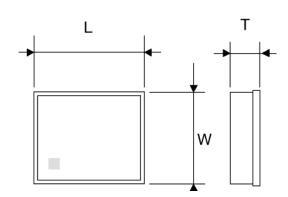
Spec Sheet

SAW Filter

FAR-F5KB-942M50-B4ES



Features

- Item Summary GSM900 , Rx, 504
- Lifecycle Stage
 Mass Production
- Standard packaging quantity (minimum)
 Taping Embossed 3000, 15000pcs

Products characteristics table

| Temperature Range | -30 to +85℃ |
|--------------------------|-------------|
| Band(3GPP) | B8 |
| GSM | 900 |
| Use | GSM |
| Transmitting / Receiving | Rx Filter |
| Insertion Loss | 2.4dB |
| Attenuation | 29dB |
| 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 |
| Т | 0.5mm max |

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.

2015.06.03



| Customer Name | Standard Specification | TAIYO YUDEN Mobil | e Technology Co.,Ltd. |
|---------------|------------------------|-------------------|-----------------------|
| System | EGSM-Rx (50/100) | Date | March 31, 2010 |
| Part Number | FAR-F5KB-942M50-B4ES | Version 1.0b | |

Table 1 Electrical Specification

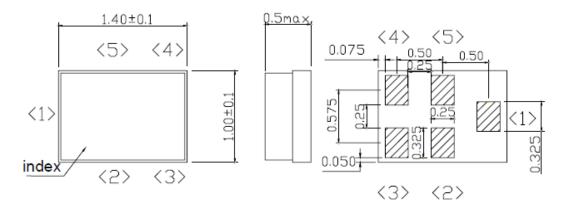
| Passband : 925 ~ 960 MHz | | | | | | |
|------------------------------------|-------------|-----------|--------------------|----------|--------|--|
| Item | Condition | 5 | Specification Unit | | Remark | |
| item | (MHz) | Min. | Тур. | Max. | Offic | |
| Insertion Loss | 925 ~ 960 | - | 2.4 | 2.8 | dB | |
| Ripple | 925 ~ 960 | - | 0.4 | 1.8 | dB | |
| Absolute attenuation | DC ~ 880 | 40 | 65 | - | dB | |
| | 880 ~ 905 | 30 | 60 | - | dB | |
| | 905 ~ 915 | 15 | 29 | - | dB | |
| | 980 ~ 1025 | 25 | 31 | - | dB | |
| | 1025 ~ 2880 | 36 | 57 | - | dB | |
| | 2880 ~ 6000 | 30 | 45 | - | dB | |
| VSWR(Input) | 925 ~ 960 | - | 1.7 | 2.2 | - | |
| VSWR(Output) | 925 ~ 960 | - | 1.8 | 2.2 | - | |
| Amplitude Balance (S21/S31) | 925 ~ 960 | -1.0 | -0.2/ +0.2 | +1.0 | dB | |
| Phase Balance ((ΦS21-ΦS31)+180) | 925 ~ 960 | -10 | -1/+2 | +10 | deg | |
| Input Impedance | Unbalanced | | 50 | | ohm | |
| Output Impedance | Balanced | | 100 | | ohm | |
| Input Power | 925 ~ 960 | - | - | +13 | dBm | |
| Operating temp | erature | | -30 ~ +85 | | °C | |
| Device siz | e | 1.4typ. : | x 1.0typ. x | 0.50typ. | mm | |



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| Part Number | FAR-F5KB-942M50-B4ES | Version 1.0b | |

Dimension

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

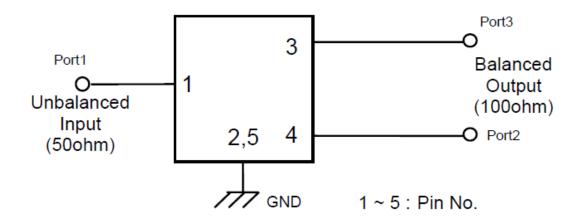


Unit: mm

Pin Configuration

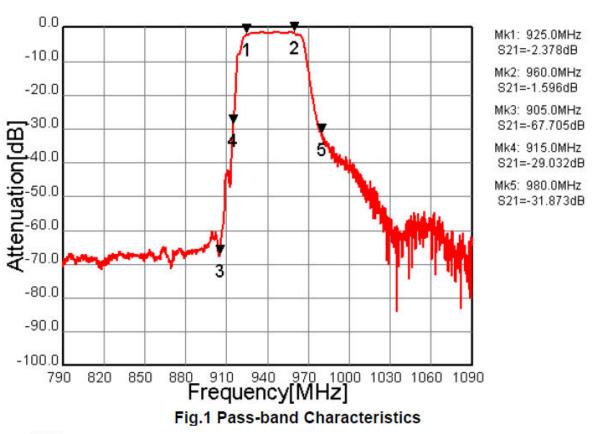
| Pin No. | Symbol | Function | |
|---------|--------|----------------|--|
| 1 | IN | Unbalanced pin | |
| 2 | GND | Ground | |
| 3 | OUT | Balanced pin | |
| 4 | OUT | Balanced pin | |
| 5 | GND | Ground | |

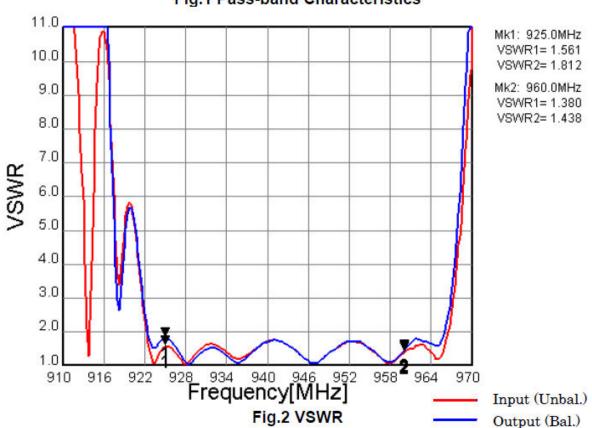
Evaluation Circuit





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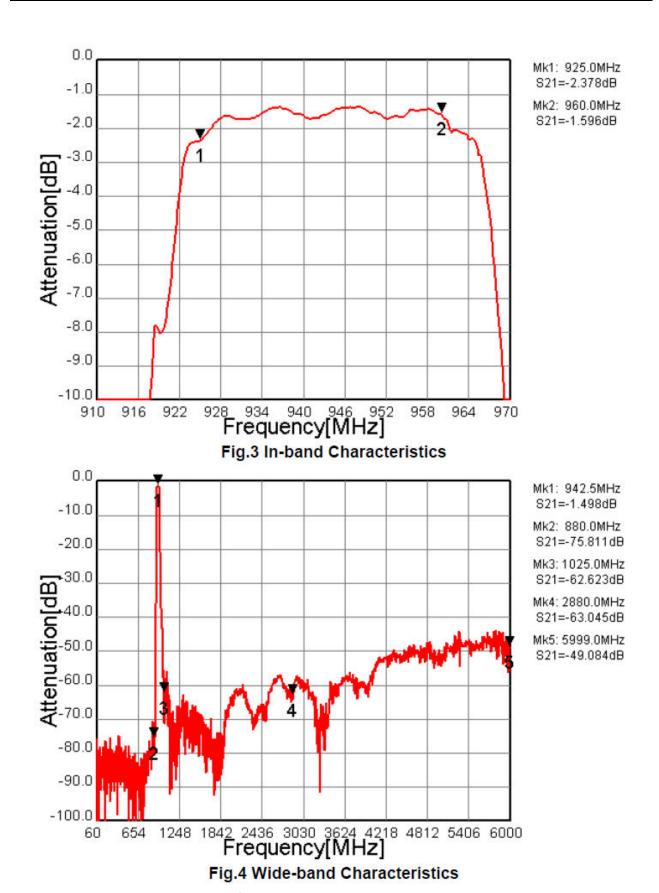




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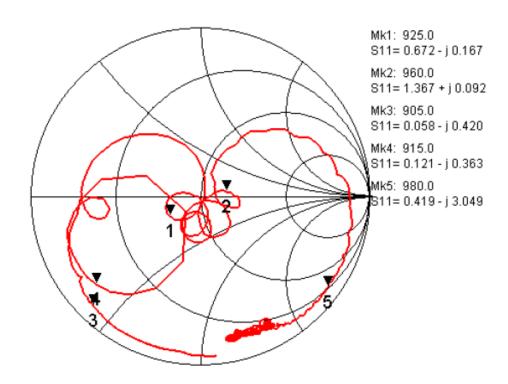


Fig.5 Input Impedance (Unbalance)

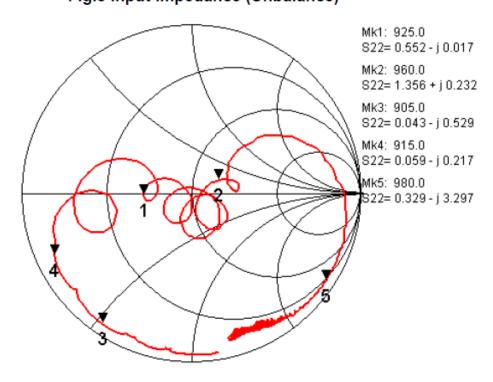
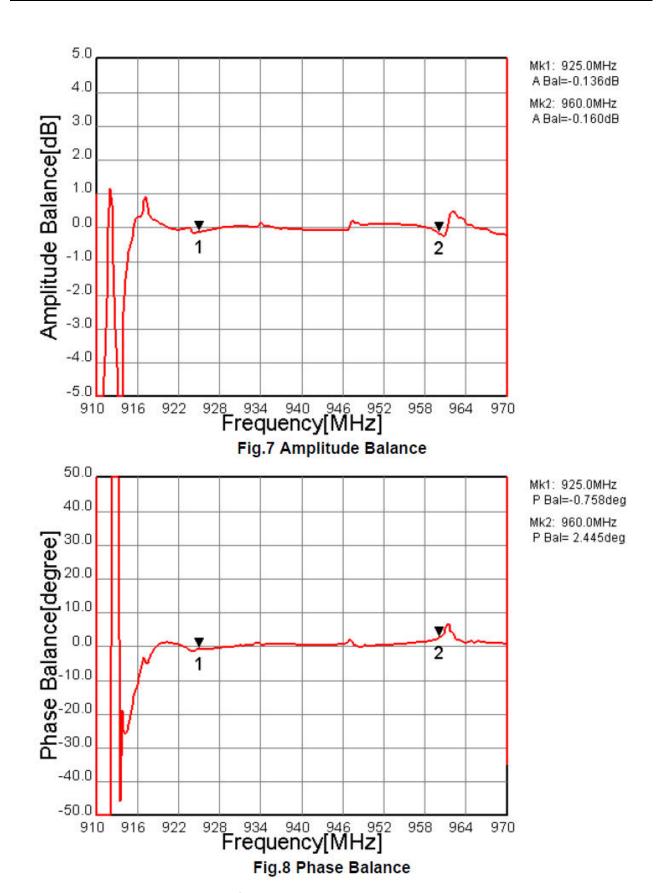


Fig.6 Output Impedance (Balance)





| Customer Name | Standard Specification | TAIYO YUDEN Mobil | e Technology Co.,Ltd. |
|---------------|------------------------|-------------------|-----------------------|
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