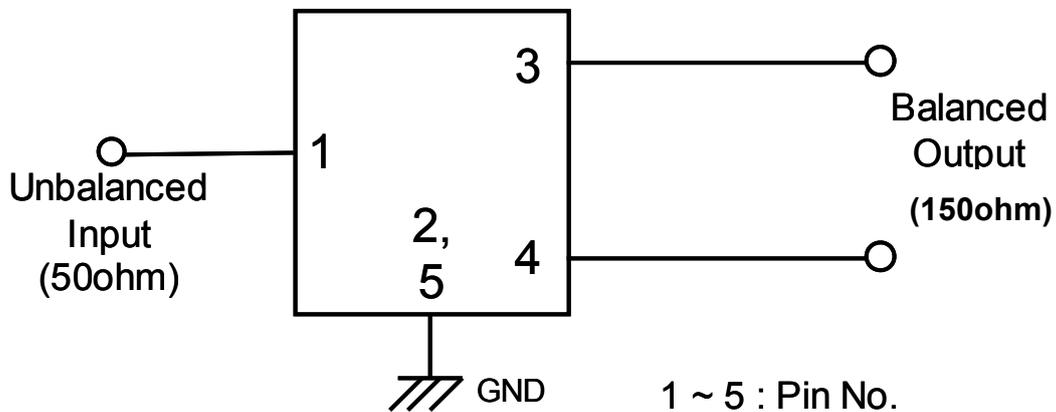


Unit: mm

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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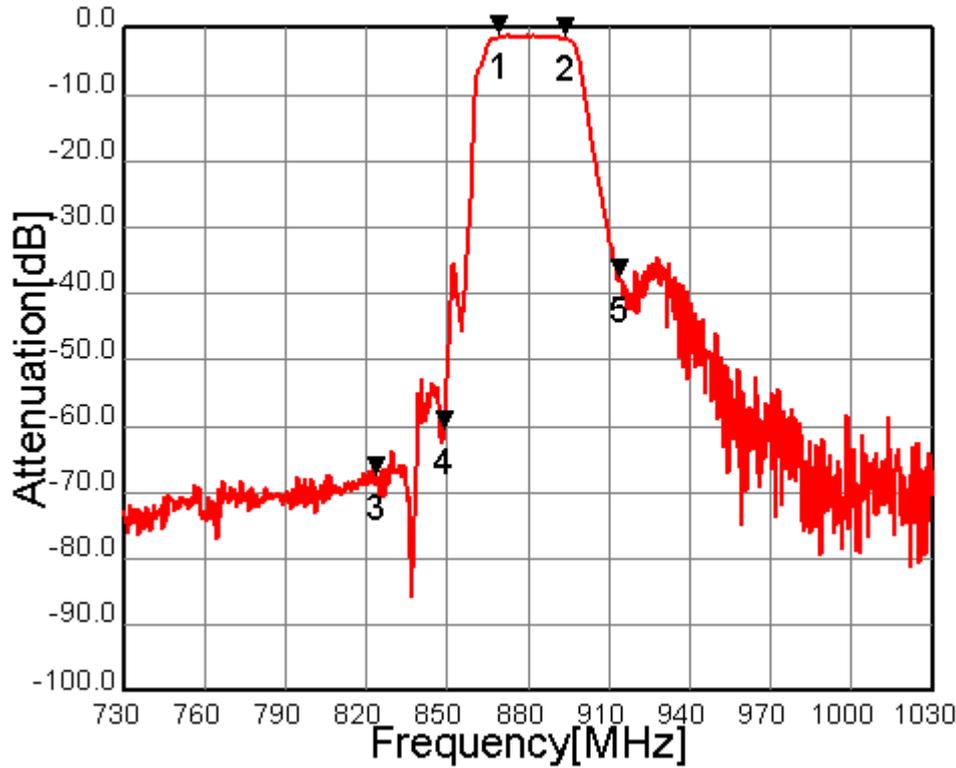


Fig.1 Pass-band Characteristics

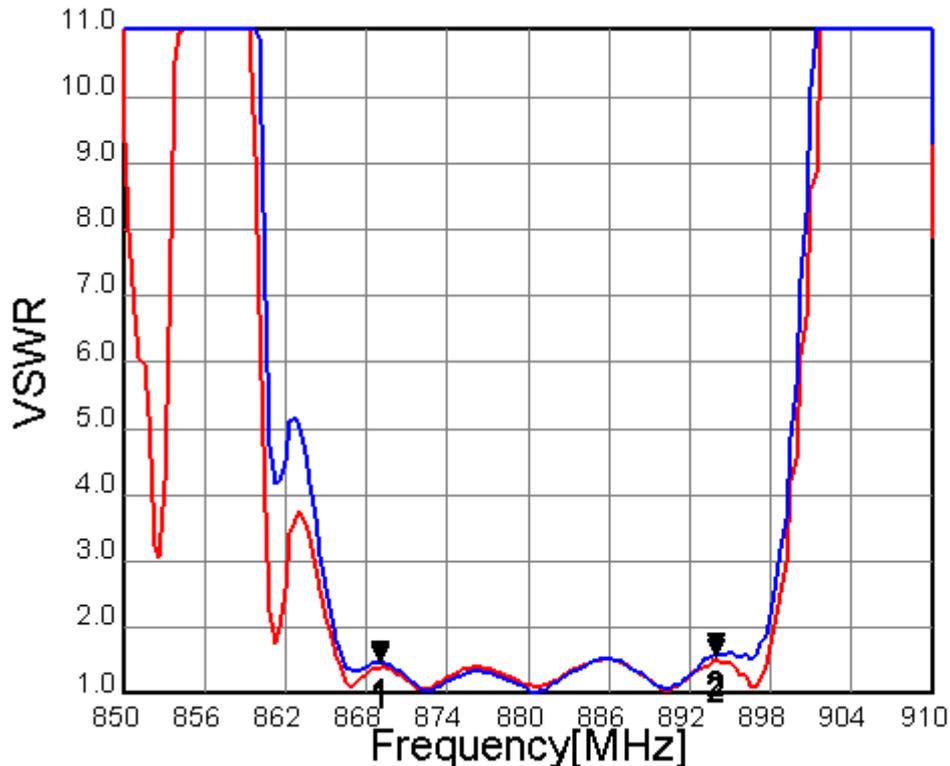


Fig.2 VSWR

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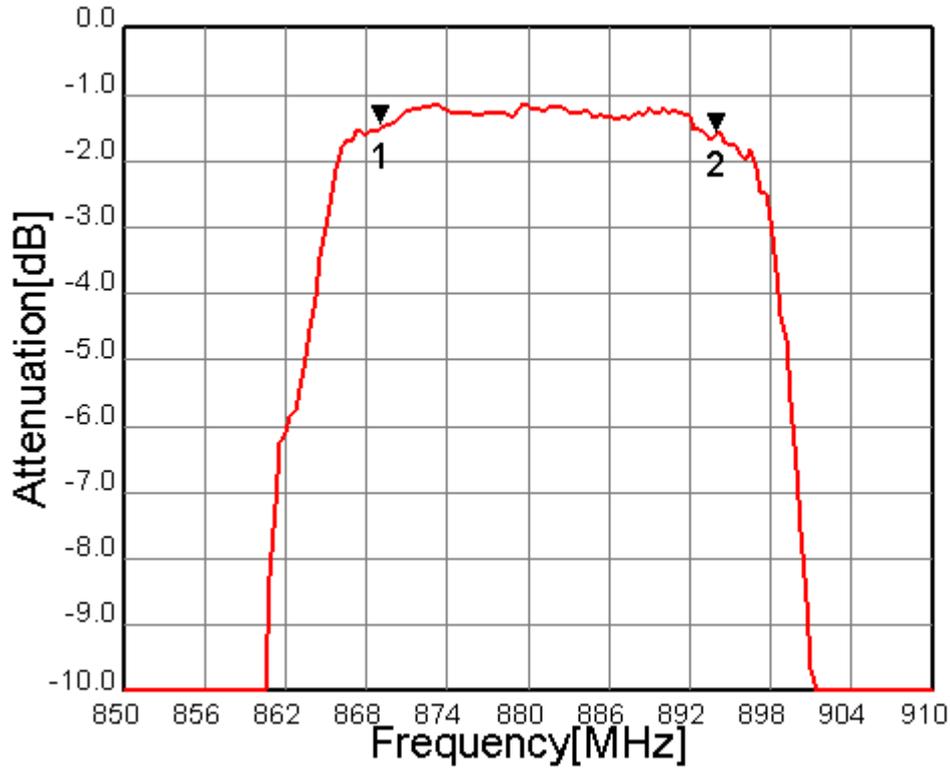


Fig.3 In-band Characteristics

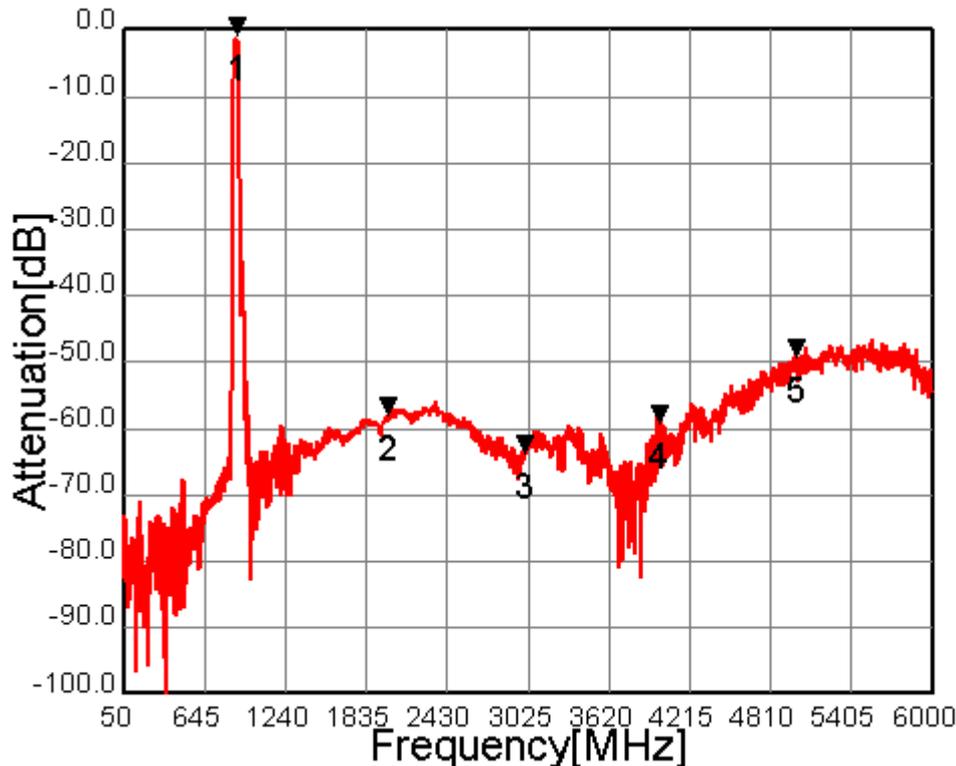


Fig.4 Wide-band Characteristics

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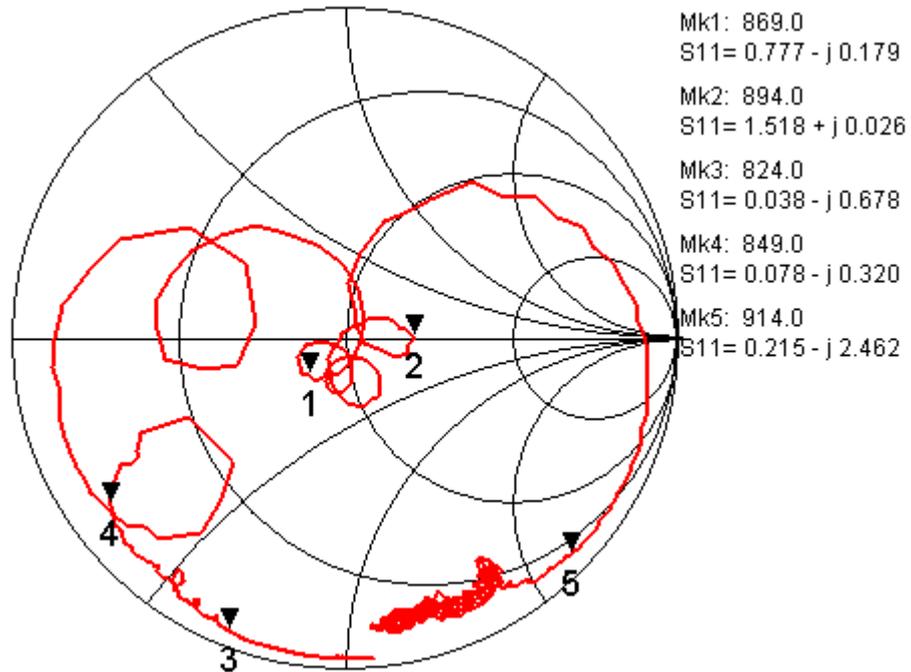


Fig.5 Input Impedance (Unbalance)

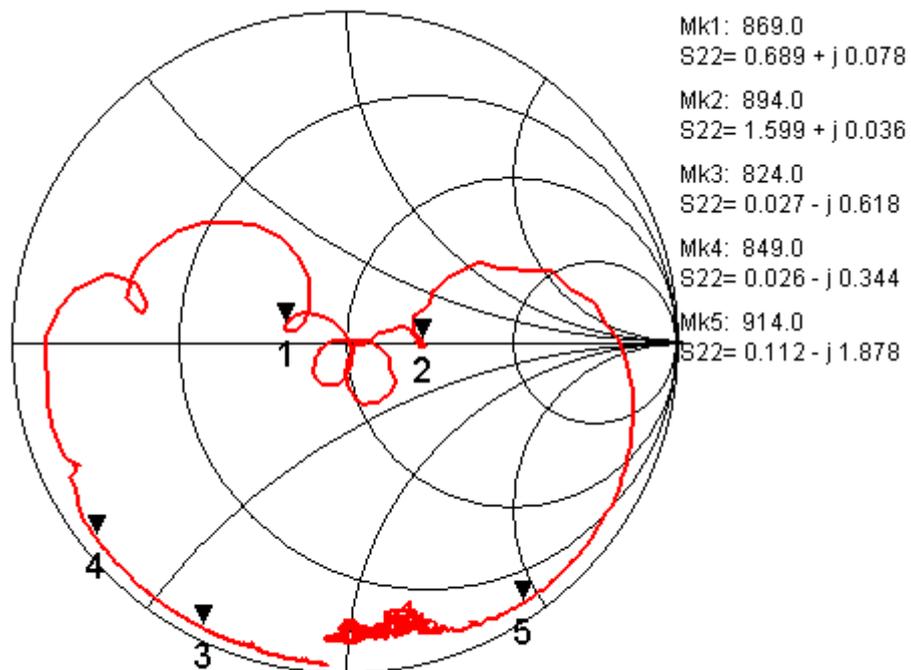


Fig.6 Output Impedance (Balance)



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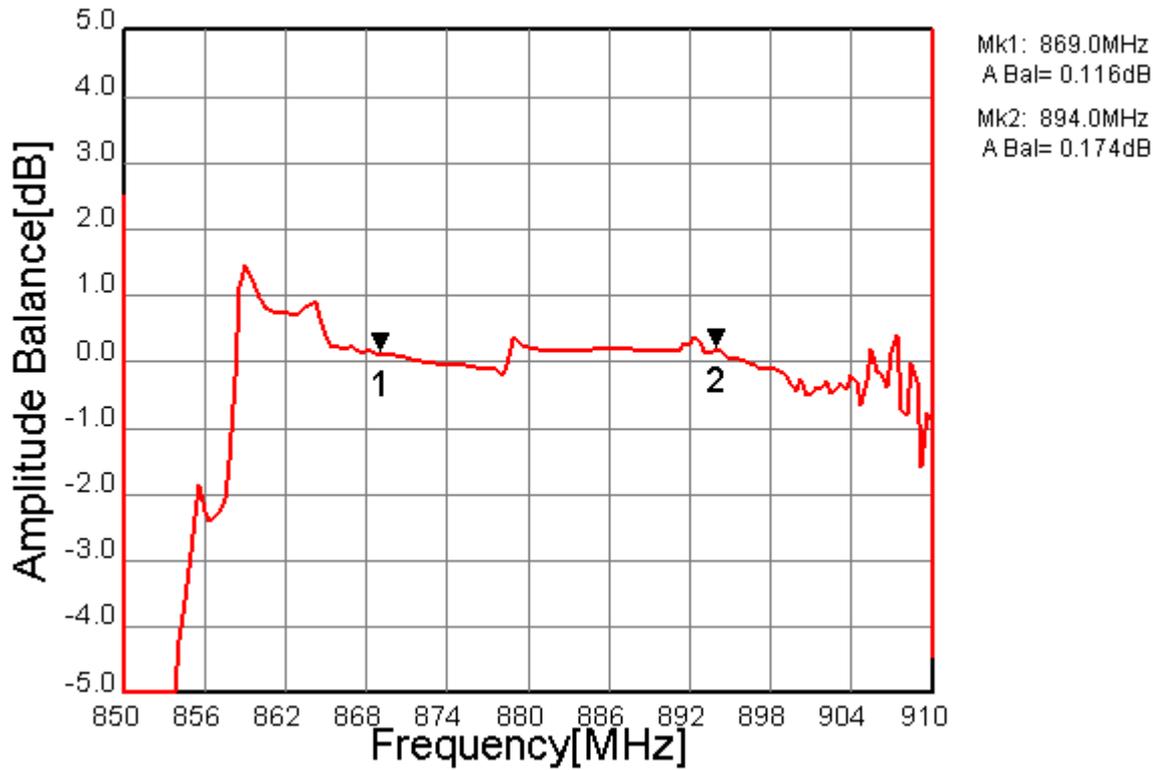


Fig.7 Amplitude Balance

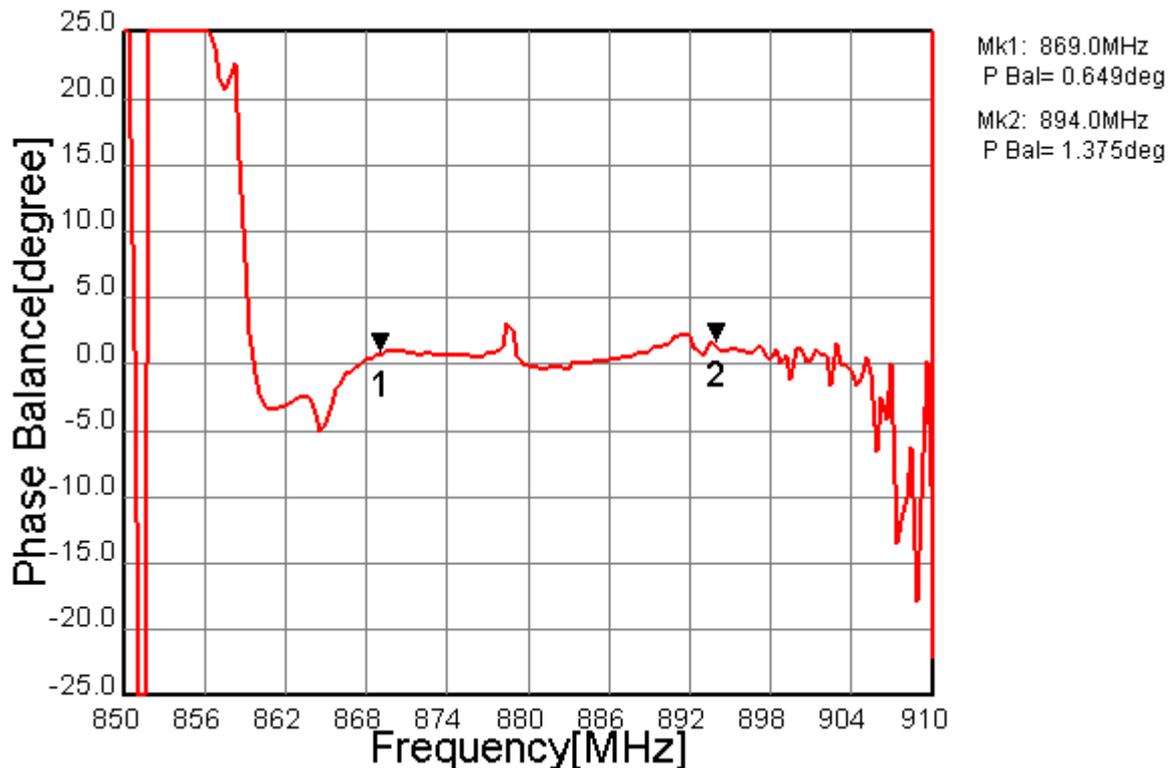


Fig.8 Phase Balance