



* Pb Free Part



MSL1

| | | | |
|---------------|------------------------|--|----------------|
| Customer Name | Standard specification | TAIYO YUDEN Mobile Technology Co.,Ltd. | |
| System | TD-SCDMA | Date | March 31, 2010 |
| Part Number | FAR-F6KA-2G0175-D4DR | Version 2.0b | - |

Table 1. Electrical specification

| Pass Band (2010-2025MHz) | | | | | | |
|--------------------------|---------------|------------------------|------|------|------|---------|
| Item | Condition | Specification | | | Unit | Remarks |
| | | Min. | Typ. | Max. | | |
| Insertion Loss | 2010-2025 MHz | - | 1.8 | 2.2 | dB | |
| Ripple | 2010-2025 MHz | - | 0.5 | 1.0 | dB | |
| VSWR(S11) | 2010-2025 MHz | - | 1.9 | 2.3 | - | |
| VSWR(S22) | 2010-2025 MHz | - | 1.9 | 2.3 | - | |
| Absolute attenuation | 0-1000 MHz | 40 | 44 | - | dB | |
| | 1000-1030 MHz | 40 | 44 | - | dB | |
| | 1030-1925 MHz | 27 | 33 | - | dB | |
| | 1925-1950 MHz | 25 | 32 | - | dB | |
| | 1950-1960 MHz | 25 | 29 | - | dB | |
| | 2075-2085 MHz | 25 | 33 | - | dB | |
| | 2085-2110 MHz | 25 | 28 | - | dB | |
| | 2110-2430 MHz | 25 | 30 | - | dB | |
| | 2430-2565 MHz | 30 | 40 | - | dB | |
| | 2565-4010 MHz | 20 | 31 | - | dB | |
| | 4010-4060 MHz | 20 | 30 | - | dB | |
| | 4060-6000 MHz | 12 | 20 | - | dB | |
| In/Output impedance | - | 50/50 | | | ohm | |
| Operating temperature | | -20 to +85 | | | °C | |
| Device size (L x W x H) | | 1.4typ.x1.0typ.x0.5max | | | mm | SMD |



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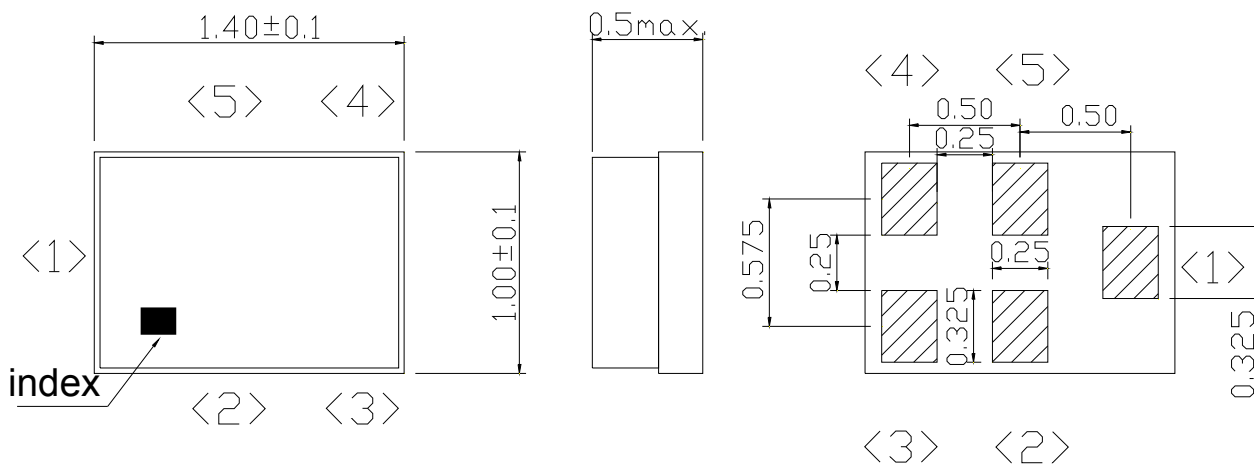


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Dimensions

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

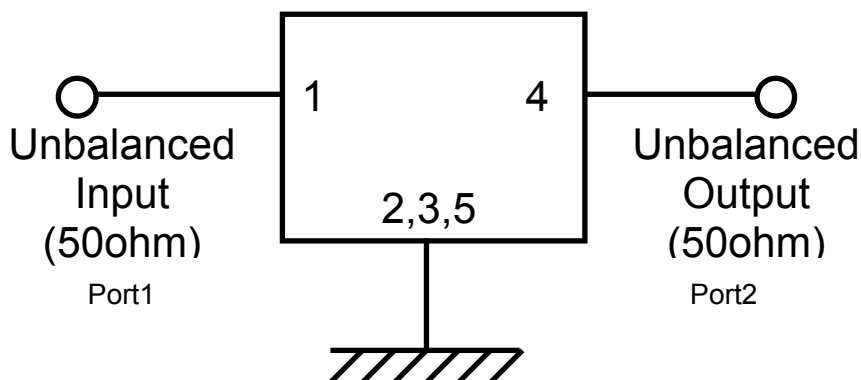


Unit : mm

Pin Configuration

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

Evaluation Circuit





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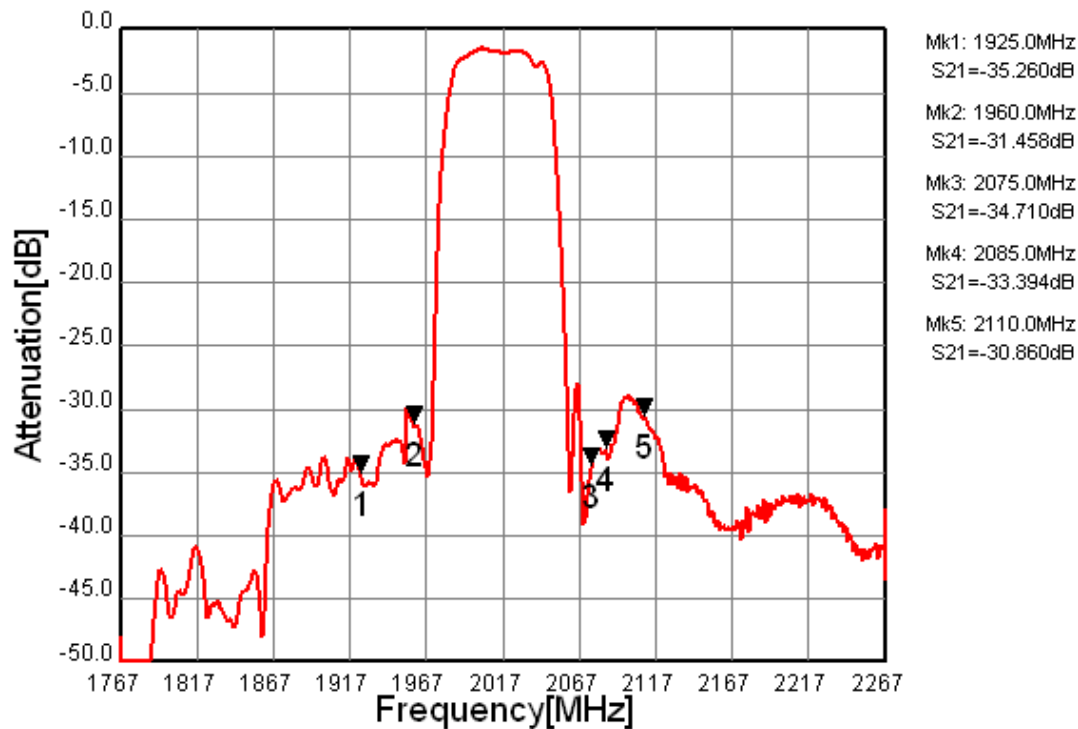


Fig.1 Pass-band Characteristic

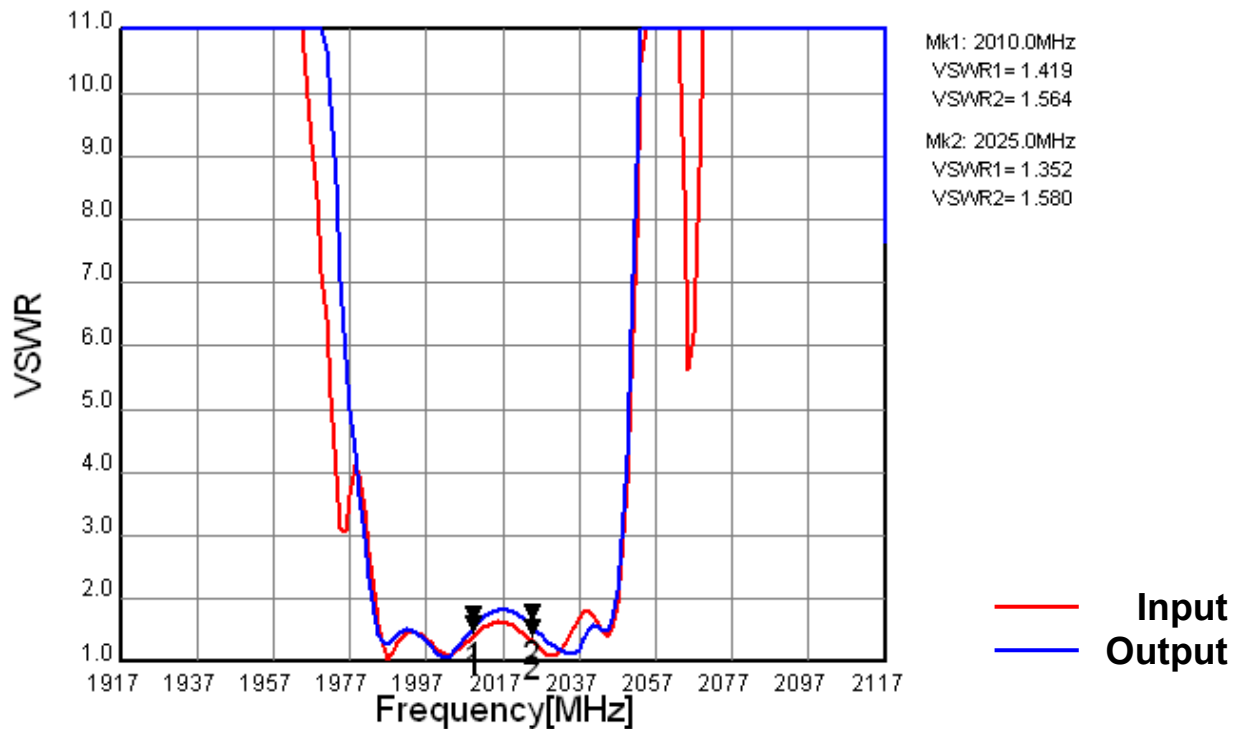


Fig.2 VSWR



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Fig.3 In-band Characteristic

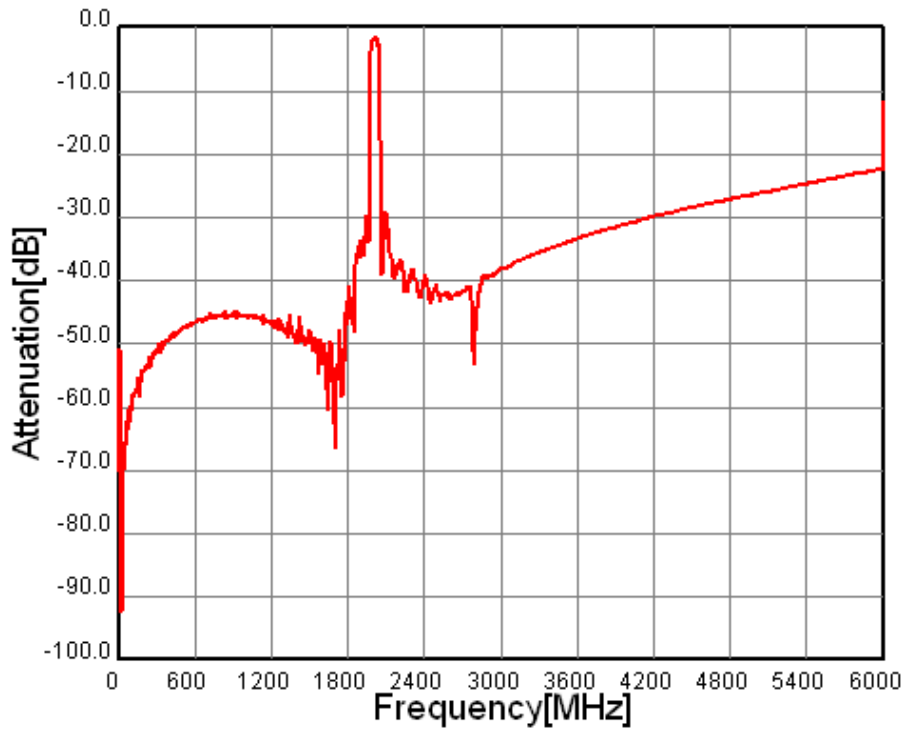


Fig.4 Wide-band Characteristic

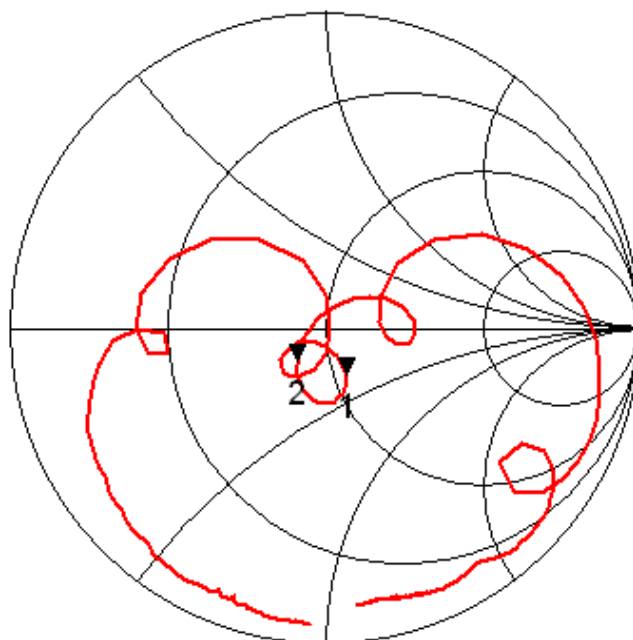


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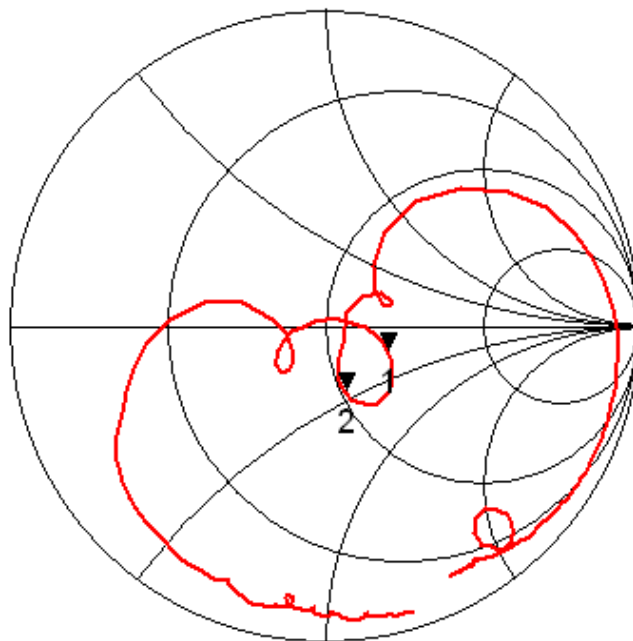
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Mk1: 2010.0
S11= 1.083 - j 0.356

Mk2: 2025.0
S11= 0.806 - j 0.191

Fig.5 Impedance (S11)



Mk1: 2010.0
S22= 1.477 - j 0.269

Mk2: 2025.0
S22= 1.036 - j 0.468

Fig.6 Impedance (S22)