



MSL1

\* Pb Free Part

|               |                        |  |               |
|---------------|------------------------|--|---------------|
| Customer Name | Standard Specification | TAIYO YUDEN Mobile Technology Co.,Ltd. |               |
| System        | PCS-Rx Filter          | Date                                   | April 2, 2010 |
| Part Number   | FAR-F6KA-1G9600-D4MT   | Version 1.1a                           |               |

**Table 1 Electrical Specification**

| Passband : 1930.6 ~ 1989.4 MHz |                 |                             |      |      |      |        |
|--------------------------------|-----------------|-----------------------------|------|------|------|--------|
| Item                           | Condition(MHz)  | Specification               |      |      | Unit | Remark |
|                                |                 | Min.                        | Typ. | Max. |      |        |
| Insertion Loss                 | 1930.6 – 1989.4 | -                           | 3.4  | 4.0  | dB   |        |
|                                | 1932.4 – 1987.6 | -                           | 3.4  | 3.8  | dB   |        |
| Ripple                         | 1930.6 – 1989.4 | -                           | 1.7  | 2.6  | dB   |        |
|                                | 1932.4 – 1987.6 | -                           | 1.7  | 2.4  | dB   |        |
| Absolute Attenuation           | 50-1850.6       | 40                          | 45   | -    | dB   |        |
|                                | 1850.6-1909.4   | 40                          | 43   | -    | dB   |        |
|                                | 1852.4-1907.6   | 40                          | 43   | -    | dB   |        |
|                                | 2040-2800       | 35                          | 45   | -    | dB   |        |
|                                | 2800-3400       | 30                          | 38   | -    | dB   |        |
|                                | 3400-6000       | 25                          | 33   | -    | dB   |        |
| VSWR(Input)                    | 1930.6 – 1989.4 | -                           | 1.7  | 2.8  | -    |        |
| VSWR(Output)                   | 1930.6 – 1989.4 | -                           | 1.7  | 2.8  | -    |        |
| Input Impedance                | unbalanced      | 50                          |      |      | Ohm  |        |
| Output Impedance               | unbalanced      | 50                          |      |      | Ohm  |        |
| Package Size                   |                 | 1.4typ. X 1.0typ. X 0.5max. |      |      | mm   |        |
| Operating Temperature          |                 | -30 to +85                  |      |      | °C   |        |



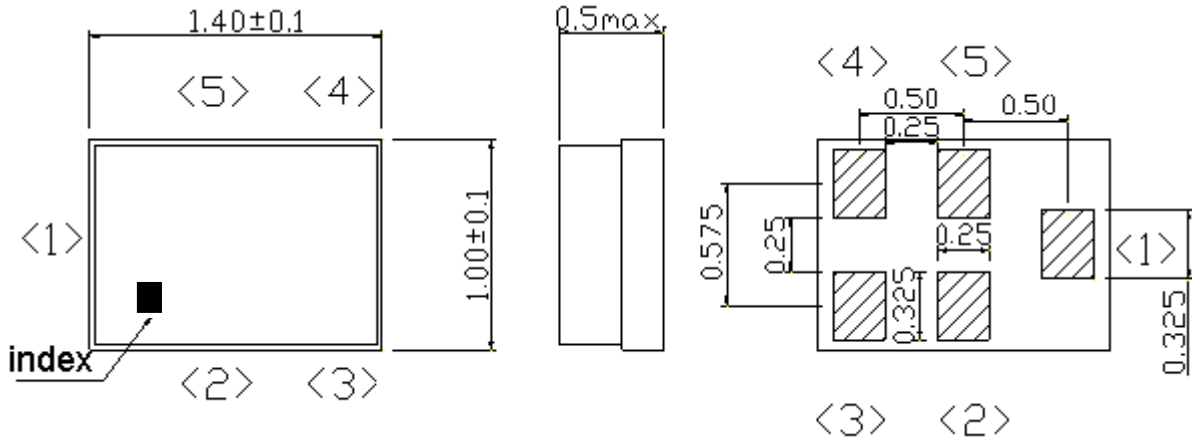
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### Dimensions

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

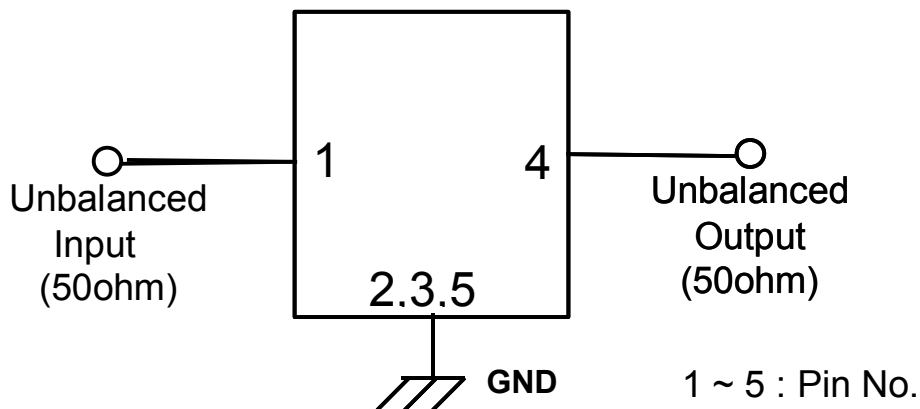


Unit : mm

### Pin Configuration

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

### Evaluation Circuit





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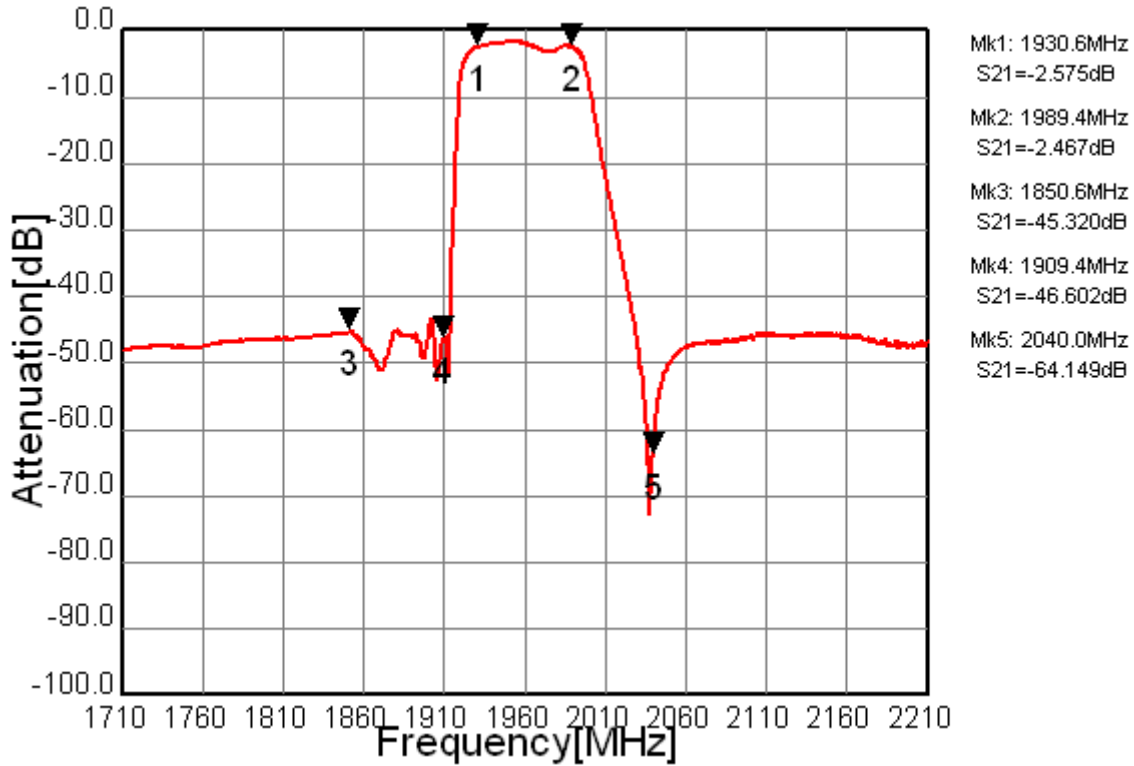


Fig.1 Pass-band Characteristics

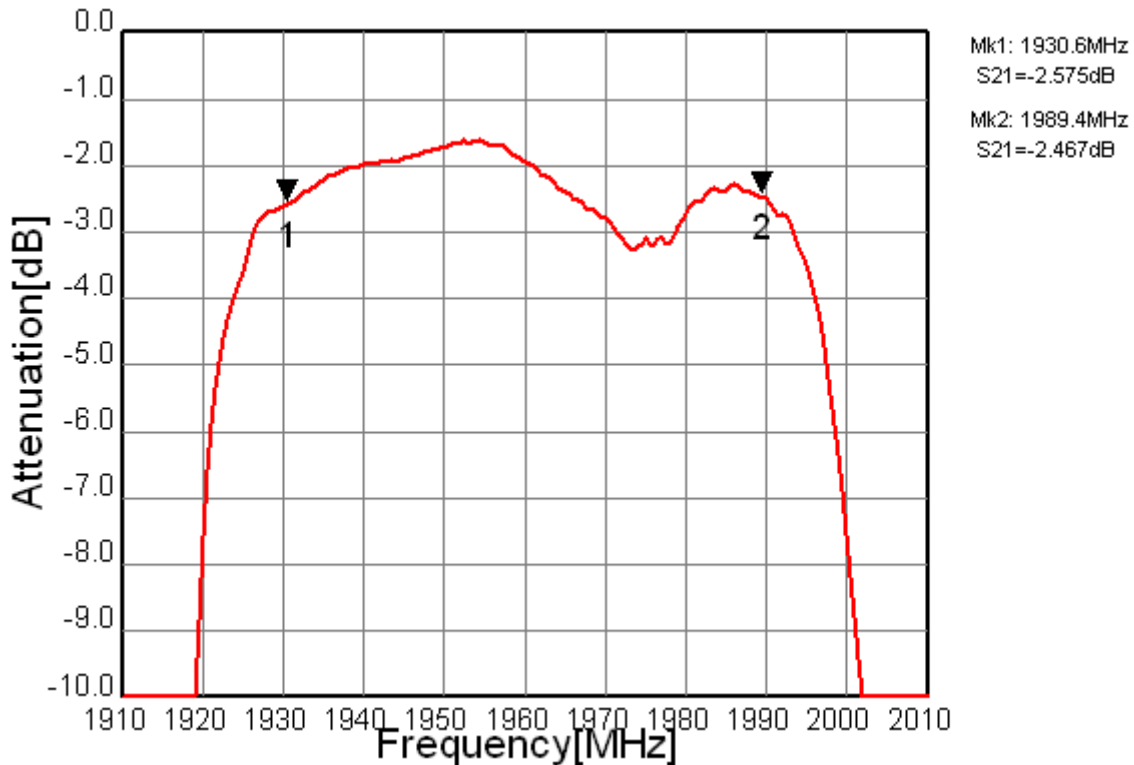


Fig.2 In-band Characteristics



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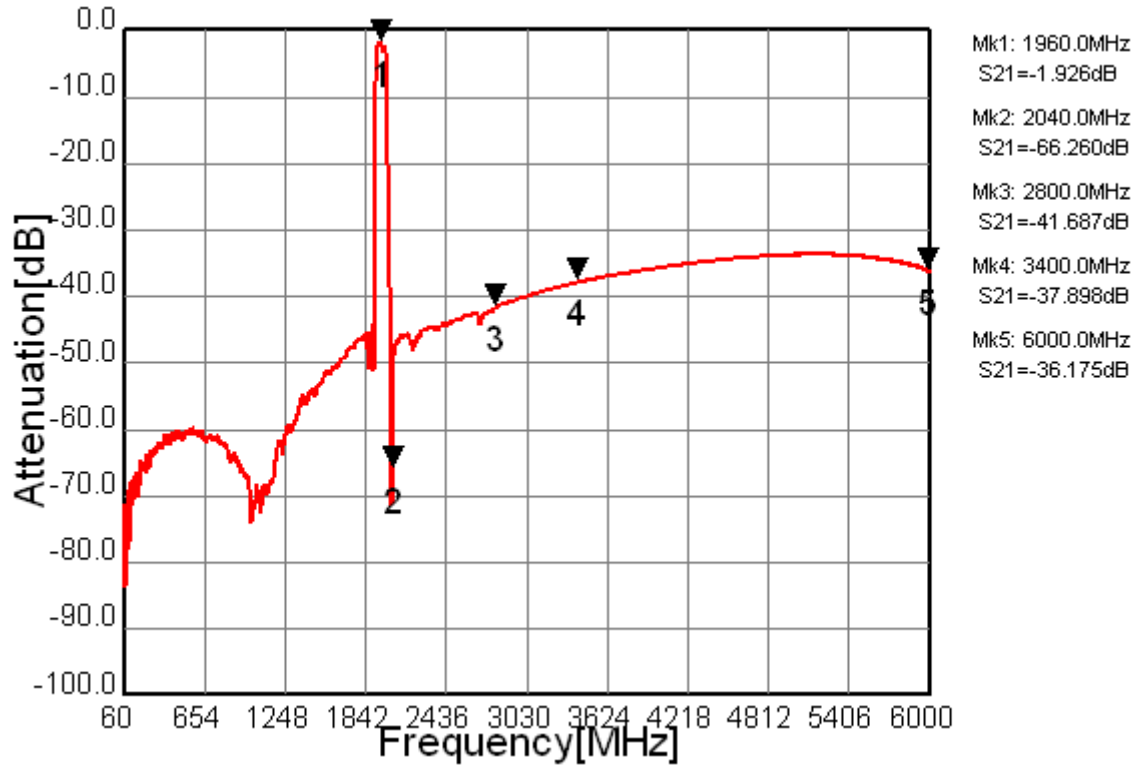


Fig.3 Wide-band Characteristics



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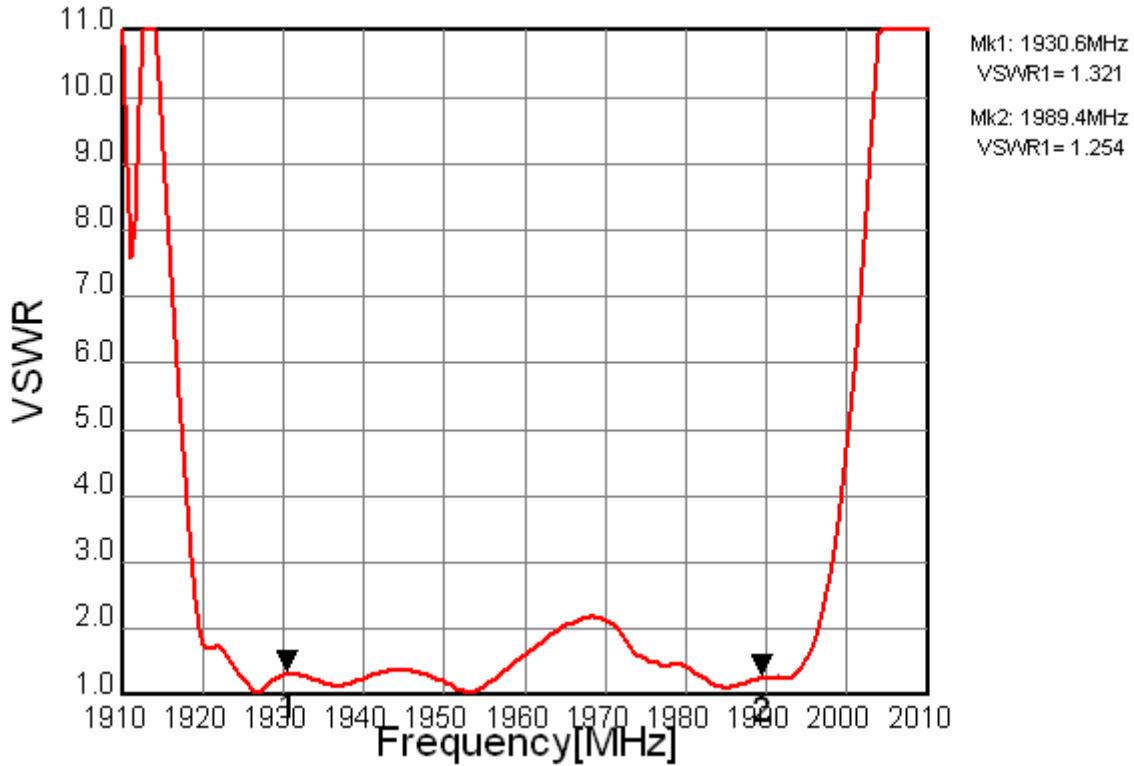


Fig.4 VSWR S11

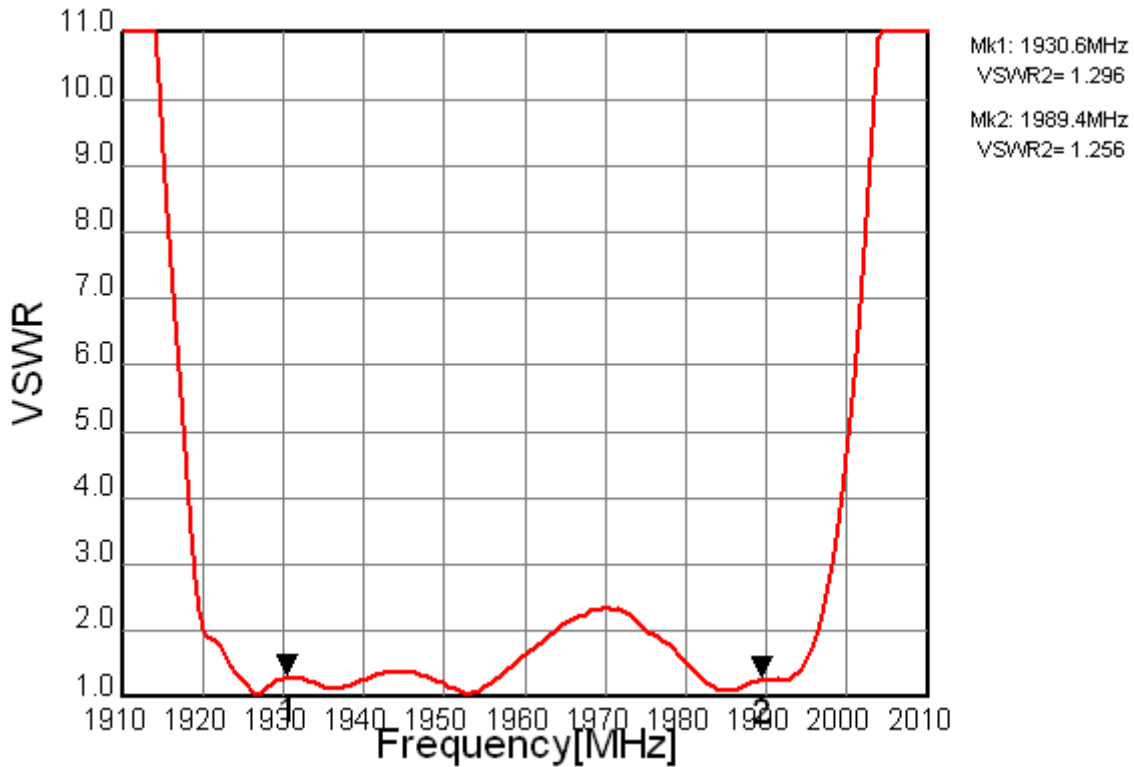


Fig.5 VSWR S22



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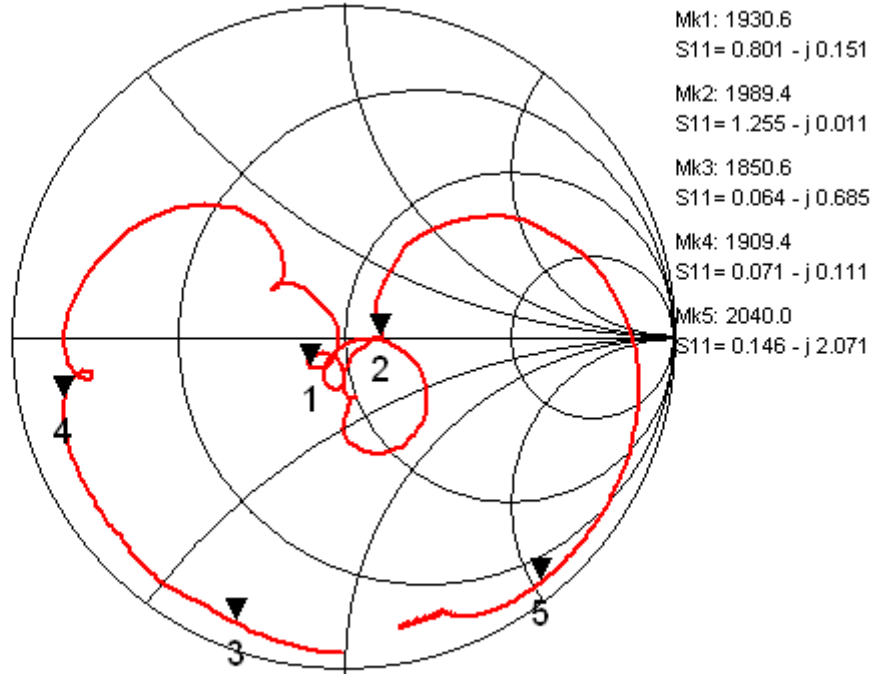


Fig.6 Impedance S11

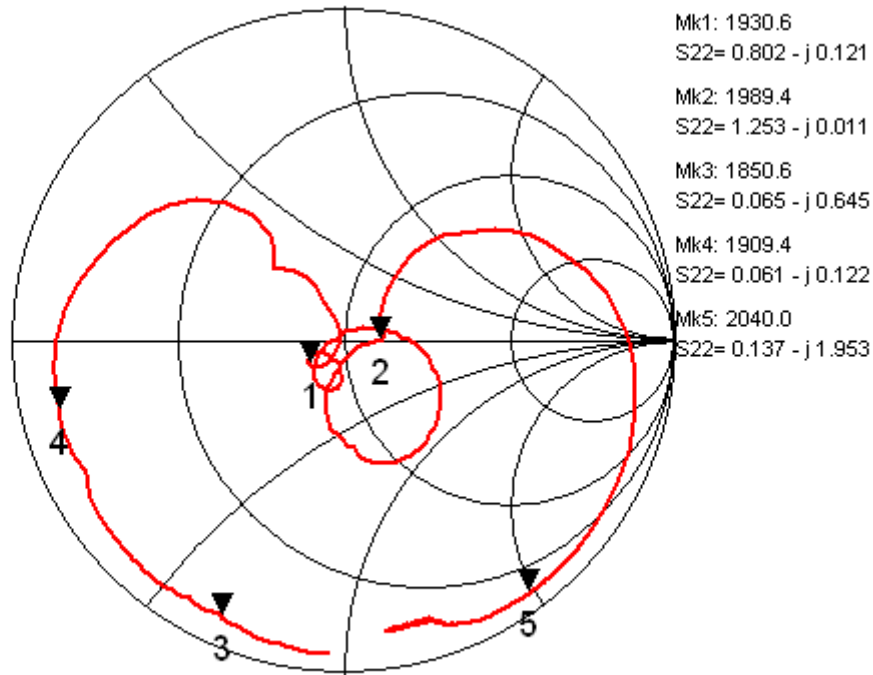


Fig.7 Impedance S22