



MSL1

* Pb Free Part

| | | | |
|---------------|-------------------------------|--|----------------|
| Customer Name | Standard specification | TAIYO YUDEN Mobile Technology Co.,Ltd. | |
| System | W-CDMA IV (AWS) Tx | Date | March 31, 2010 |
| Part Number | FAR-F6KA-1G7400-D4DE | Version 2.0e | |

Table 1. Electrical specifications

| Passband: 1710 ~ 1770 MHz | | | | | | |
|---------------------------|---------------|------------------------|------|------|------|---------|
| Item | Condition | Specification | | | Unit | Remarks |
| | | Min. | Typ. | Max. | | |
| Insertion Loss | 1710~1770 MHz | - | 1.5 | 2.7 | dB | |
| Ripple | 1710~1770 MHz | - | 0.7 | 1.8 | dB | |
| Absolute attenuation | 800~1355 MHz | 30 | 37 | - | dB | |
| | 1574~1577MHz | 30 | 52 | - | dB | |
| | 1600~1680MHz | 12 | 22 | - | dB | |
| | 1805~1880 MHz | 17 | 24 | - | dB | |
| | 1930~1990 MHz | 30 | 36 | - | dB | |
| | 2110~2170 MHz | 30 | 44 | - | dB | |
| VSWR (Input) | 1710~1770 MHz | - | 2.0 | 2.5 | - | |
| VSWR (Output) | 1710~1770 MHz | - | 2.0 | 2.5 | - | |
| Input Impedance | Unbalanced | 50 | | | Ohm | |
| Output Impedance | Unbalanced | 50 | | | Ohm | |
| Operating Temperature | | -30 ~ +85 | | | °C | |
| Device size | | 1.4typ.x1.0typ.x0.5max | | | mm | |



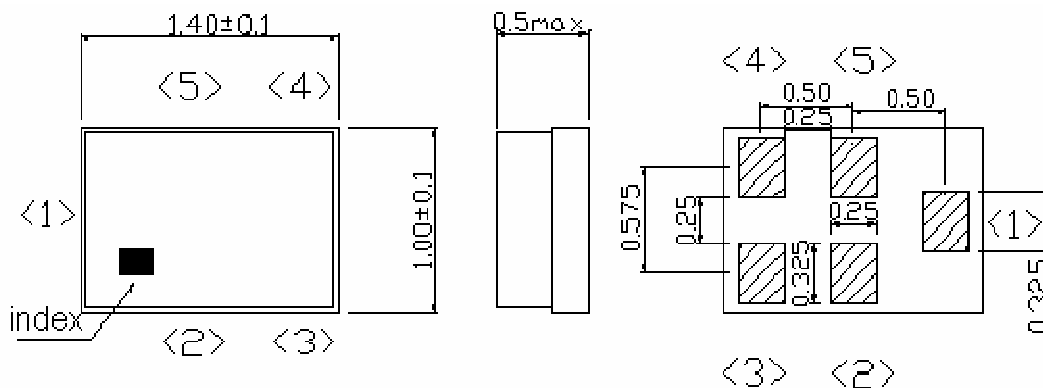
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Dimension

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

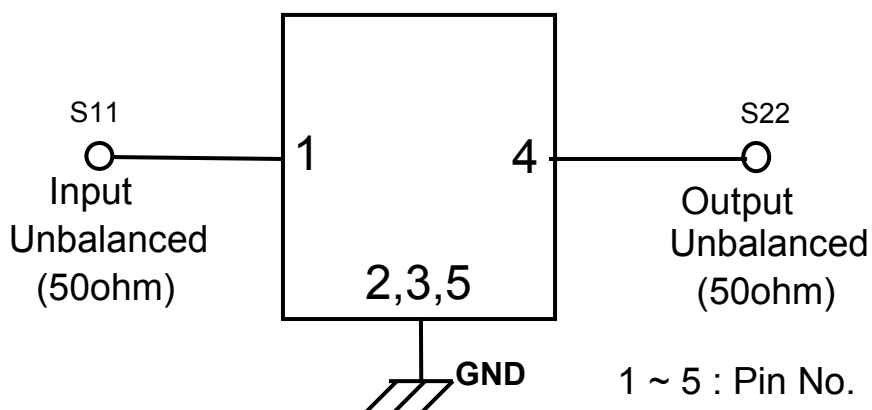


Unit: mm

Pin Configuration

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

Evaluation Circuit





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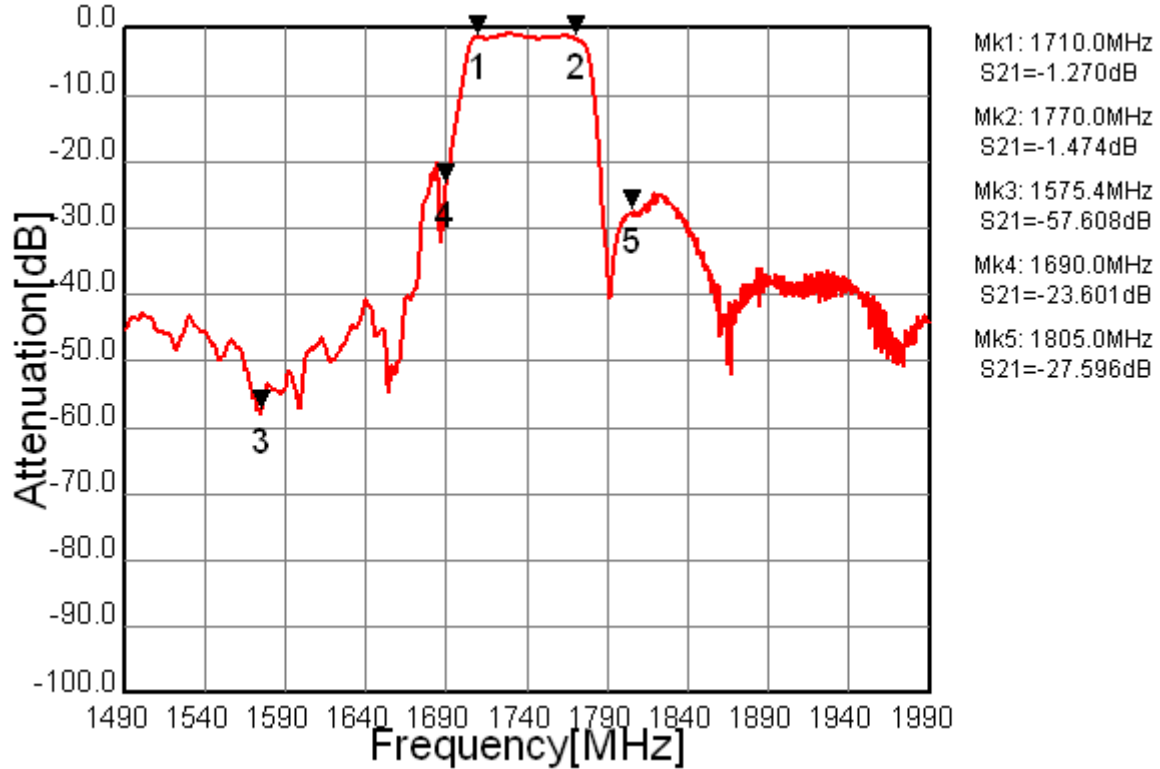


Fig.1 Pass-band Characteristics

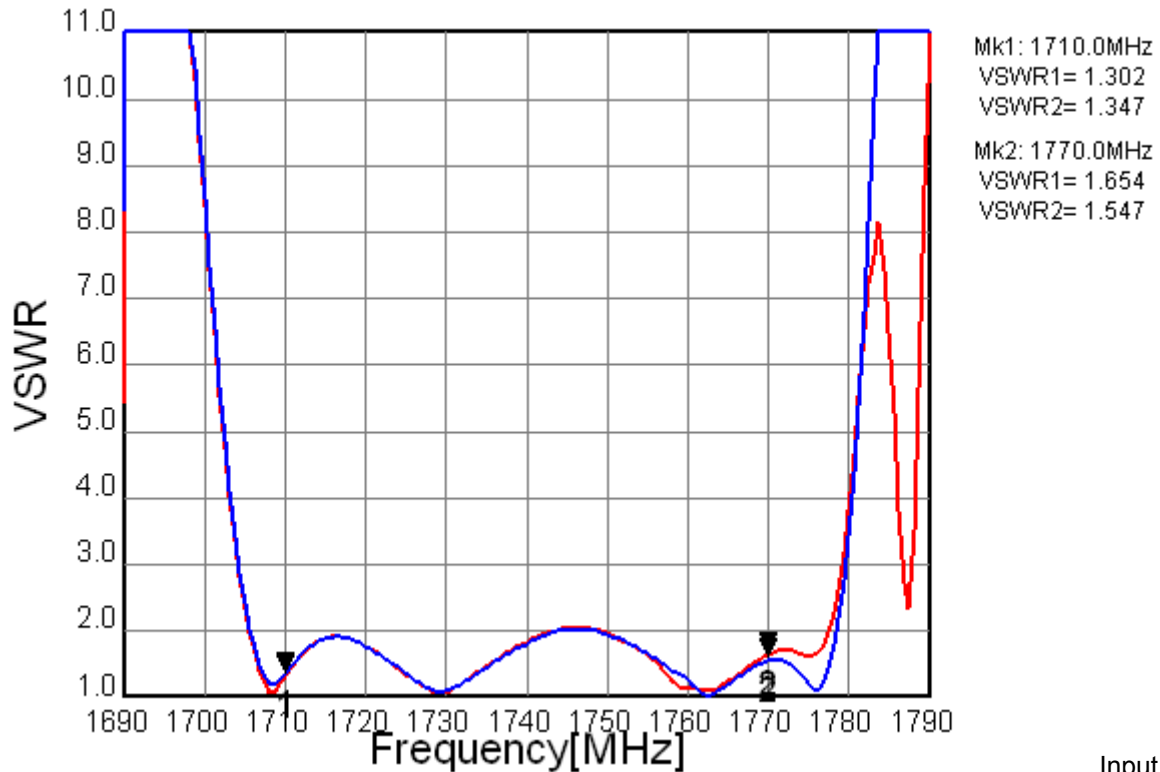


Fig.2 VSWR

— Input
— Output



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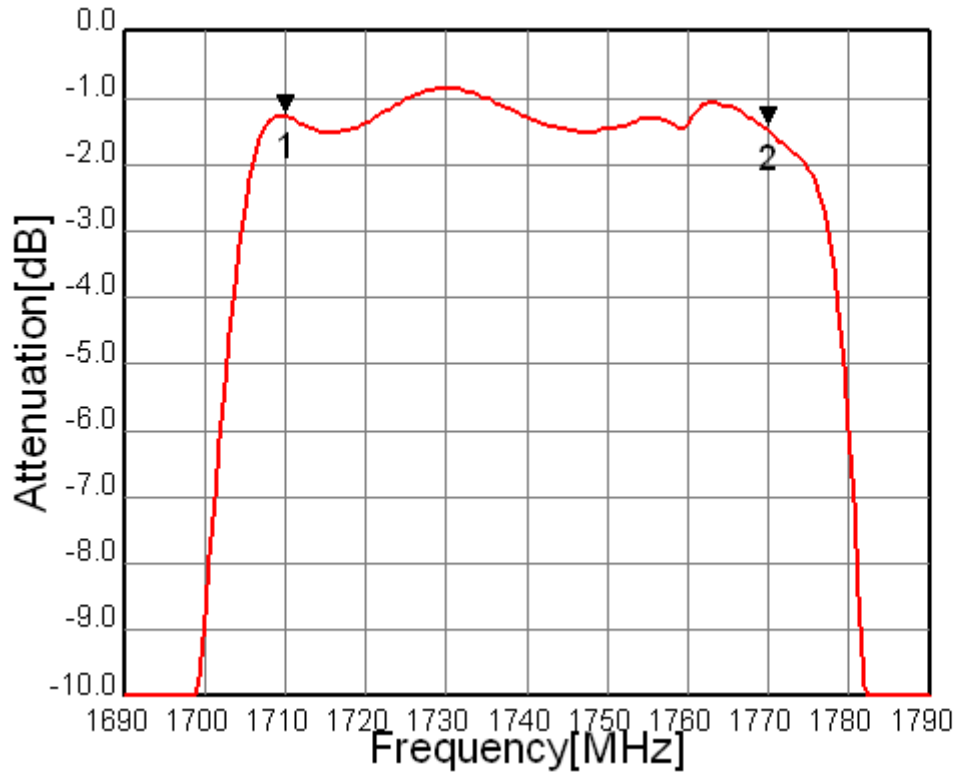


Fig.3 In-band Characteristics

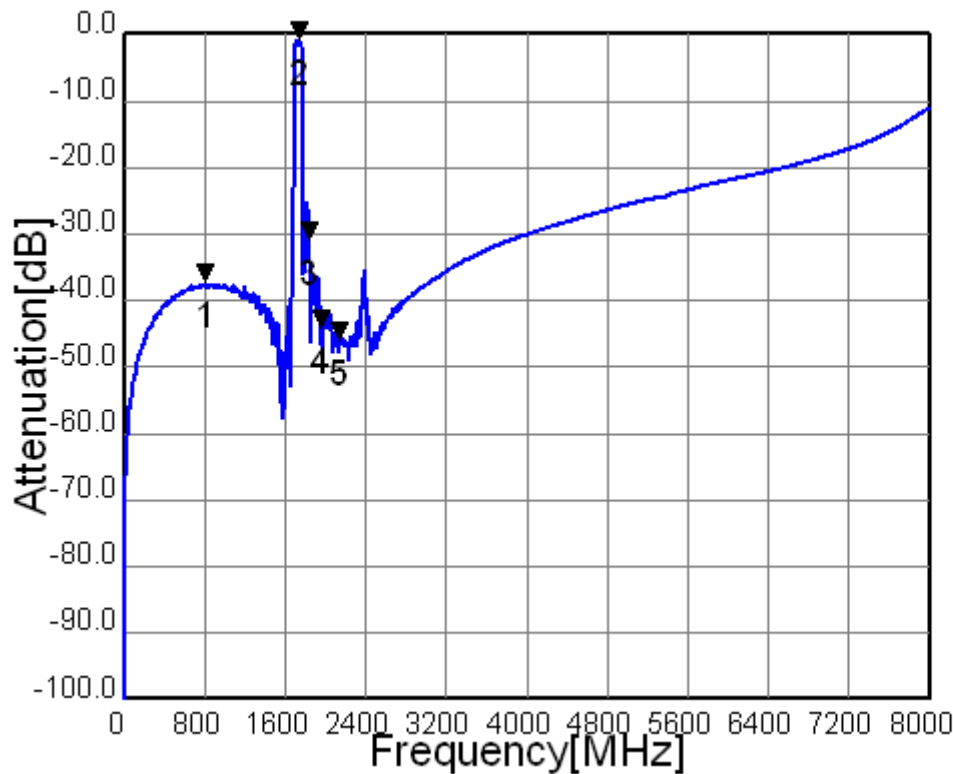


Fig.4 Wide-band Characteristics



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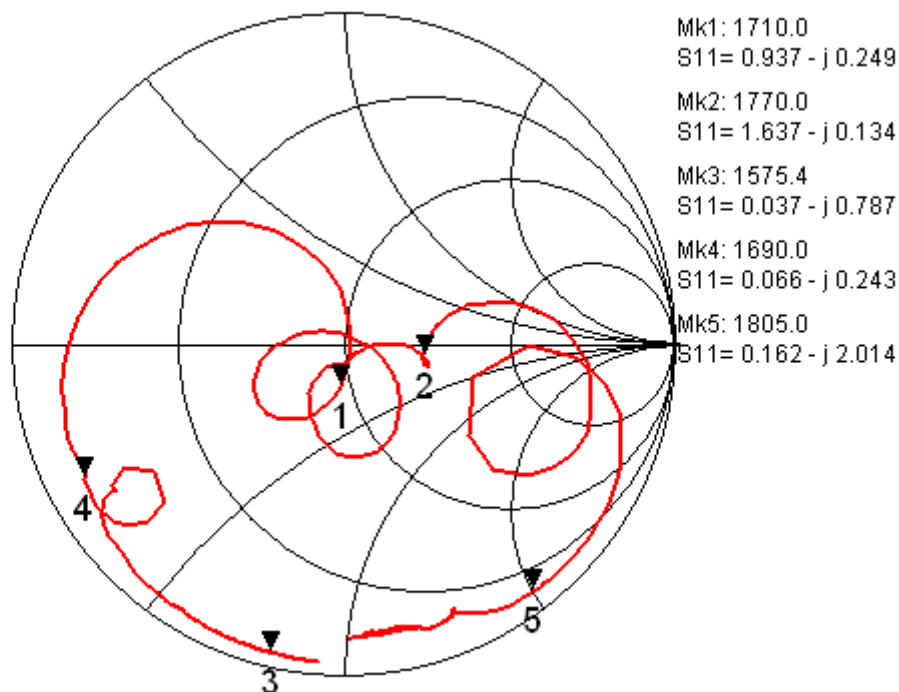


Fig.5 Input Impedance

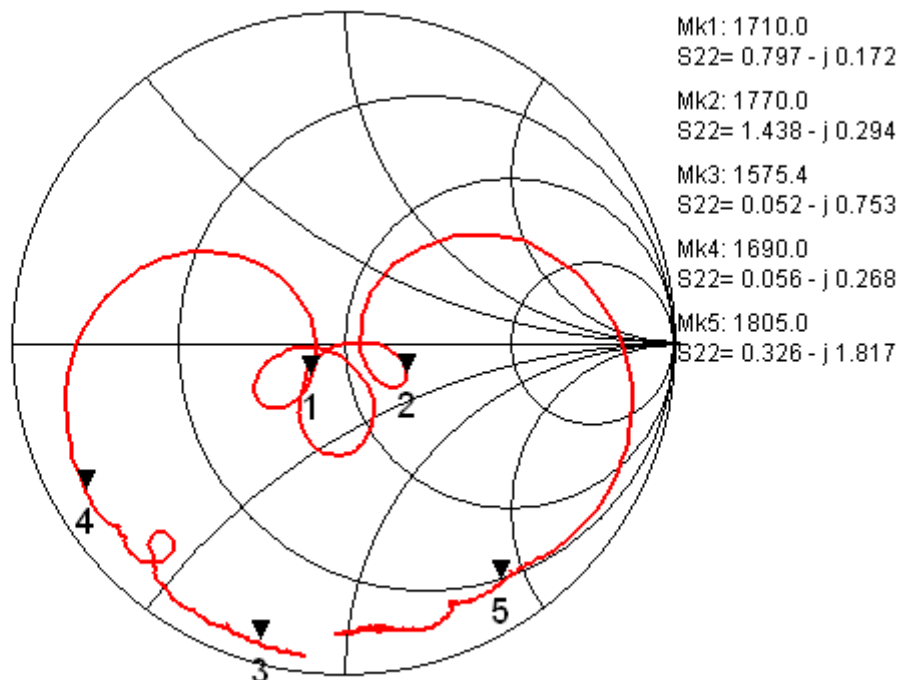


Fig.6 Output Impedance