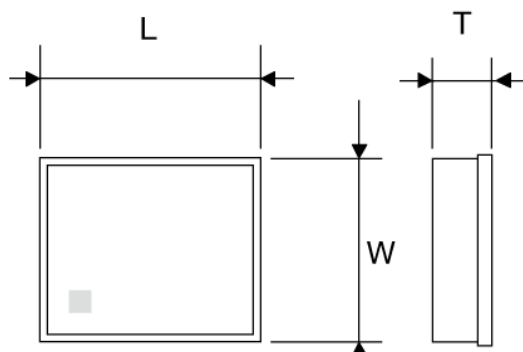


SAW Filter

FAR-F6KA-1G5754-L4AJ



■ Features

- Item Summary
GPS, 504
- Lifecycle Stage
Mass Production
- Standard packaging quantity (minimum)
Taping Embossed 3000 , 15000pcs

■ Products characteristics table

| | |
|-------------------|--------------|
| Temperature Range | -30 to +85°C |
| Use | GPS |
| Insertion Loss | 0.9dB |
| RoHS Compliance | Yes |
| Halogen Free | Yes |
| Soldering Method | Reflow |

■ External Dimensions

| | |
|---|-----------------|
| L | 1.4mm +0.1:-0.1 |
| W | 1.0mm +0.1:-0.1 |
| T | 0.5mm max |

2015.02.05

The data is reference only. Electrical characteristics vary depending on environment or measurement condition.
 TAIYO YUDEN reserves the right to make change to the Date at any time without notice.
 Before making final selection, please check product specification.



MSL1

* Pb Free Part

| | | | |
|---------------|-------------------------|--|----------------|
| Customer Name | Standard specifications | TAIYO YUDEN Mobile Technology Co.,Ltd. | |
| System | GPS | Date | March 31, 2010 |
| Part Number | FAR-F6KA-1G5754-L4AJ | Version 1.1a | |

Table 1 Electrical Specification

| Passband : 1574.42 ~ 1576.42 MHz | | | | | | |
|----------------------------------|-------------------|------------------------------|------|------|------|--------|
| Parameter | Frequency | Value | | | Unit | Remark |
| | | Min. | Typ. | Max. | | |
| Insertion loss | 1574.42 ~ 1576.42 | - | 0.9 | 1.3 | dB | |
| Ripple in passband | 1574.42 ~ 1576.42 | - | 0.1 | 0.5 | dB | |
| Absolute attenuation | DC ~ 1476 | 40 | 44 | - | dB | |
| | 1476 ~ 1526 | 37 | 42 | - | dB | |
| | 1625~1676 | 41 | 48 | - | dB | |
| | 1710 ~ 1785 | 48 | 56 | - | dB | |
| | 1850 ~ 1910 | 44 | 52 | - | dB | |
| | 1910 ~ 1980 | 43 | 50 | - | dB | |
| | 1980 ~ 2500 | 35 | 42 | - | dB | |
| | 2500 ~ 3000 | 30 | 37 | - | dB | |
| | 3000 ~ 6000 | 10 | 27 | - | dB | |
| VSWR Input | 1574.42 ~ 1576.42 | - | 1.1 | 1.7 | - | |
| VSWR Outout | 1574.42 ~ 1576.42 | - | 1.1 | 1.7 | - | |
| Input Impedance | | 50 | | | Ohm | |
| Output Impedance | | 50 | | | ohm | |
| Operating Temperature | | -30 to +85 | | | °C | |
| Device size (L x W x H) | | 1.4typ. x 1.0typ. x 0.5 max. | | | mm | |



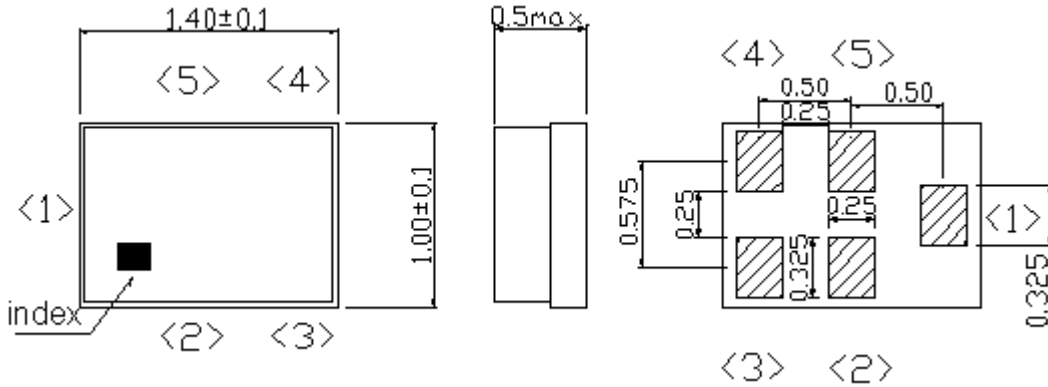
MSL1

* Pb Free Part

| | | | |
|---------------|-------------------------|--|----------------|
| Customer Name | Standard specifications | TAIYO YUDEN Mobile Technology Co.,Ltd. | |
| System | GPS | Date | March 31, 2010 |
| Part Number | FAR-F6KA-1G5754-L4AJ | Version 1.1a | |

Dimension

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

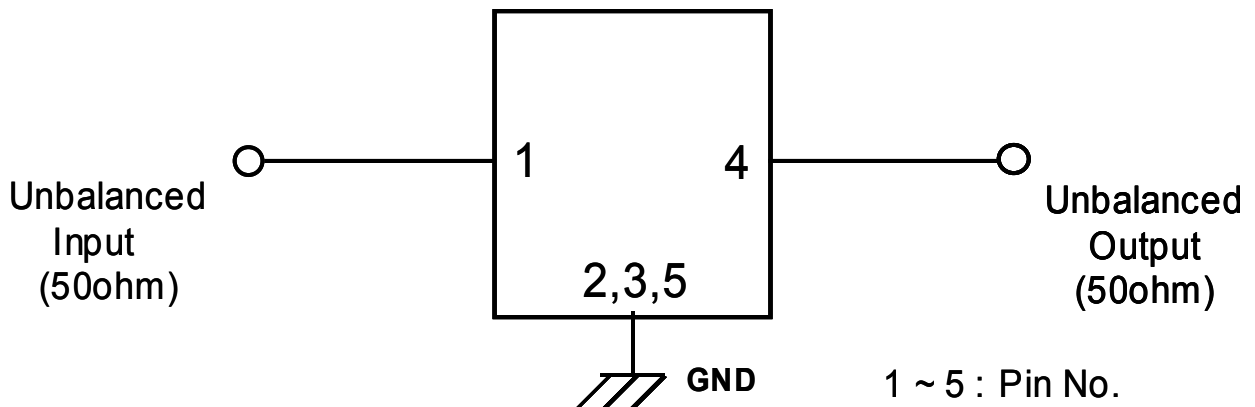


Unit: mm

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





MSL1

* Pb Free Part

| | | | |
|---------------|-------------------------|--|----------------|
| Customer Name | Standard specifications | TAIYO YUDEN Mobile Technology Co.,Ltd. | |
| System | GPS | Date | March 31, 2010 |
| Part Number | FAR-F6KA-1G5754-L4AJ | Version 1.1a | |

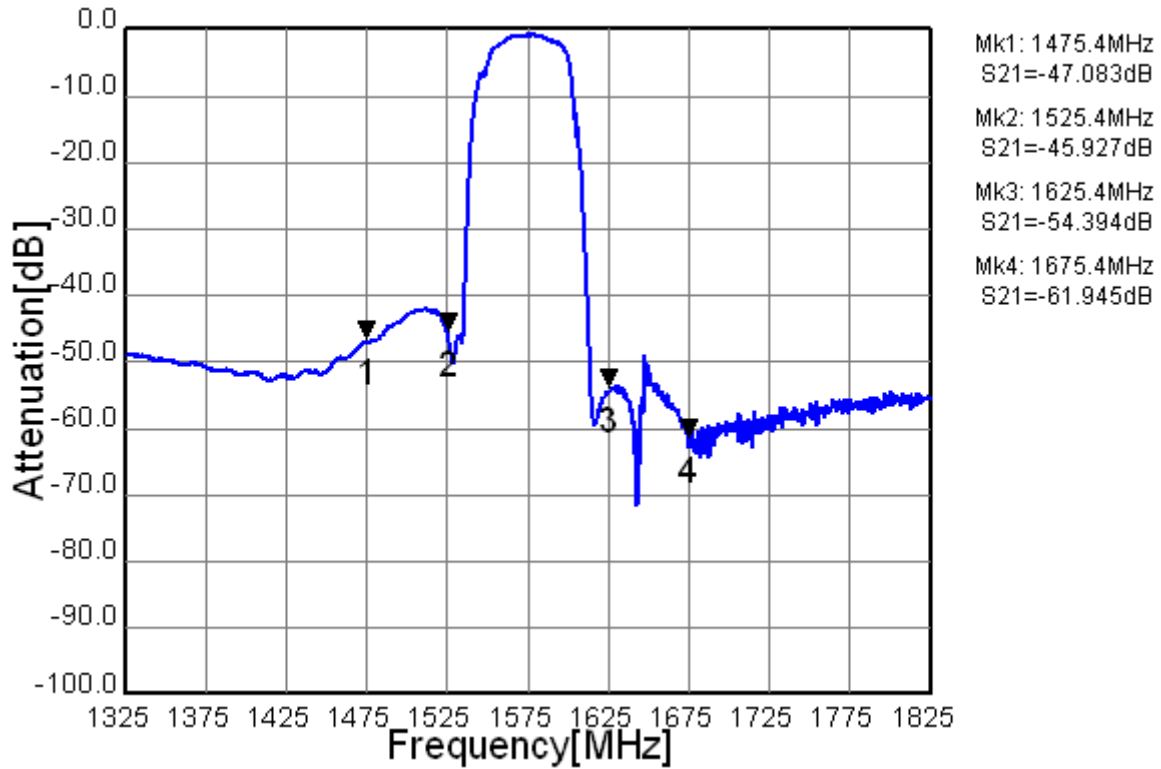


Fig.1 Pass-band Characteristics

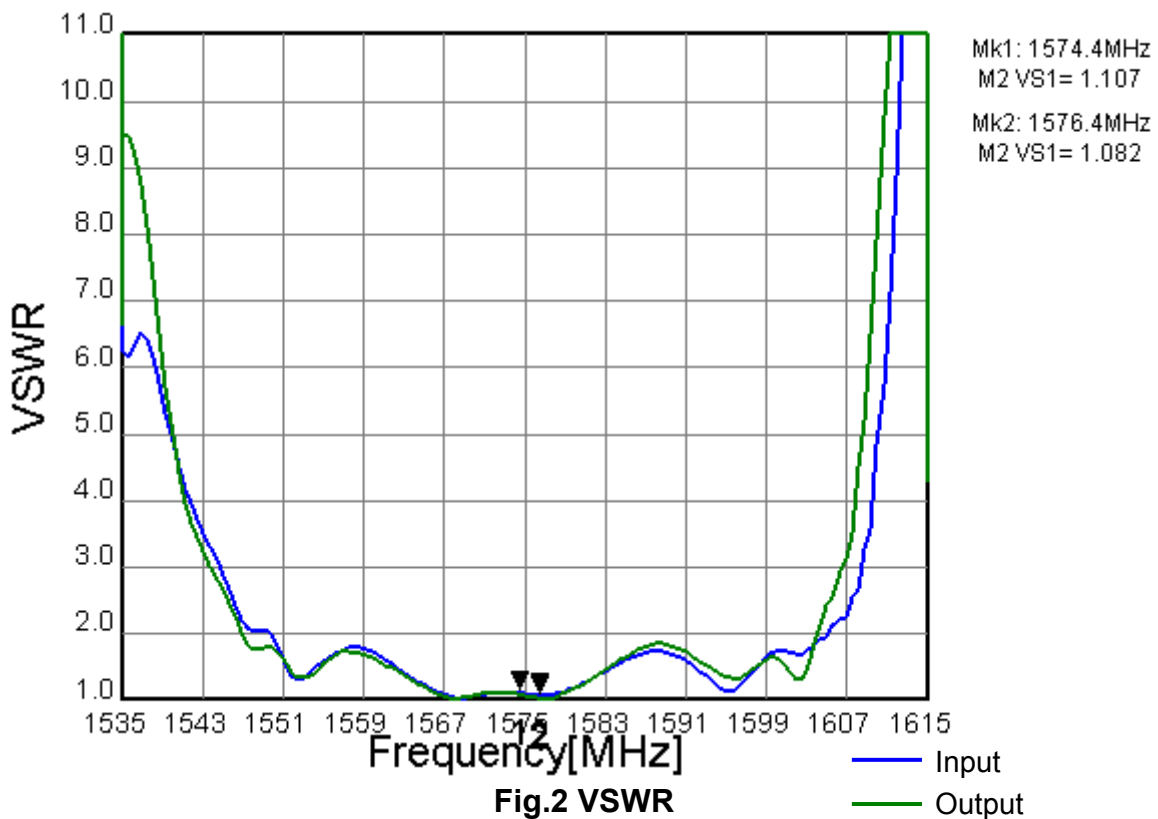


Fig.2 VSWR



MSL1

* Pb Free Part

| | | | |
|---------------|-------------------------|--|----------------|
| Customer Name | Standard specifications | TAIYO YUDEN Mobile Technology Co.,Ltd. | |
| System | GPS | Date | March 31, 2010 |
| Part Number | FAR-F6KA-1G5754-L4AJ | Version 1.1a | |

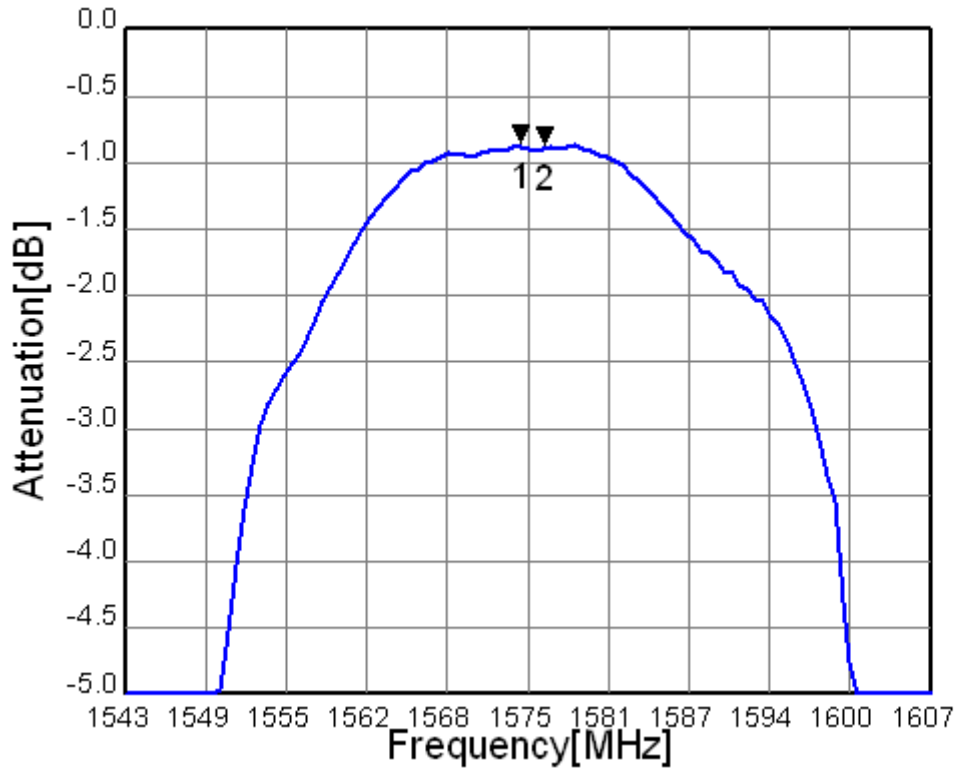


Fig.3 In-band Characteristics

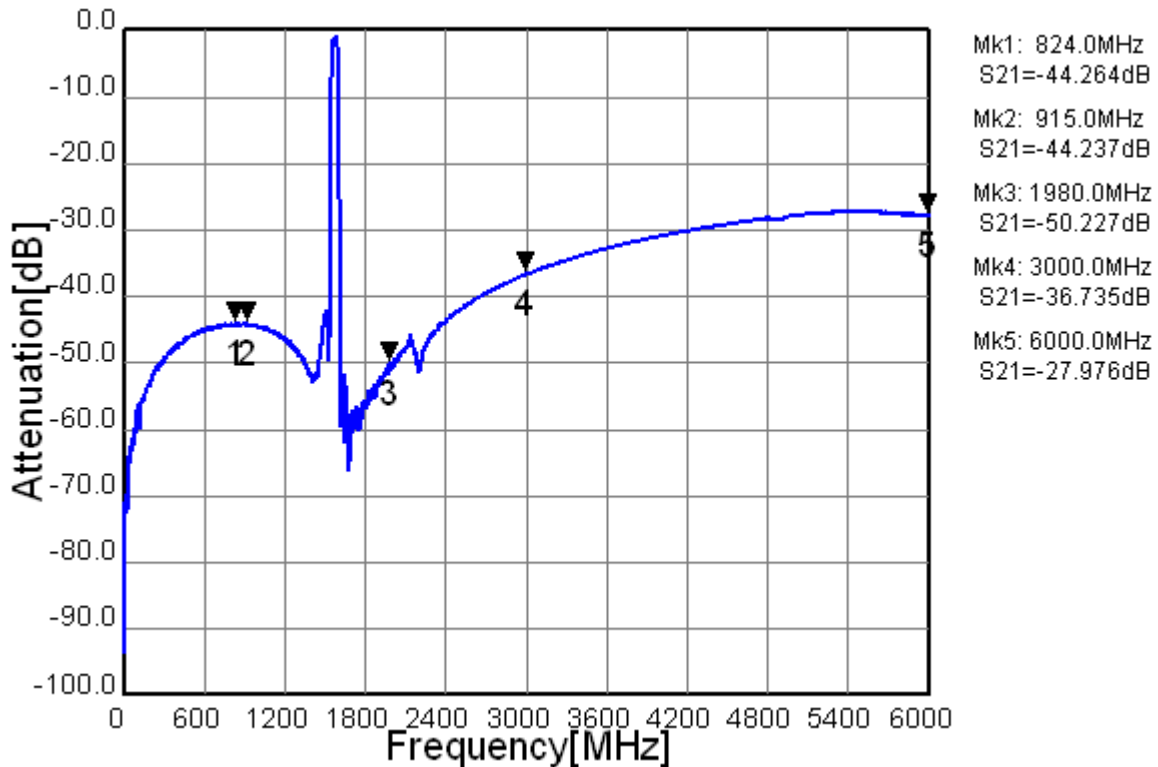


Fig.4 Wide-band Characteristics



MSL1

* Pb Free Part

| | | | |
|---------------|-------------------------|--|----------------|
| Customer Name | Standard specifications | TAIYO YUDEN Mobile Technology Co.,Ltd. | |
| System | GPS | Date | March 31, 2010 |
| Part Number | FAR-F6KA-1G5754-L4AJ | Version 1.1a | |

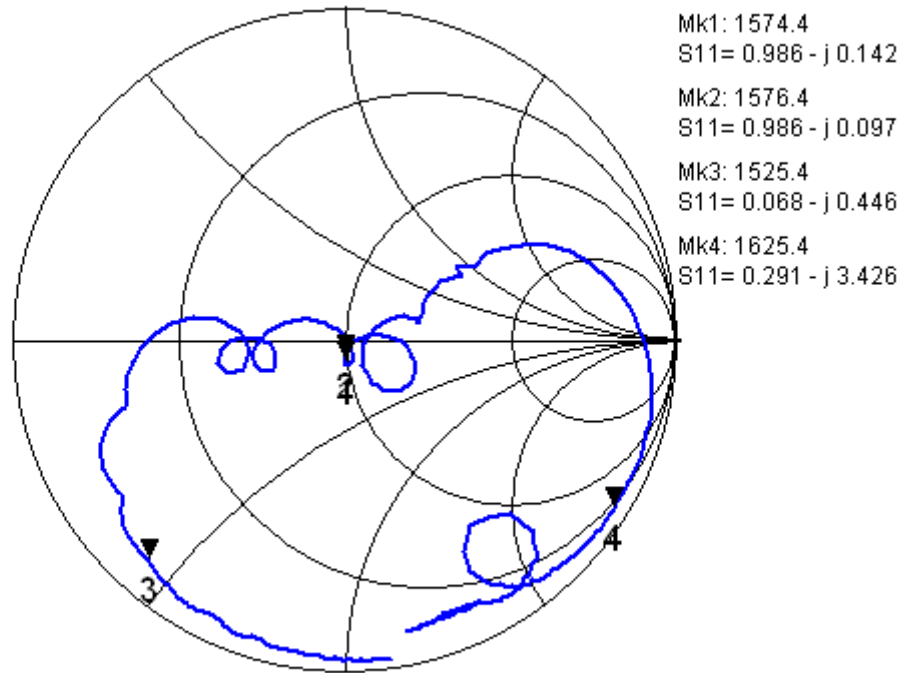


Fig.5 Input impedance

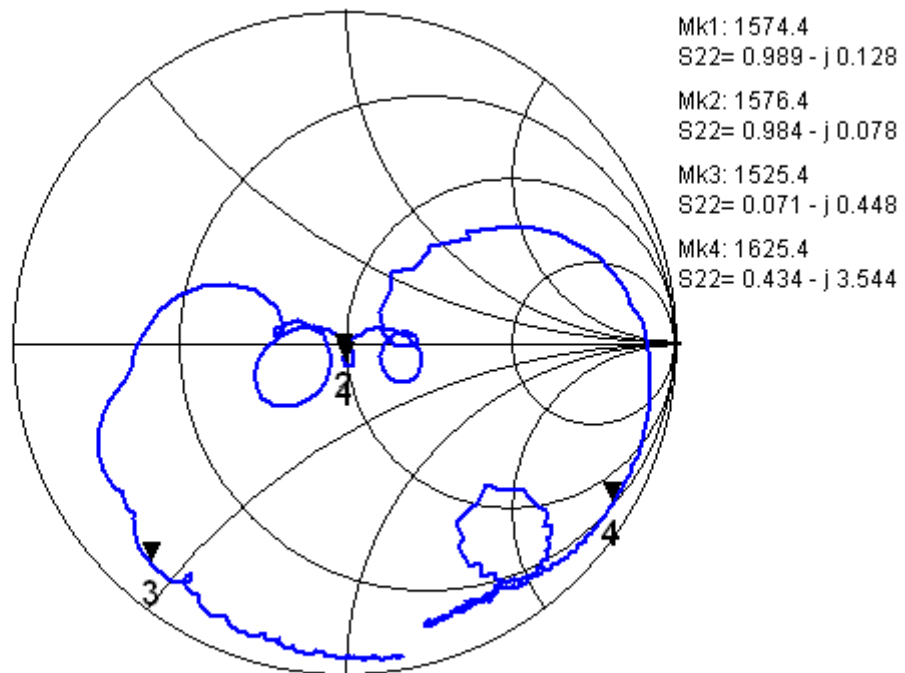


Fig.6 Output impedance