



MSL1

* Pb Free Part

| | | | |
|---------------|----------------------|--|----------------|
| Customer Name | Standard | TAIYO YUDEN Mobile Technology Co.,Ltd. | |
| System | PCS-Tx | Date | March 31, 2010 |
| Part Number | FAR-F6KA-1G8800-L4AF | Version1.0a | |

Table 1. Electrical specifications

| Passband:1850.6 ~ 1909.4 MHz | | | | | | |
|------------------------------|-------------------|-------------------------|------|------|------|---------|
| Item | Condition | Specification | | | Unit | Remarks |
| | | Min. | Typ. | Max. | | |
| Insertion Loss | 1850.6~1909.4 MHz | - | 2.4 | 3.8 | dB | |
| Ripple | 1850.6~1909.4 MHz | - | 1.3 | 2.7 | dB | |
| Absolute attenuation | DC~1570 MHz | 20 | 25 | - | dB | |
| | 1570~1580 MHz | 24 | 30 | - | dB | |
| | 1580~1770 MHz | 24 | 30 | - | dB | |
| | 1770~1829.4 MHz | 10 | 23 | - | dB | |
| | 1930.6~1989.4 MHz | 27 | 35 | - | dB | |
| | 1989.4~3000 MHz | 23 | 32 | - | dB | |
| | 3000~4000 MHz | 14 | 21 | - | dB | |
| | 4000~6000 MHz | 4 | 9 | - | dB | |
| VSWR(Input) | 1850.6~1909.4 MHz | - | 2.0 | 2.5 | - | |
| VSWR(Output) | 1850.6~1909.4 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 | |



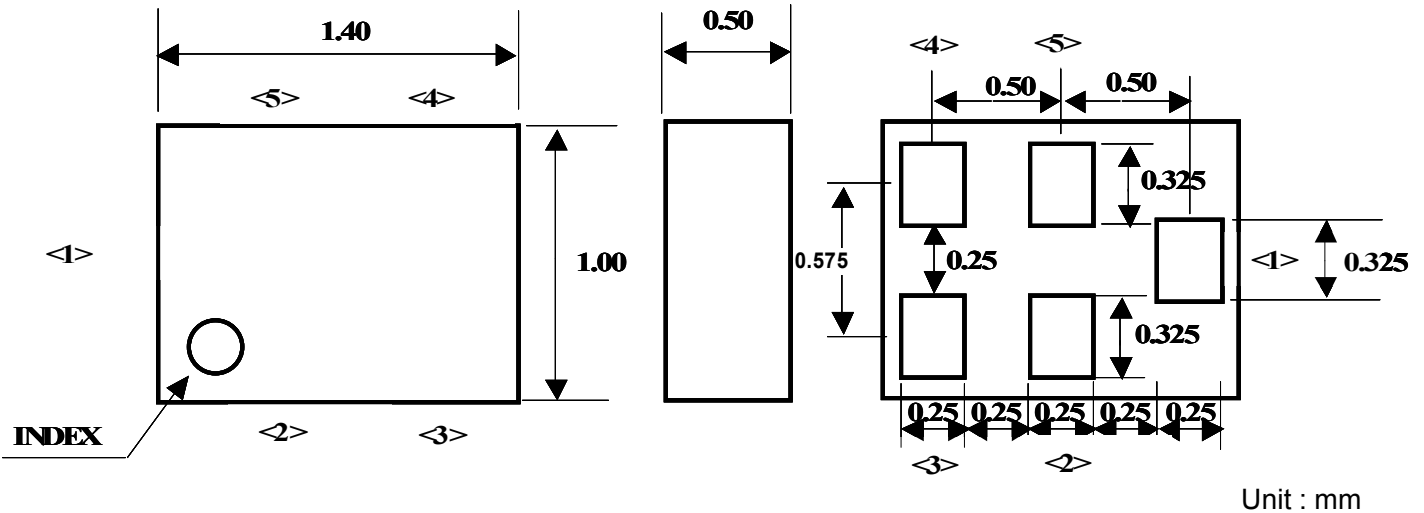
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Dimensions

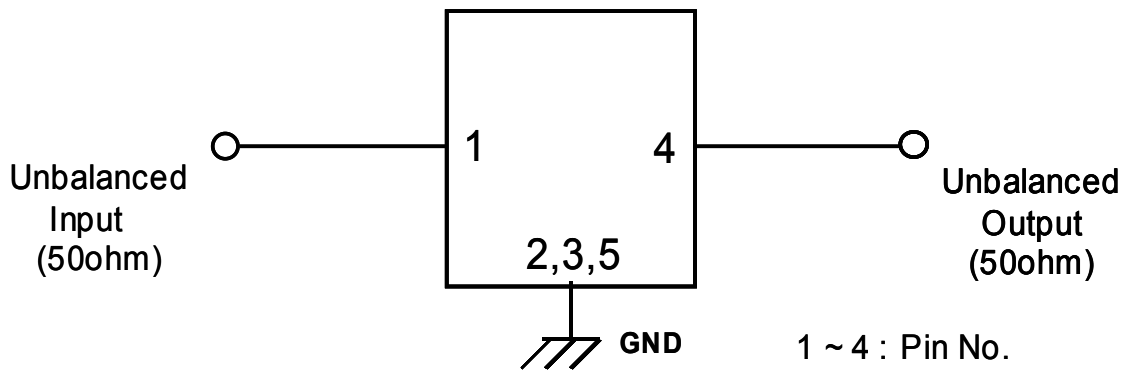
Device size: 1.4typ. x 1.0typ. x 0.5max.



Pin Configuration

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

Evaluation Circuit





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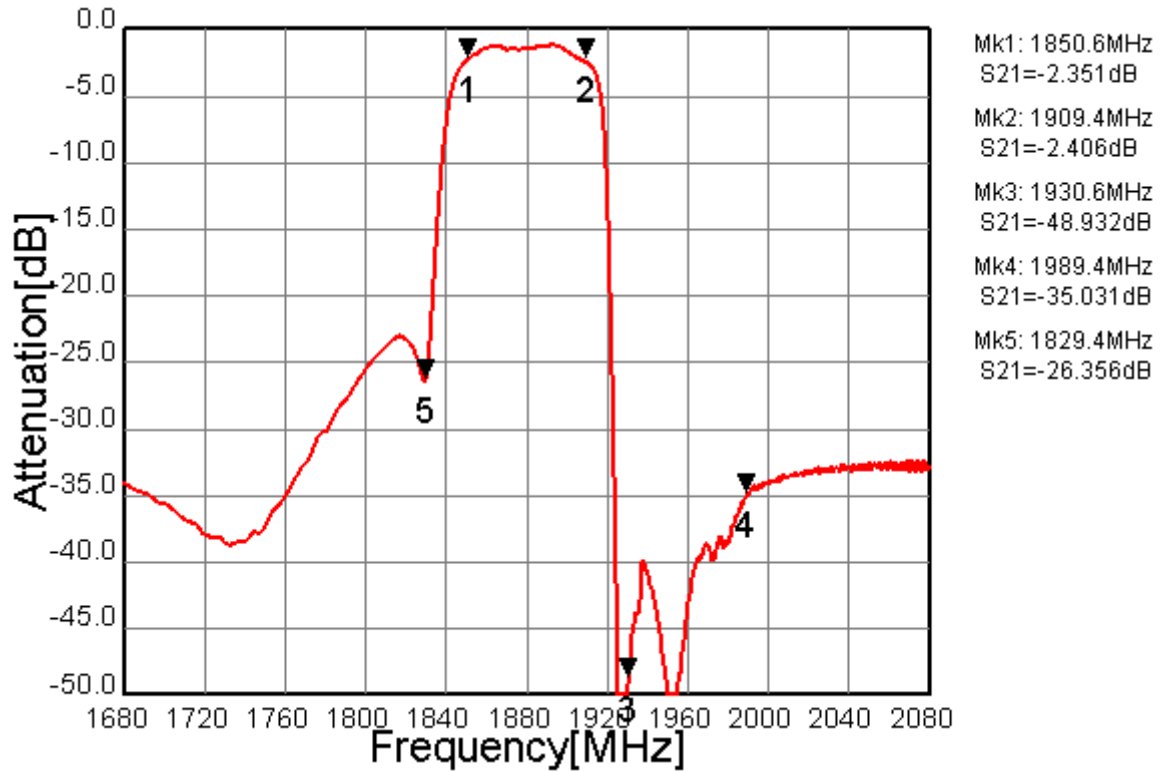


Fig.1 Pass-band Characteristics

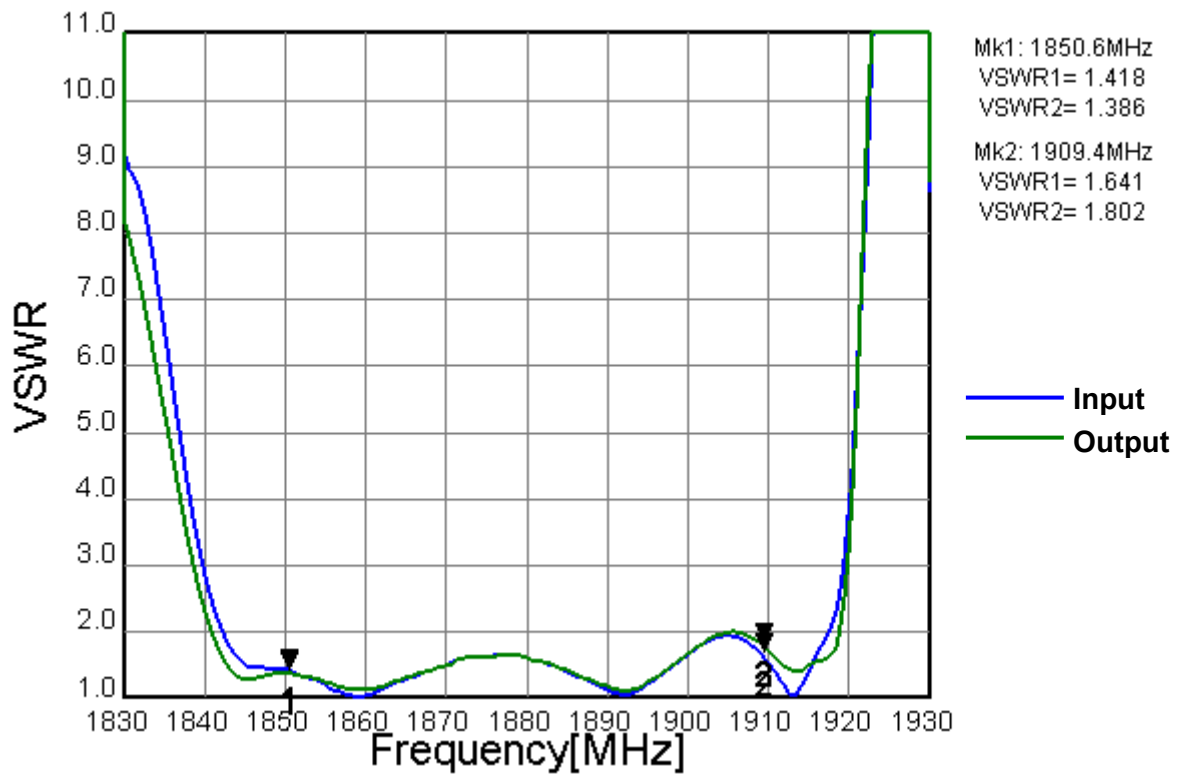


Fig.2 VSWR



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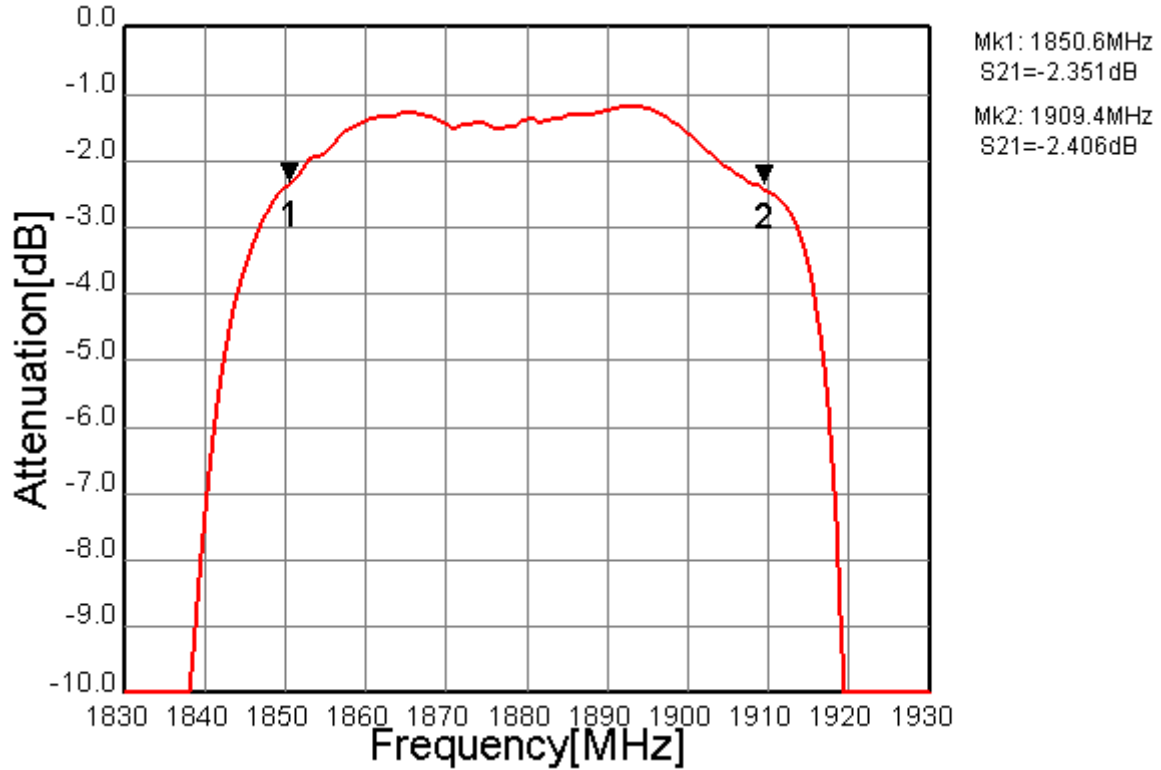


Fig.3 In-band Characteristics

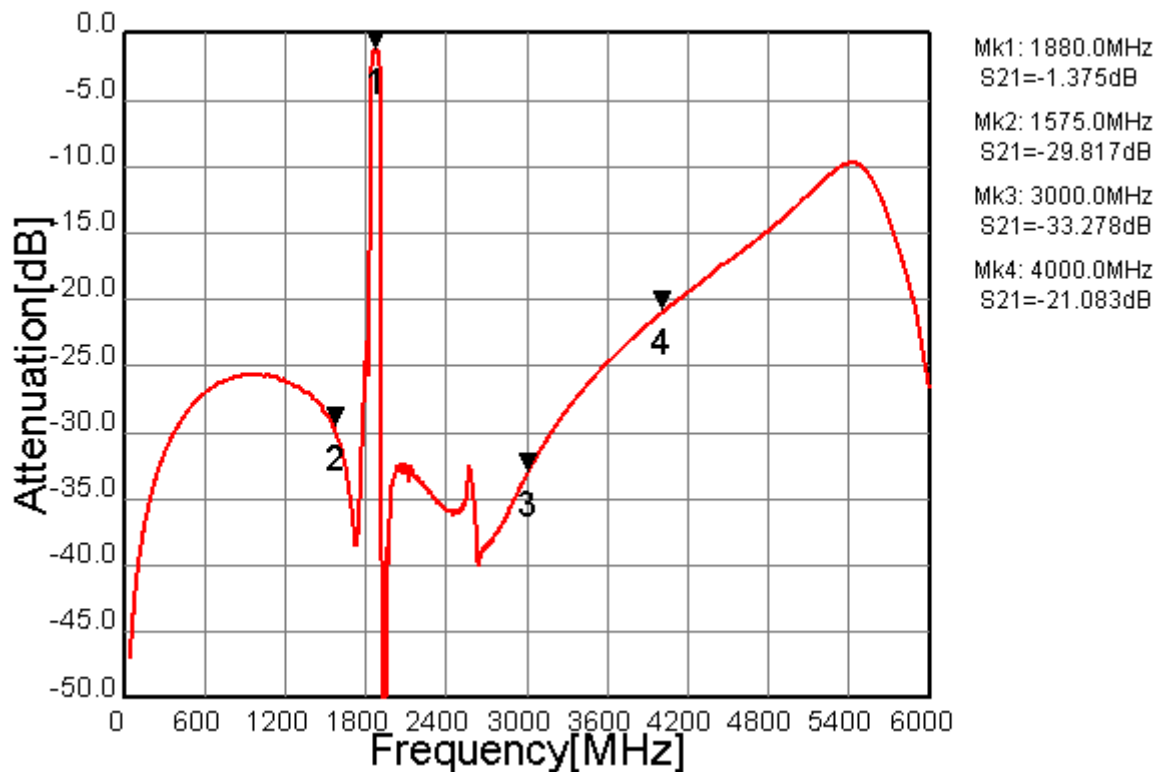


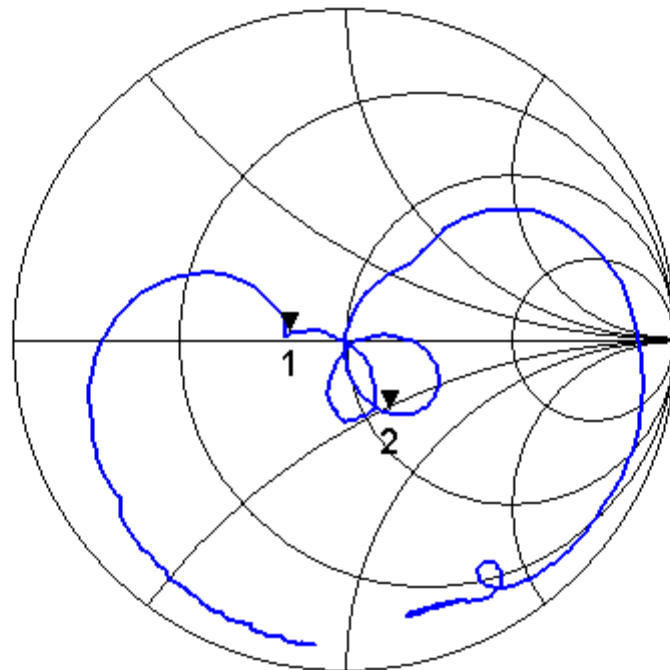
Fig.4 Wide-band Characteristics



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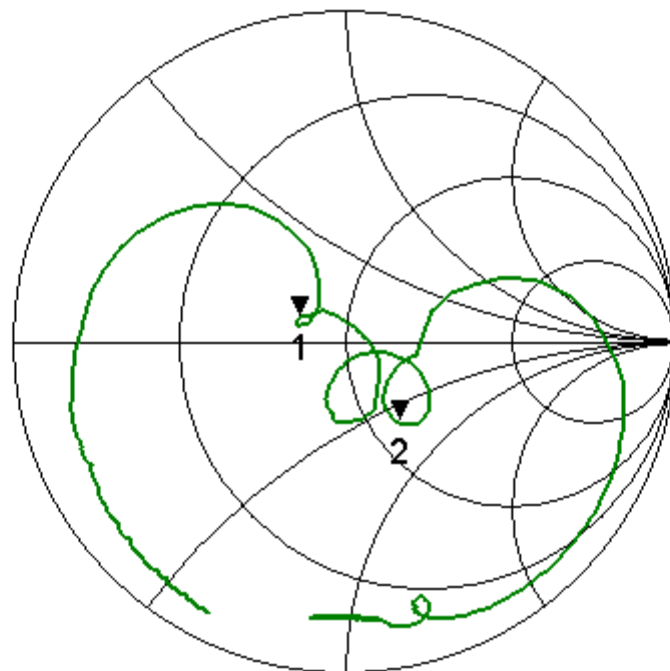
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Mk1: 1850.6
S11= 0.704 + j 0.030
Mk2: 1909.4
S11= 1.166 - j 0.555

Fig.5 Input Impedance



Mk1: 1850.6
S22= 0.740 + j 0.113
Mk2: 1909.4
S22= 1.203 - j 0.651

Fig.6 Output Impedance