



\* Pb Free Part

|               |                        |  |                |
|---------------|------------------------|--|----------------|
| Customer Name | Standard Specification | TAIYO YUDEN Mobile Technology Co.,Ltd. |                |
| System        | Band 13 Tx             | DATE                                   | March. 1, 2013 |
| Part Number   | F5QA782M0M2AZ          | Version 1.0a                           | <b>FINAL</b>   |

**Table 1. Electrical specifications**

| Passband: 777 ~ 787 MHz |              |               |      |      |      |            |
|-------------------------|--------------|---------------|------|------|------|------------|
| Item                    | Condition    | Specification |      |      | Unit | Remarks    |
|                         |              | Min.          | Typ. | Max. |      |            |
| Insertion Loss          | 777-787MHz   | -             | 1.5  | 2.2  | dB   | (*1)       |
| Ripple                  | 777-787MHz   | -             | 0.5  | 1.0  | dB   |            |
| VSWR                    | Input        | -             | 1.7  | 2.0  | -    |            |
|                         | Output       | -             | 1.7  | 2.0  | -    |            |
| Attenuation             | DC-716MHz    | 45            | 59   | -    | dB   |            |
|                         | 716-728MHz   | 45            | 57   | -    | dB   |            |
|                         | 728-746MHz   | 45            | 57   | -    | dB   |            |
|                         | 746-756MHz   | 45            | 56   | -    | dB   |            |
|                         | 808-818MHz   | 25            | 31   | -    | dB   |            |
|                         | 869-894MHz   | 40            | 55   | -    | dB   |            |
|                         | 1554-1565MHz | 35            | 48   | -    | dB   |            |
|                         | 1565-1585MHz | 35            | 48   | -    | dB   |            |
|                         | 1597-1607MHz | 35            | 47   | -    | dB   |            |
|                         | 1805-1880MHz | 30            | 45   | -    | dB   |            |
|                         | 1930-1990MHz | 30            | 44   | -    | dB   |            |
|                         | 2110-2170MHz | 30            | 43   | -    | dB   |            |
|                         | 2331-2361MHz | 29            | 42   | -    | dB   |            |
|                         | 2400-2484MHz | 27            | 42   | -    | dB   |            |
|                         | 2484-3000MHz | 25            | 39   | -    | dB   |            |
| 3000-4000MHz            | 21           | 39            | -    | dB   |      |            |
| 4000-5000MHz            | 15           | 36            | -    | dB   |      |            |
| 5000-6000MHz            | 15           | 36            | -    | dB   |      |            |
| Terminating Impedance   | Input        | 50            |      |      | ohm  | Unbalanced |
|                         | Output       | 50            |      |      | ohm  | Unbalanced |
| Operating Temperature   |              | -30 to +85    |      |      | °C   |            |

(\*1) Specification of insertion loss includes loss that comes from the test board.(0.05dB)

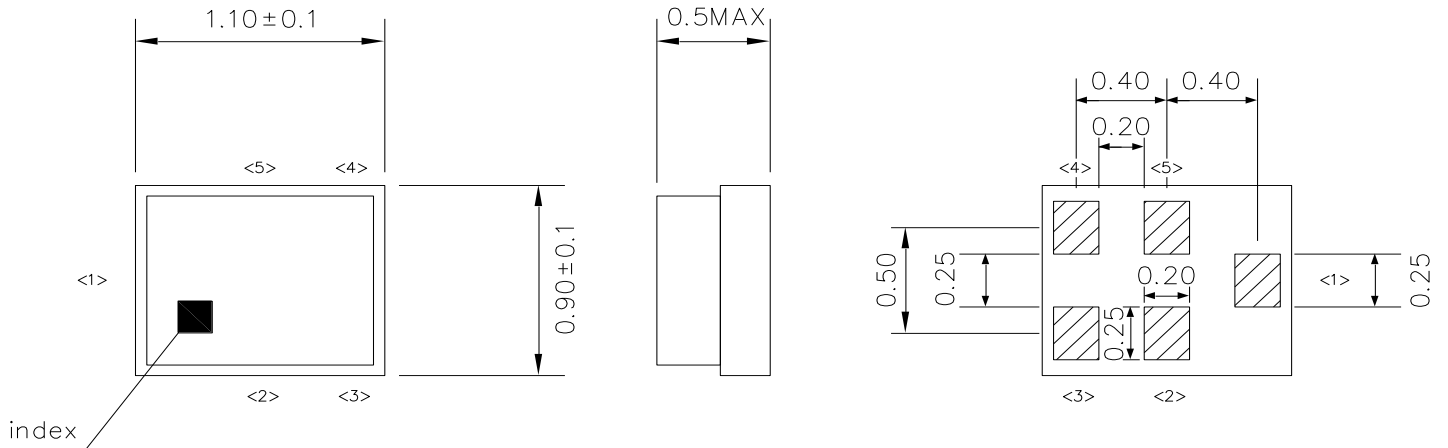


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### Dimensions

Device size: 1.1typ. x 0.9typ. x 0.5max

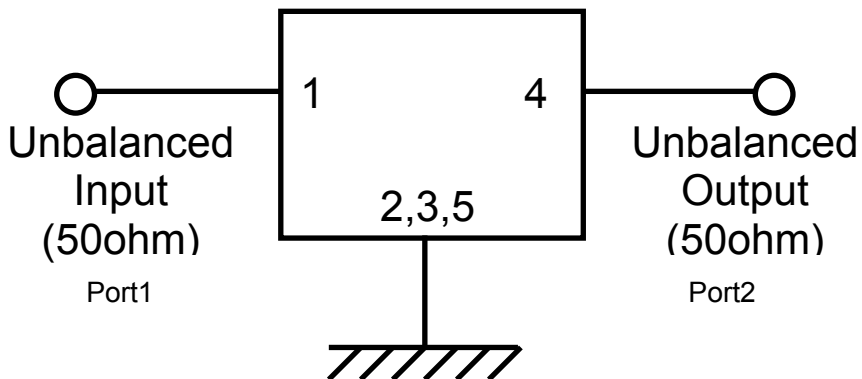


Unit: mm

### Pin Configuration

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

### Evaluation Condition





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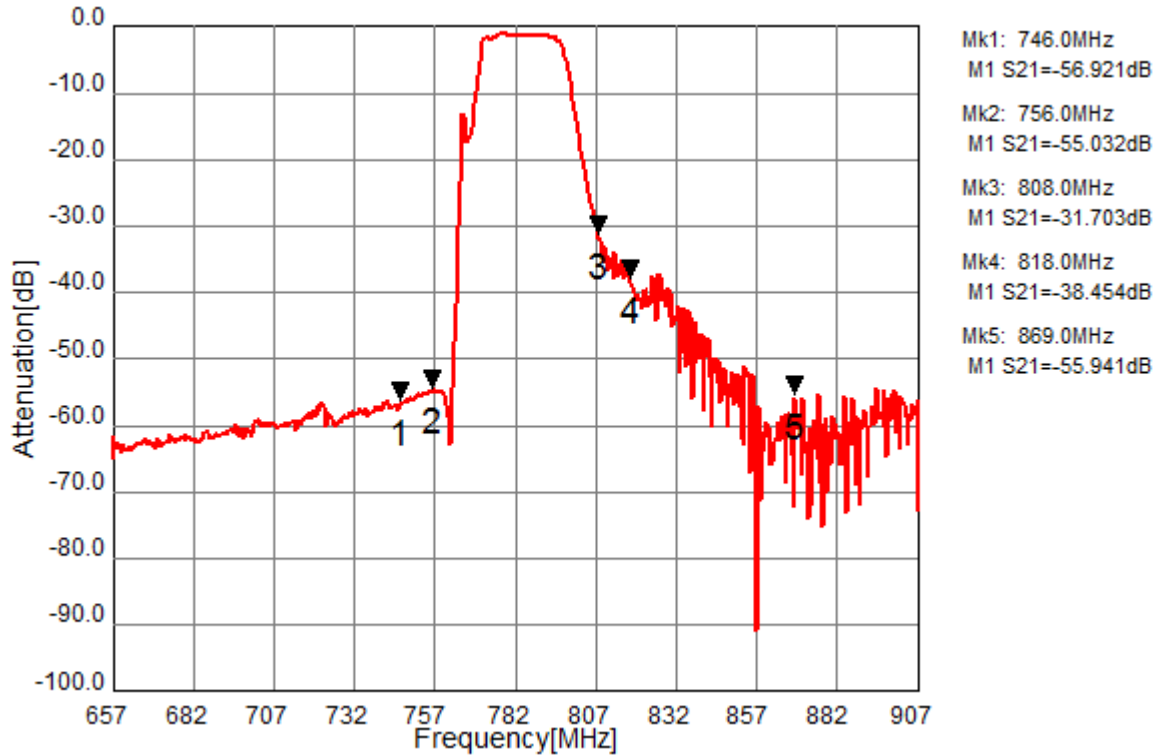


Fig.1 Pass-band Characteristic

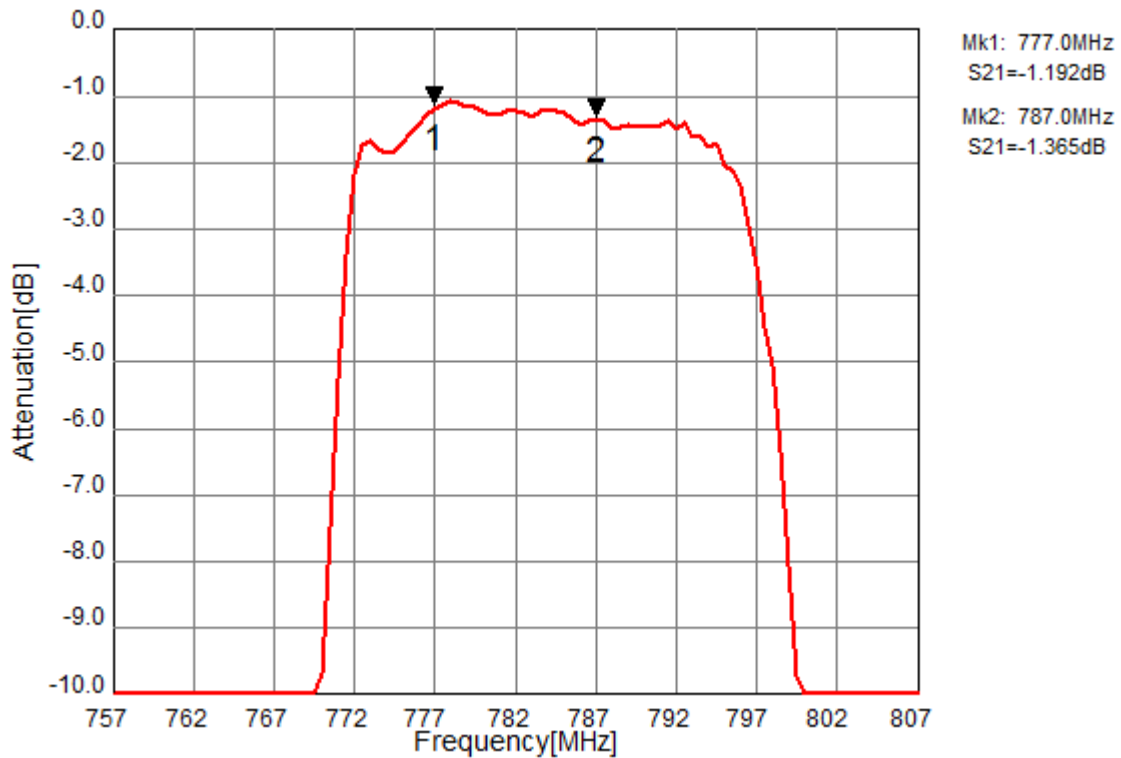


Fig.2 In-band Characteristic



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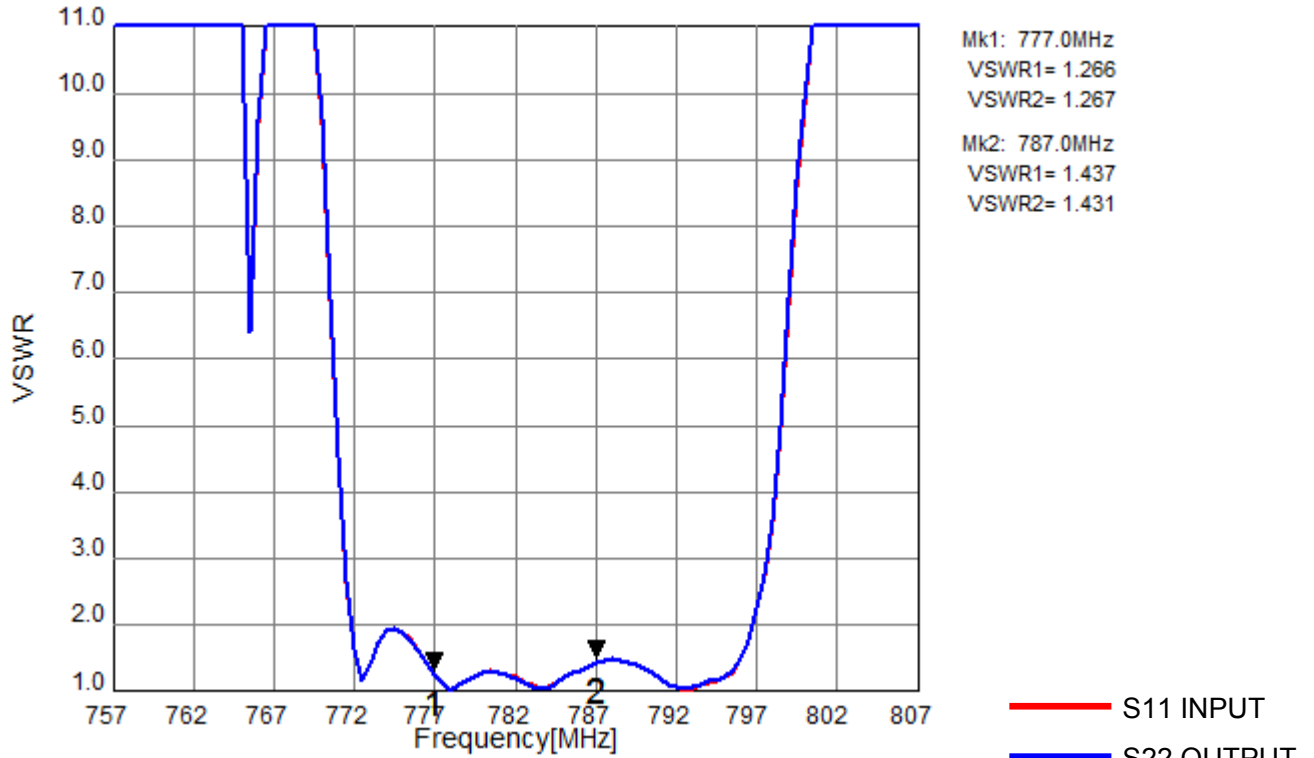


Fig.3 VSWR

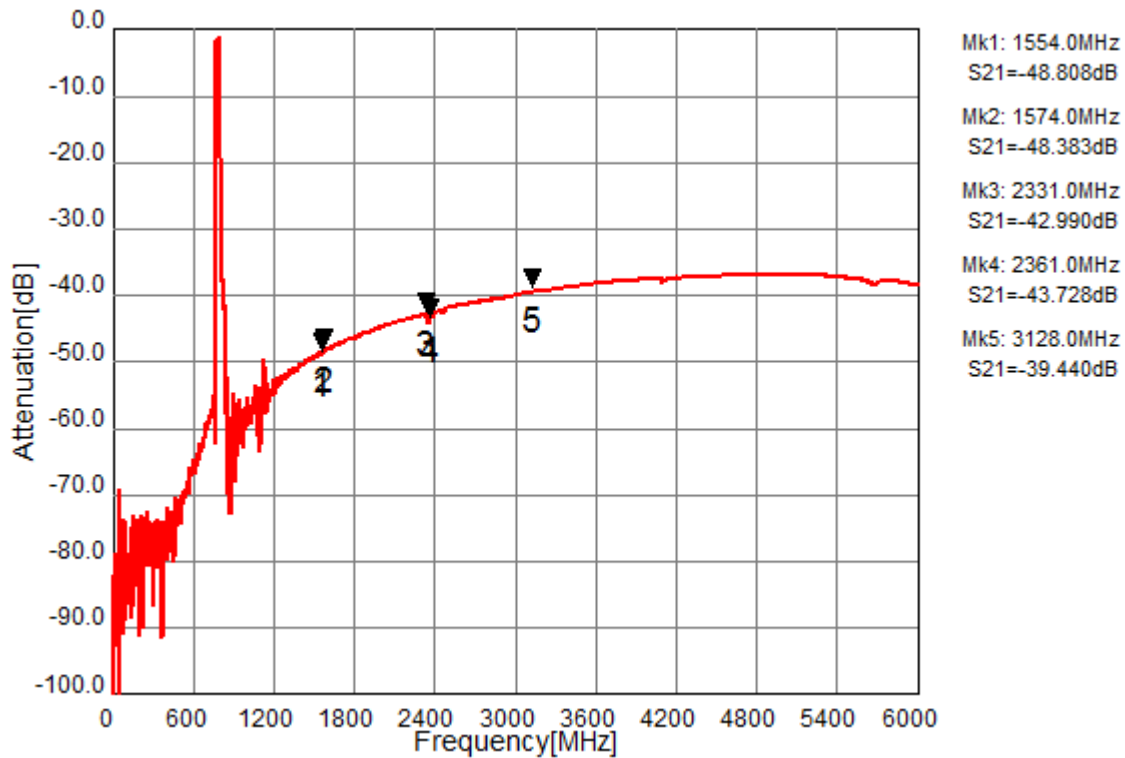


Fig.4 Wide-band Characteristic



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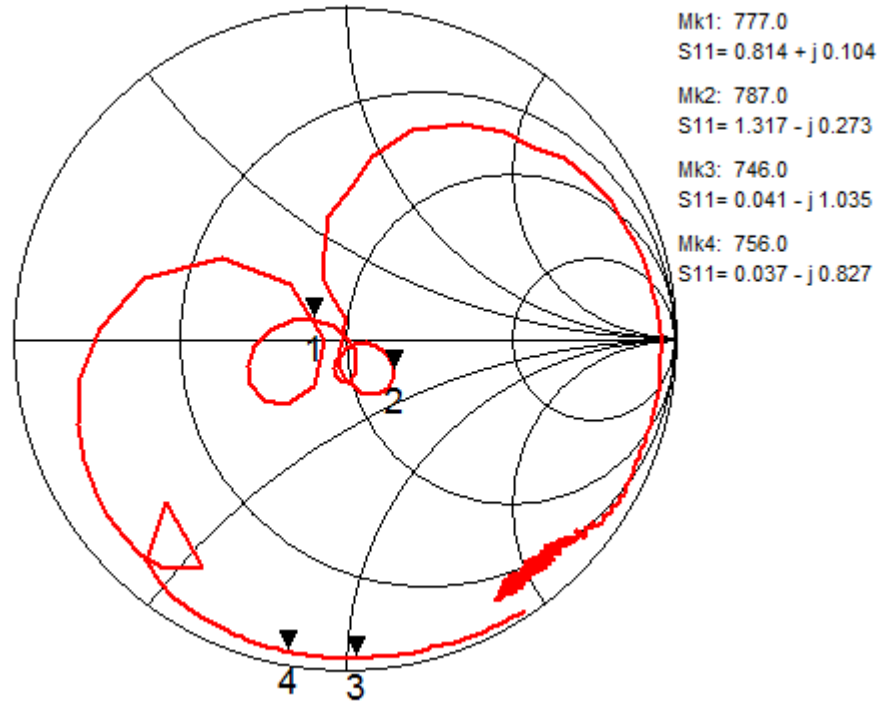


Fig.5 Impedance (INPUT)

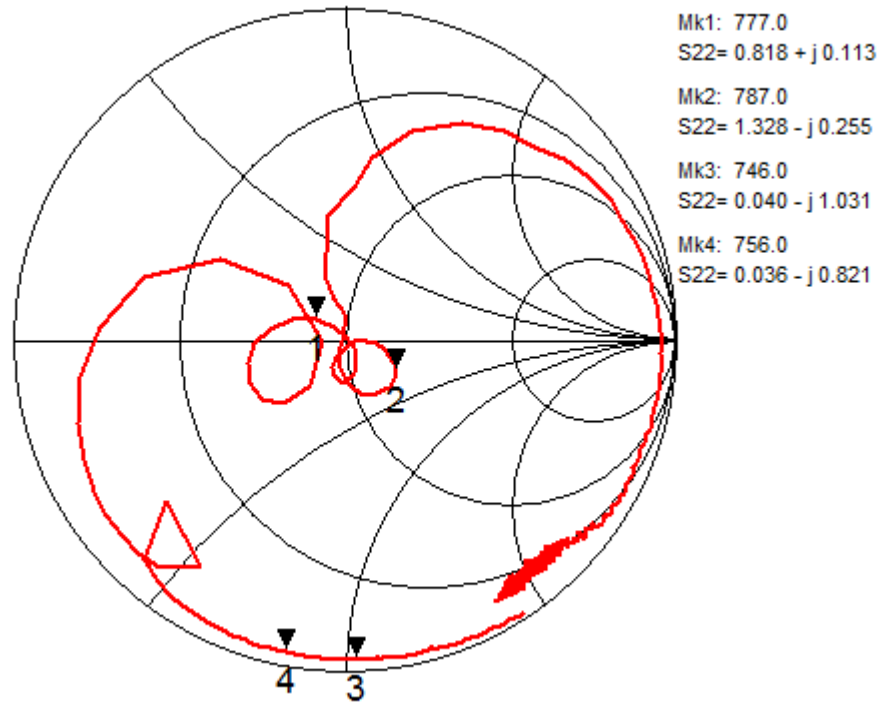


Fig.6 Impedance (OUTPUT)



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## Ordering Code

| Ordering Code    | Packing     | Reel size             | Status |
|------------------|-------------|-----------------------|--------|
| F5QA782M0M2AZ-J  | Tape & Reel | 5,000pcs.             | MP     |
| F5QA782M0M2AZ-JA | Tape & Reel | less than 5,000 pcs.  | MP     |
| F5QA782M0M2AZ-Y  | Tape & Reel | 15,000pcs             | MP     |
| F5QA782M0M2AZ-YA | Tape & Reel | less than 15,000 pcs. | MP     |
| F5QA782M0M2AZ-Q  | Bulk        | few pcs.              | MP     |

\*Minimum order quantity (MOQ) is assigned for each inquiry, Please contact to Sales Representatives..

\*MP : Mass Production

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Please conduct validation and verification of products in actual condition of mounting and operating environment before commercial shipment of the equipment.

This product is for general electronics equipment such as Audio-Visual equipment, household electronics, office supplies, information services and telecommunications; therefore, in case this product is used for any medical equipment, space equipment, nuclear equipment or disaster prevention equipment, please contact TAIYO YUDEN in advance.

In case this product is used for general electronics equipment or circuits which require high safety and high reliability, thoroughly evaluate on safety and add a protection circuit if necessary.

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