



MSL1

\* Pb Free Part

|               |                          |  |               |
|---------------|--------------------------|--|---------------|
| Customer Name | Standard Specification   | TAIYO YUDEN Mobile Technology Co.,Ltd. |               |
| System        | Band 12 Rx ( 50/100ohm ) | Date                                   | May. 23, 2014 |
| Part Number   | F5QG737M5P2KK            | Version 1.0a                           | <b>Final</b>  |

**Table 1 Electrical Specifications**

| Passband: 729 ~ 746 MHz                        |                 |               |          |      |      |            |  |
|--|-----------------|---------------|----------|------|------|------------|--|
| Item   | Condition (MHz) | Specification |          |      | Unit | Remarks    |  |
|  |                 | Min.          | Typ.     | Max. |      |            |  |
| Insertion Loss                                 | 729~746         | -             | 1.6      | 2.5  | dB   | (*1)       |  |
| Ripple   | 729~746         | -             | 0.5      | 1.5  | dB   |            |  |
| VSWR   | Input           | 729~746       | -        | 1.8  | 2.1  | -          |  |
|  | Output          |               | -        | 1.8  | 2.1  | -          |  |
| Absolute Attenuation                           | 10~698          | 40            | 59       | -    | dB   |            |  |
|  | 699~716         | 48            | 55       | -    | dB   |            |  |
|  | 791~4000        | 35            | 45       | -    | dB   |            |  |
|  | 4000~6000       | 30            | 48       | -    | dB   |            |  |
| Amplitude Balance<br> S21/S31                  | 729~746         | -1            | -0.1/0.2 | 1    | dB   |            |  |
| Phase Balance<br>( $\phi$ S21- $\phi$ S31)+180 | 729~746         | -10           | -1/1     | 10   | deg. |            |  |
| Input Impedance                                |                 | 50            |          |      | ohm  | Unbalanced |  |
| Output Impedance                               |                 | 100           |          |      | ohm  | Balanced   |  |
| Operating Temperature                          |                 | -30 to +85    |          |      | °C   |            |  |

(\*1) Specification of insertion loss includes loss that comes from the test board.(0.05dB)



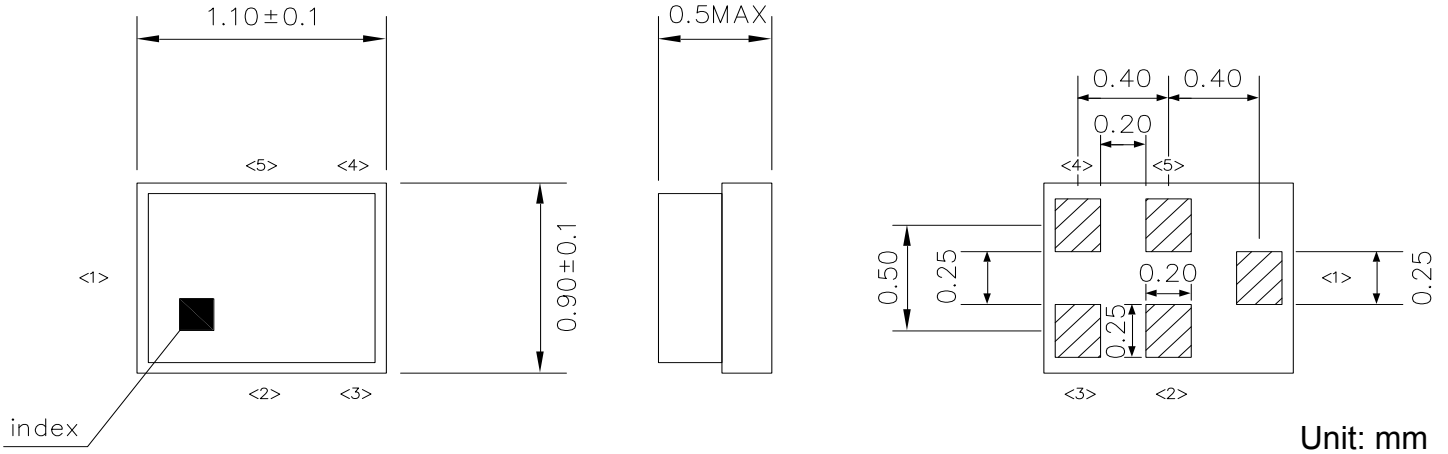
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### Dimensions

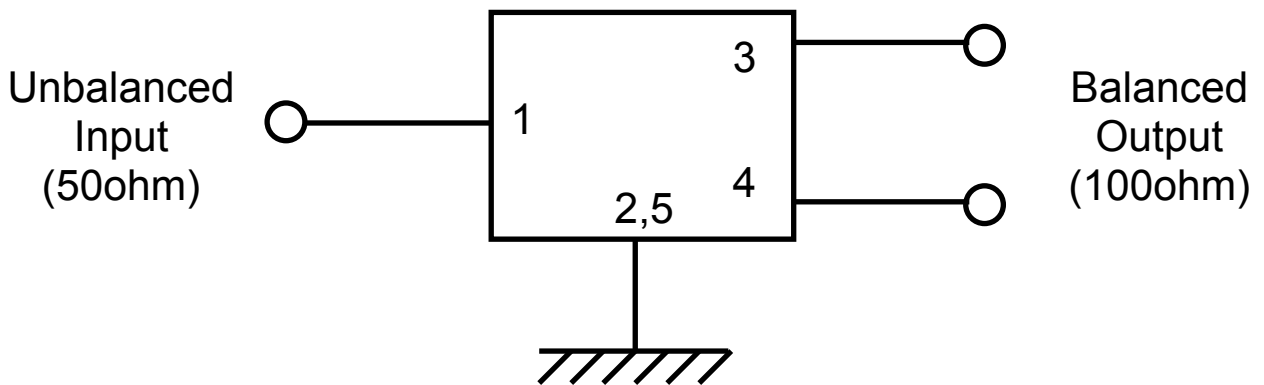
Device size: 1.1typ. x 0.9typ. x 0.5max.



### 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 Condition





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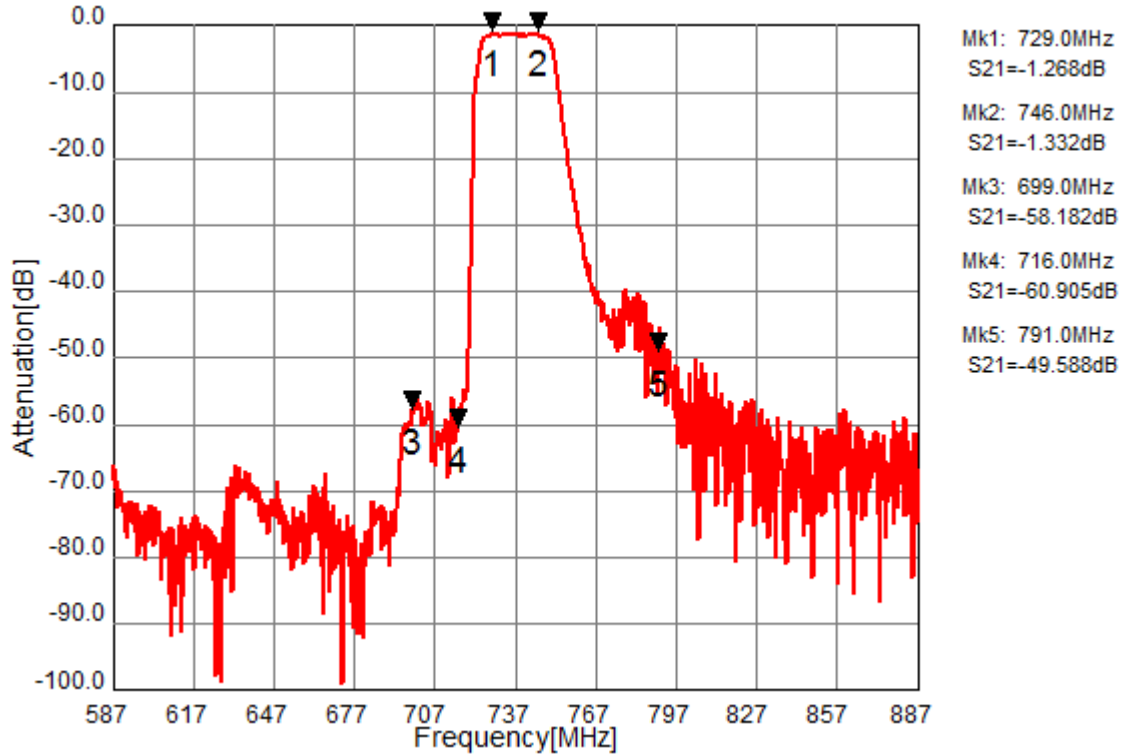


Fig.1 Pass-band Characteristic

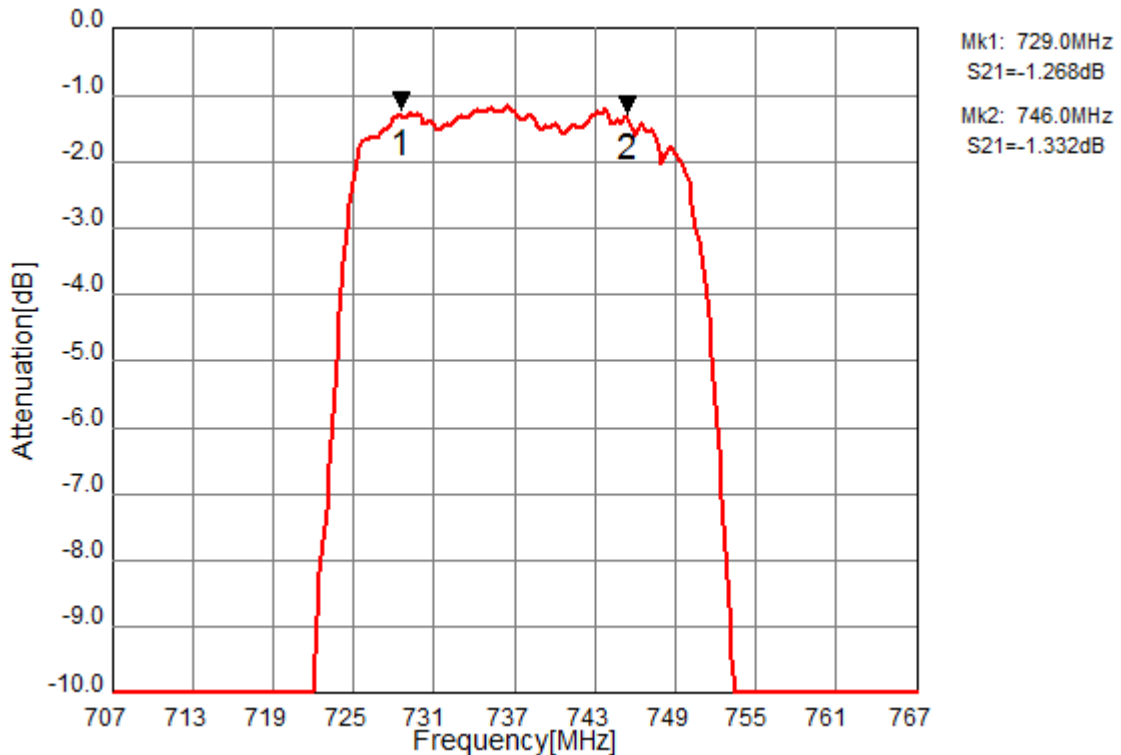


Fig.2 In-band Characteristic



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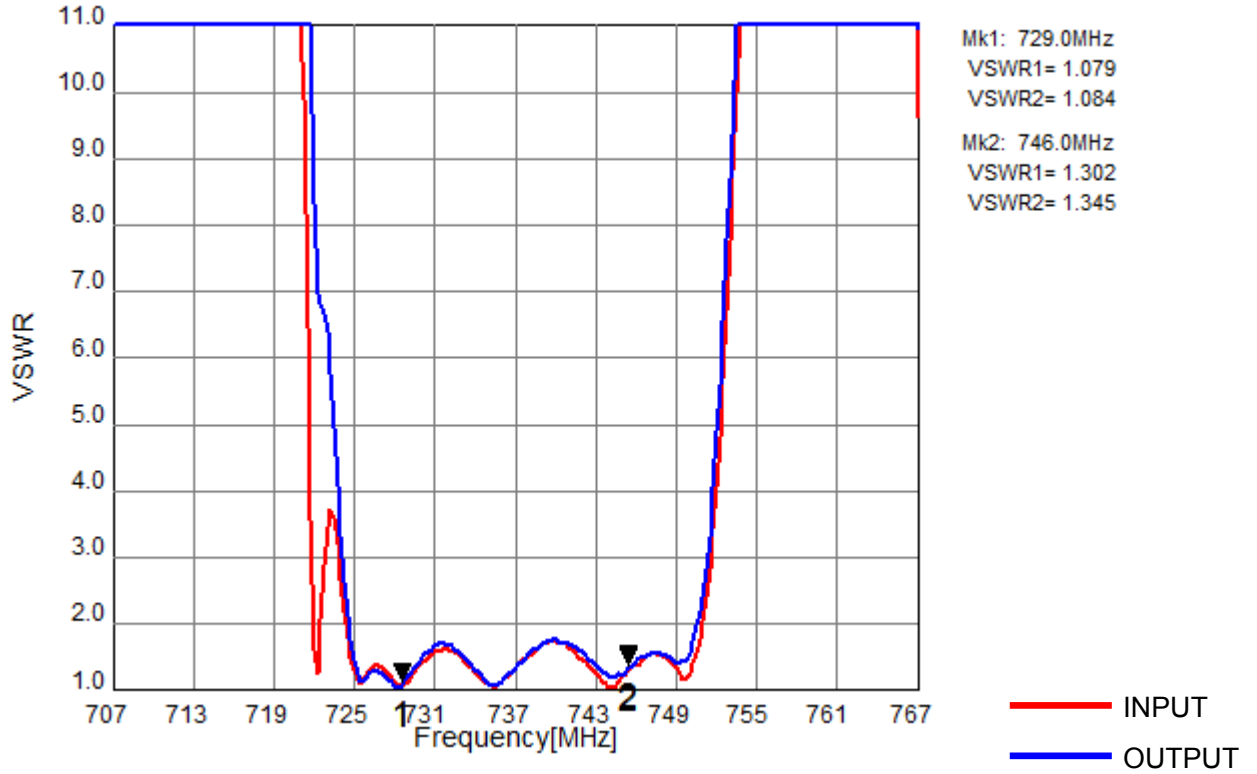


Fig.3 VSWR

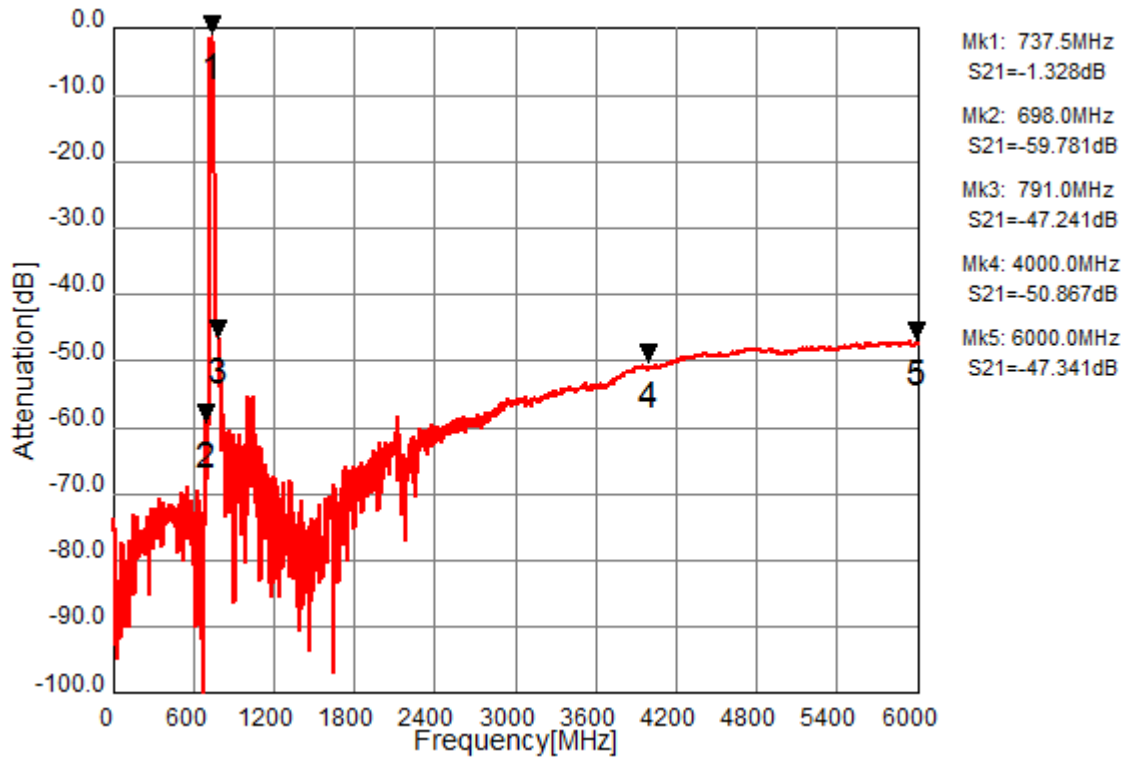


Fig.4 Wide-band Characteristic

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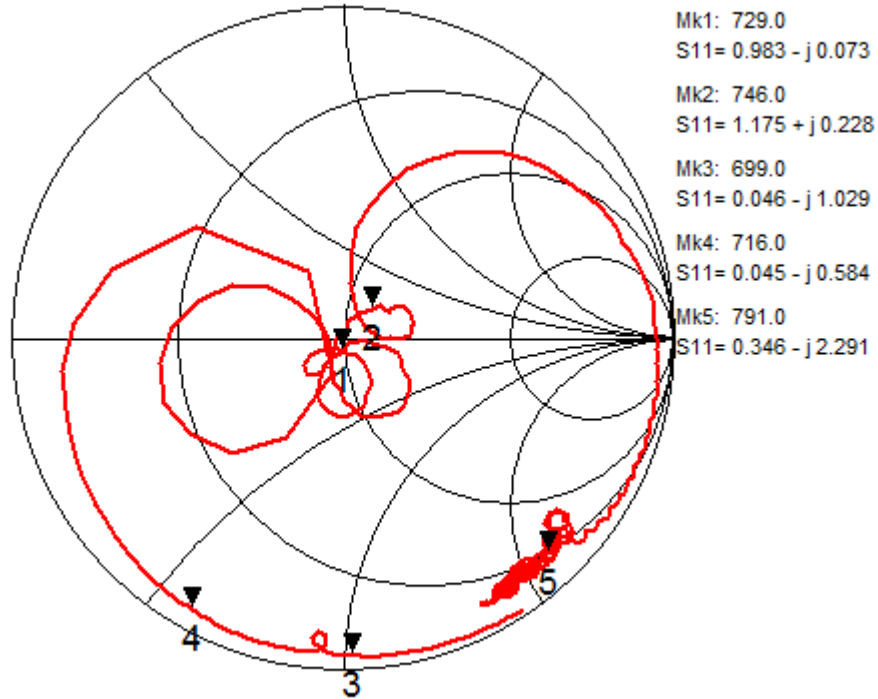


Fig.5 Impedance (INPUT)

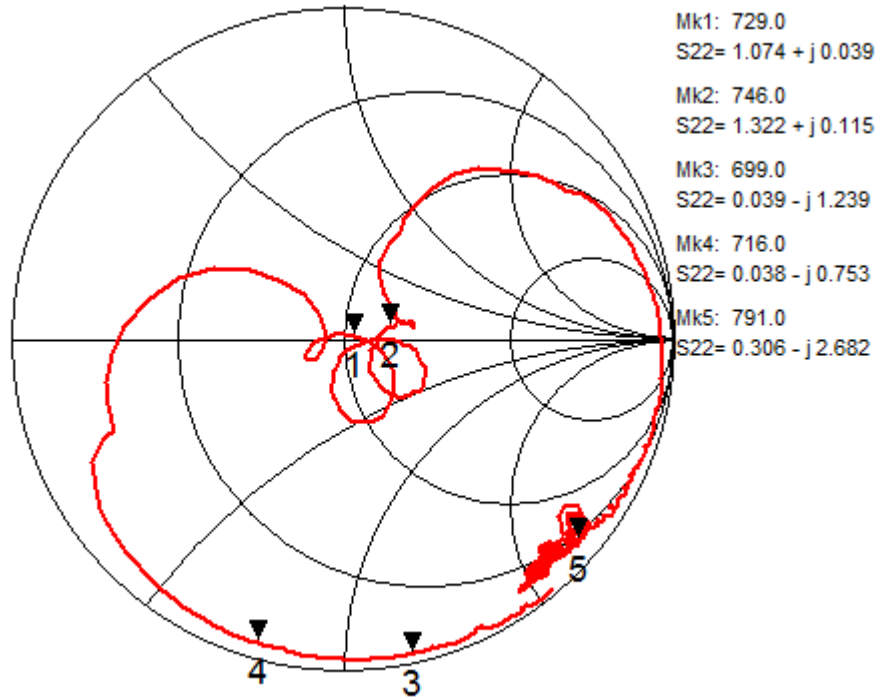


Fig.6 Impedance (OUTPUT)



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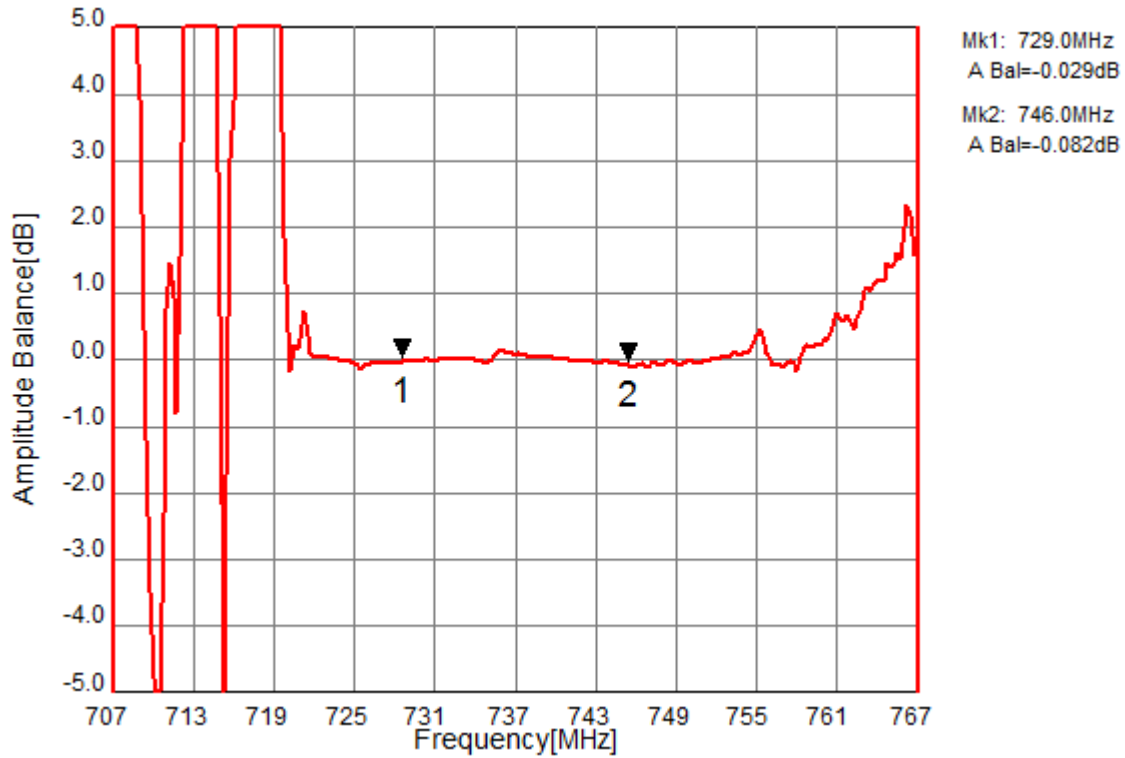


Fig.7 Amplitude Balance

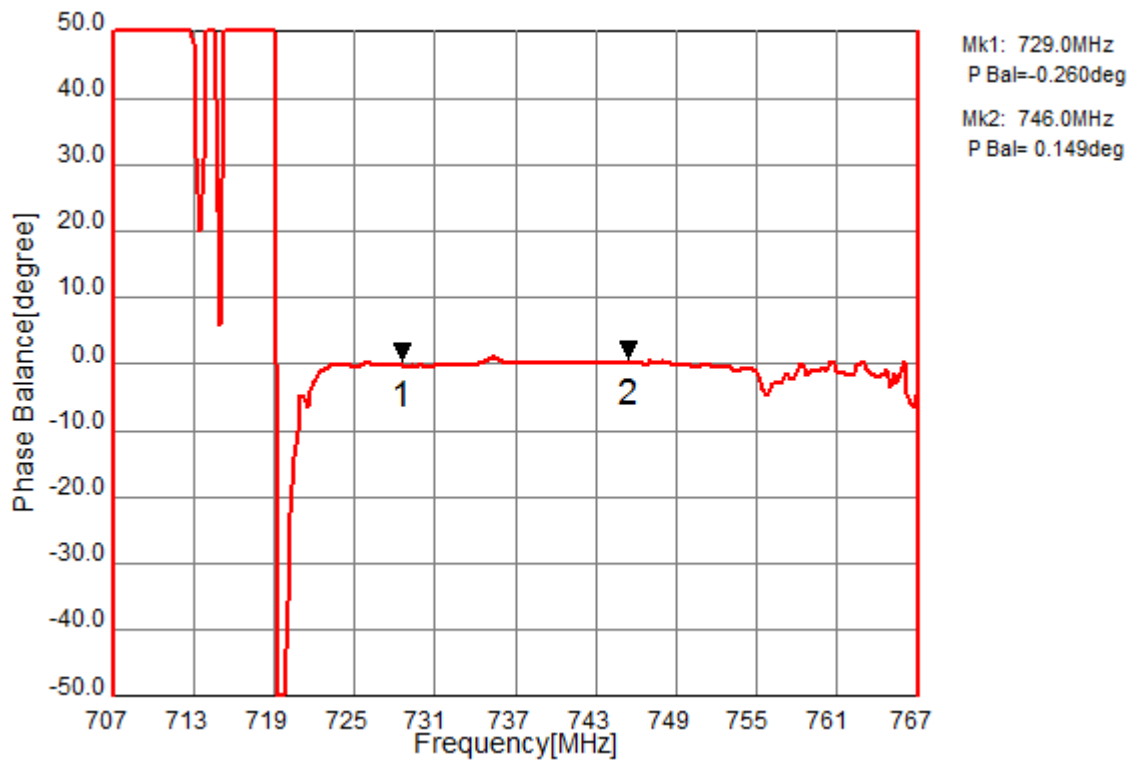


Fig.8 Phase Balance