



MSL1

\* Pb Free Part

|               |                        |  |                |
|---------------|------------------------|--|----------------|
| Customer Name | Standard specification | TAIYO YUDEN Mobile Technology Co.,Ltd. |                |
| System        | DCS-Tx (unbalance)     | Date                                   | March 31, 2010 |
| Part Number   | FAR-F6KA-1G7475-D4CY   | Version 3.0c                           |                |

Table 1. Electrical specification

| Passband: 1710 ~ 1785 MHz |                 |                         |      |      |      |            |
|---------------------------|-----------------|-------------------------|------|------|------|------------|
| Item                      | Condition       | Specification           |      |      |      | Remark     |
|                           |                 | Min.                    | Typ. | Max. | Unit |            |
| Insertion Loss            | 1710 – 1785 MHz | –                       | 2.5  | 2.9  | dB   | +25+/- 2°C |
|                           |                 | –                       | –    | 3.6  | dB   | – 30~+85°C |
| Ripple                    | 1710 – 1785 MHz | –                       | 1.3  | 2.2  | dB   |            |
| Absolute Attenuation      | DC – 1000 MHz   | 35                      | 45   | –    | dB   |            |
|                           | 1000 – 1600 MHz | 25                      | 33   | –    | dB   |            |
|                           | 1600 – 1690 MHz | 6                       | 9    | –    | dB   |            |
|                           | 1805 – 1880 MHz | 26                      | 30   | –    | dB   | +25+/- 2°C |
|                           |                 | 24                      | –    | –    | dB   | – 20~+85°C |
|                           |                 | 20                      | –    | –    | dB   | – 30~+85°C |
|                           | 2000 – 2500 MHz | 30                      | 36   | –    | dB   |            |
|                           | 2500 – 3000 MHz | 25                      | 32   | –    | dB   |            |
|                           | 3000 – 4000 MHz | 20                      | 27   | –    | dB   |            |
| 4000 – 6000 MHz           | 15              | 21                      | –    | dB   |      |            |
| VSWR(Input)               | 1710 – 1785 MHz | –                       | 2.3  | 2.8  | –    |            |
| VSWR(Output)              | 1710 – 1785 MHz | –                       | 2.5  | 3.0  | –    |            |
| Input Impedance           |                 | 50//12nH                |      |      | Ohm  |            |
| Output Impedance          |                 | 50                      |      |      | Ohm  |            |
| Device size               |                 | 1.4typ.x1.0typ.x0.5max. |      |      | mm   |            |
| Operating temp.           |                 | -30 ~ +85               |      |      | °C   |            |



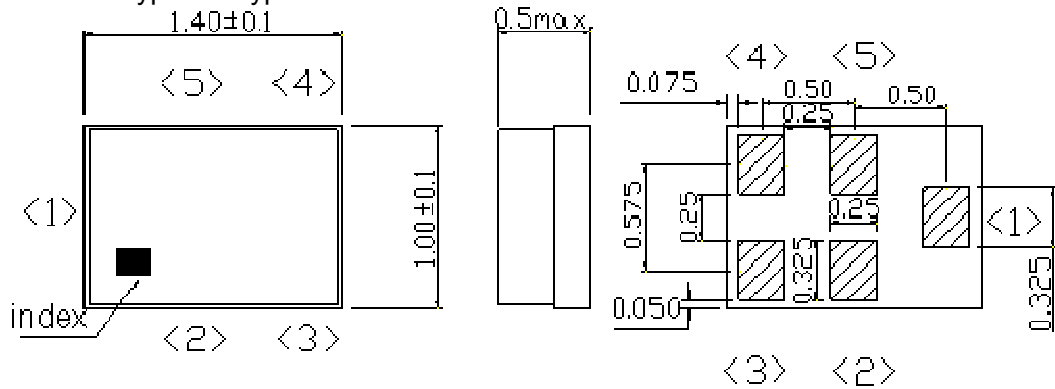
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### Dimensions

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

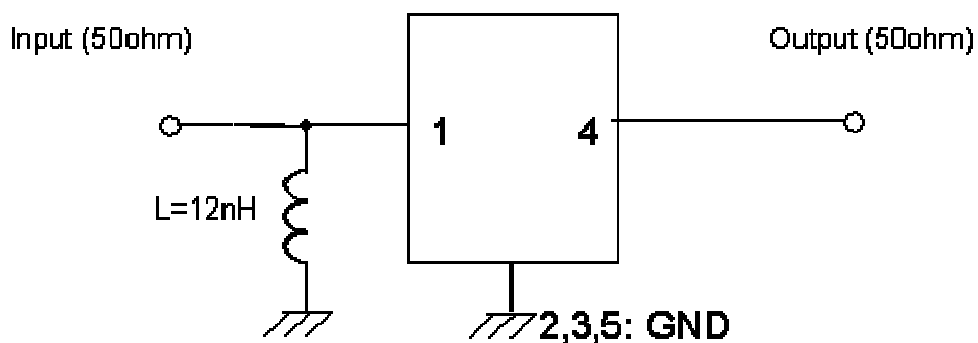


Unit: mm

### Pin Configuration

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

### Evaluation Circuit



1 ~ 5 : Pin No.



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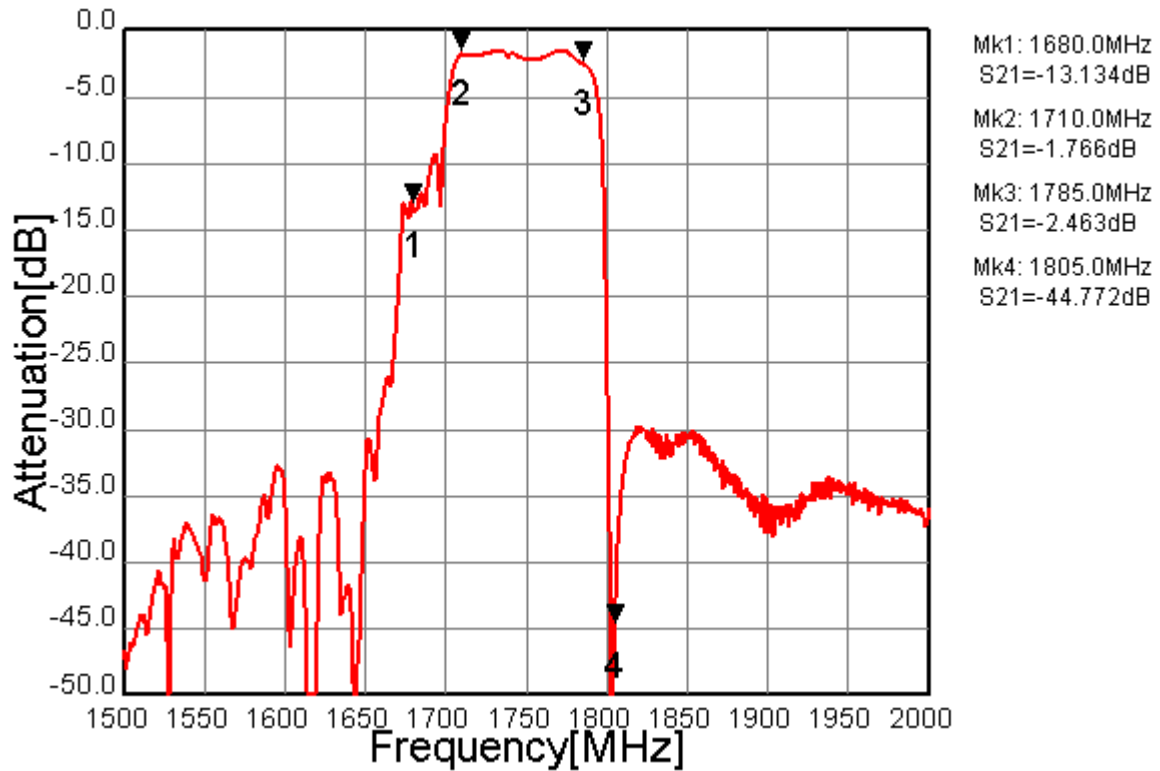


Fig.1 Pass-band Characteristic

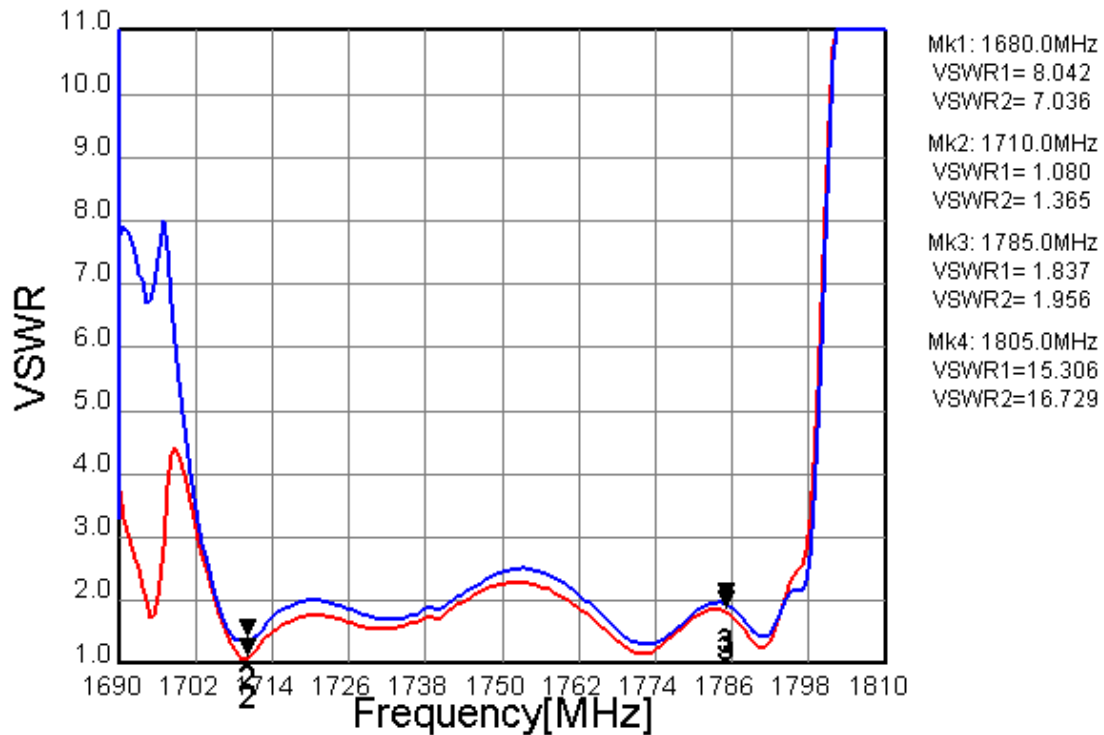


Fig.2 VSWR

— S11  
— S22



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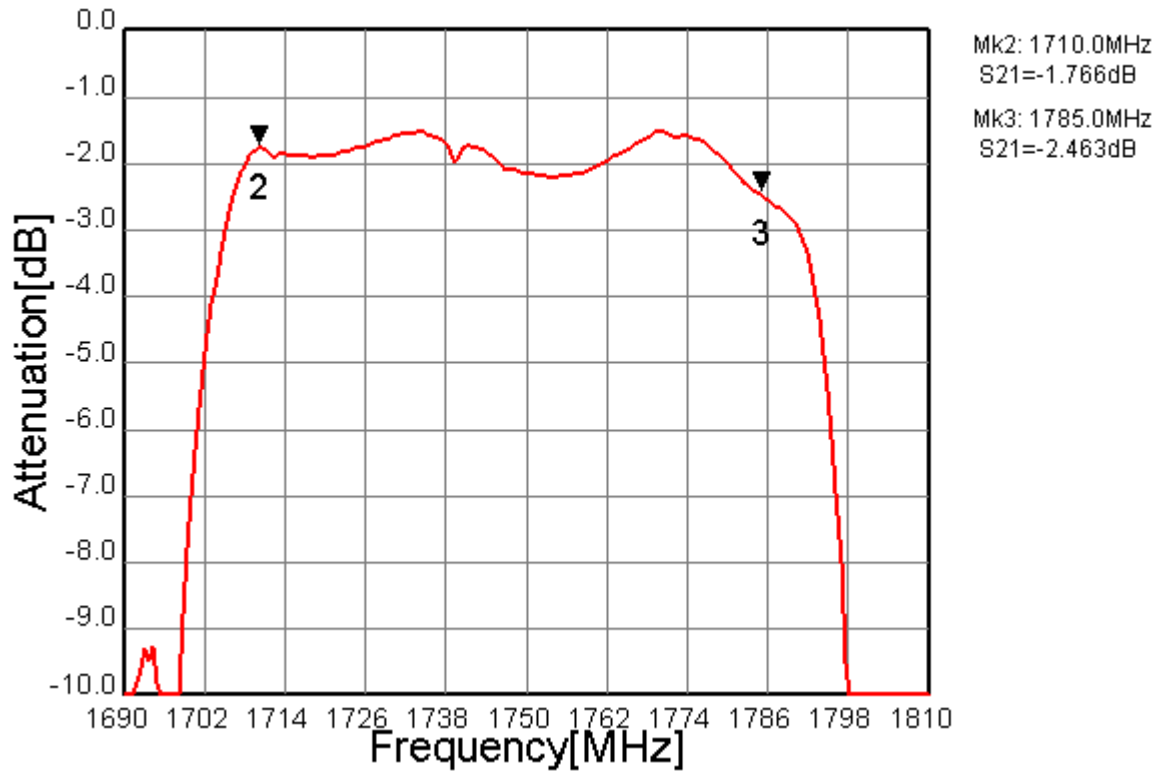


Fig.3 In-band Characteristic

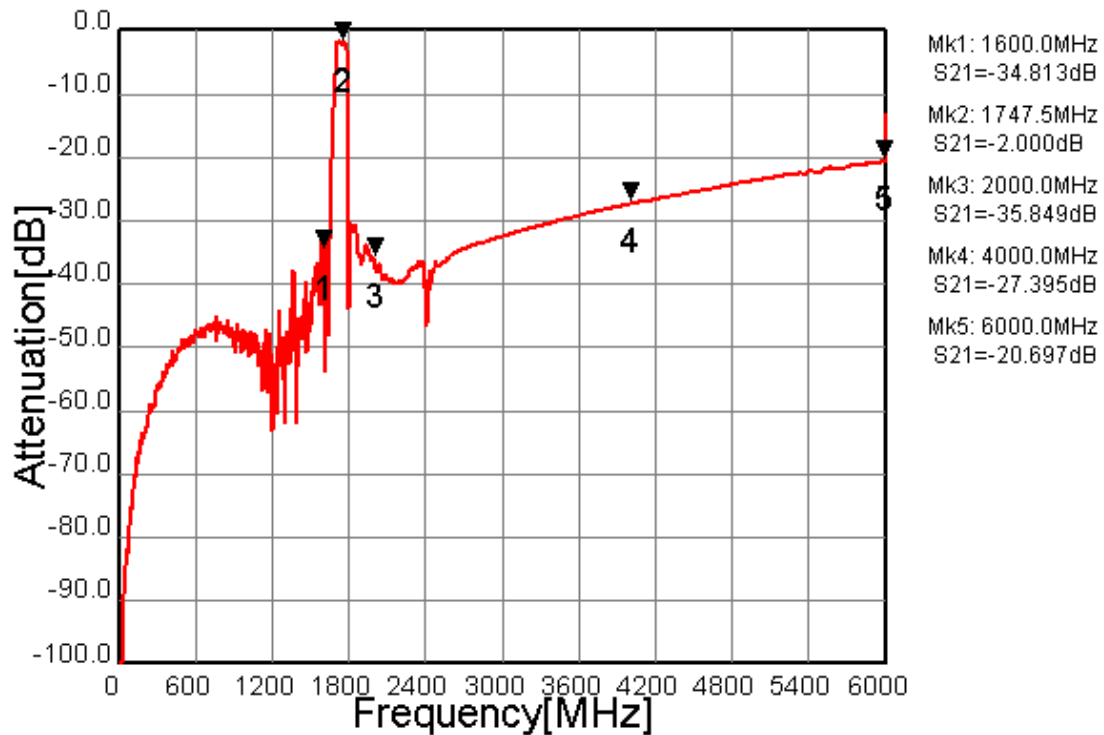


Fig.4 Wide-band Characteristic



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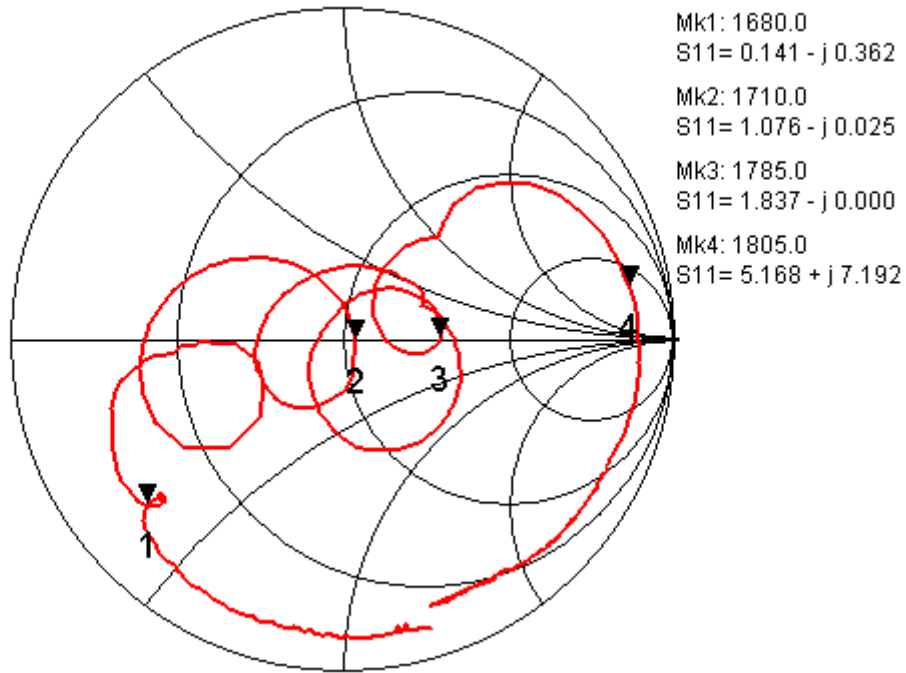


Fig.5 Input Impedance

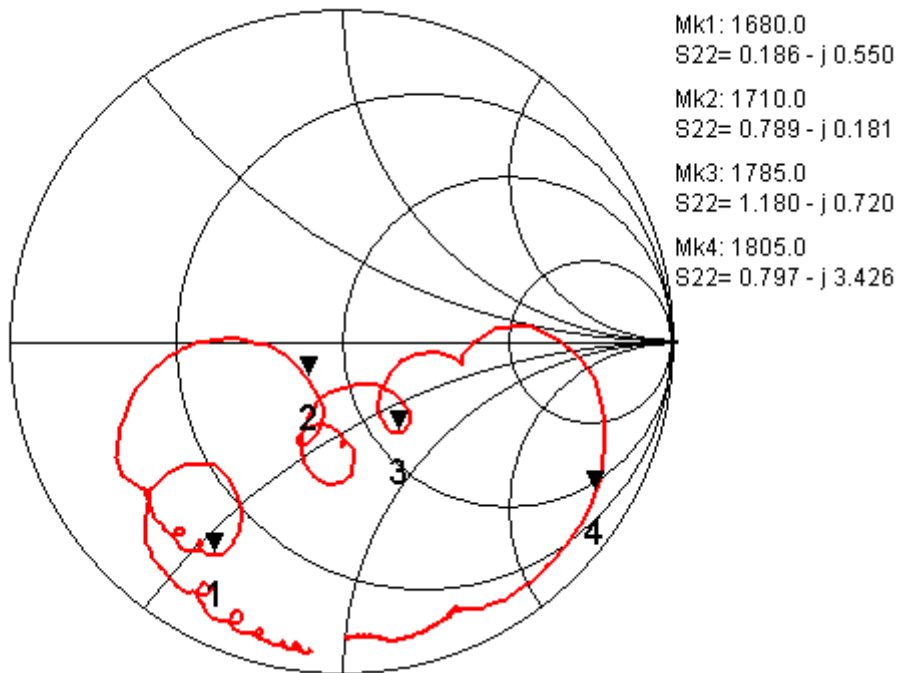


Fig.6 Output Impedance