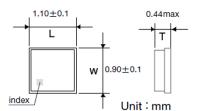
Spec Sheet

FBAR/SAW Devices (SAW Type)

F5BA722M5M6UW



Features

- Item Summary
 SAW, Rx Type, 1.1x0.9x0.44mm
 Band29
- Lifecycle Stage
 Mass Production
- Standard packaging quantity (minimum)
 Taping Embossed 5000, 15000pcs

■ Products characteristics table

| System | LTE |
|-------------------------------|--------------|
| Туре | SAW |
| Function | Rx Type |
| band | Band29 |
| Insertion Loss (typ) | 1.6 dB |
| Attenuation (typ) | 38 dB |
| Operating Temp. Range | -30 to +85 ℃ |
| RoHS2 Compliance (10 subst.) | Yes |
| REACH Compliance (173 subst.) | Yes |
| Halogen Free | Yes |
| Soldering | Reflow |

■ External Dimensions

| Dimension L | 1.1 ±0.10 mm |
|-------------|--------------|
| Dimension W | 0.9 ±0.10 mm |
| Dimension T | Max 0.44 mm |

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

2017.09.07





*Pb Free part

| Customer Name | Standard | TAIYO YUDEN Mobile Technology Co., Ltd. | |
|---------------|---------------|---|--------------|
| System | Band 29 Rx | DATE | Nov. 5, 2015 |
| Part Number | F5BA722M5M6UW | Version 2.0bA | Final |

Table 1.Electrical specifications

| 14 - | | Condition | Specifications | | | Remarks | | | |
|----------|--------------------------------------|---------------------|------------------|--------------------|------|-------------|---------|----|--|
| Ite | m | (MHz) | Min. | Тур. | Max. | Unit | Remarks | | |
| Insertio | n Loss | 717-728 | - | 1.6 | 2.5 | dB(*1) | | | |
| Rip | ple | 717-728 | - | 0.5 | 1.8 | dB | | | |
| VSWR | Input | 717-728 | - | 1.5 | 2.5 | - | | | |
| VSVVK | Output | 717-728 | - | 1.5 | 2.5 | - | | | |
| Input F | Power | 717-728 | | Bm Ta≕ 000h, C\ | | | | | |
| | | 50-698 | 30 | 40 | 1 | dB | | | |
| | | 698-704 | 30 | 38 | ı | dB | | | |
| | | 739-746 | 10 | 20 | 1 | dB | | | |
| Abso | | 1710-1755 | 40 | 46 | - | dB | | | |
| attenu | ation | 1850-1910 | 40 | 45 | - | dB | | | |
| | | 2400-2500 | 35 | 42 | - | dB | | | |
| | | 4900-6000 | 30 | 36 | - | dB | | | |
| Termir | nating | Input port | | 50 | | Ω | | | |
| Imped | lance | Output port | | 50 | | Ω | | | |
| Oper | ating Tem | perature -30 to +85 | | -30 to +85 | | -30 to +85 | | °C | |
| Maxir | num DC i | n all ports | 3 | | VDC | Device only | | | |
| DC im | pedance | to ground | 100 | | | Device only | | | |
| (L typ | Device size (L typ.x W typ.x H max.) | | 1.1 x 0.9 x 0.44 | | mm | | | | |

^(*1) Specification of insertion loss excludes loss that comes from the test board.



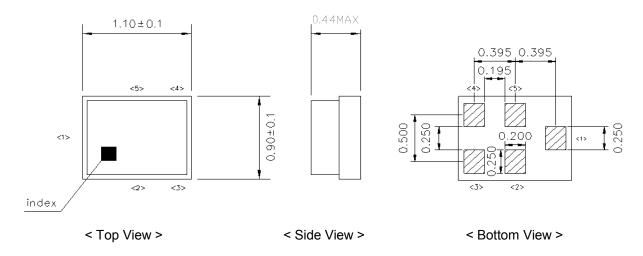




*Pb Free part

| Customer Name | Standard | TAIYO YUDEN Mobile Technology Co.,Ltd. | |
|---------------|---------------|--|--------------|
| System | Band 29 Rx | DATE | Nov. 5, 2015 |
| Part Number | F5BA722M5M6UW | Version 2.0bA | Final |

Dimensions



Unit: mm

Pin assignment

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

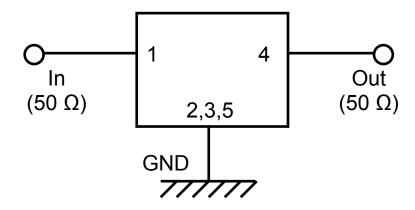
Figure 1. Dimensions and Pin assignment





| Customer Name | Standard | TAIYO YUDEN Mobile Technology Co., Ltd. | |
|---------------|---------------|---|--------------|
| System | Band 29 Rx | DATE | Nov. 5, 2015 |
| Part Number | F5BA722M5M6UW | Version 2.0bA | Final |

Evaluation Circuit



Recommended foot print pattern

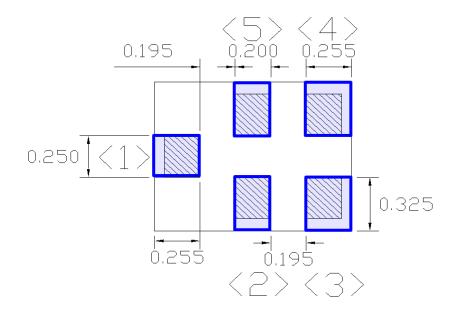


Figure 2. Recommended foot print pattern







*Pb Free part

| Customer Name | Standard | TAIYO YUDEN Mobile Technology Co., Ltd. | |
|---------------|---------------|---|--------------|
| System | Band 29 Rx | DATE | Nov. 5, 2015 |
| Part Number | F5BA722M5M6UW | Version 2.0bA | Final |

Passband

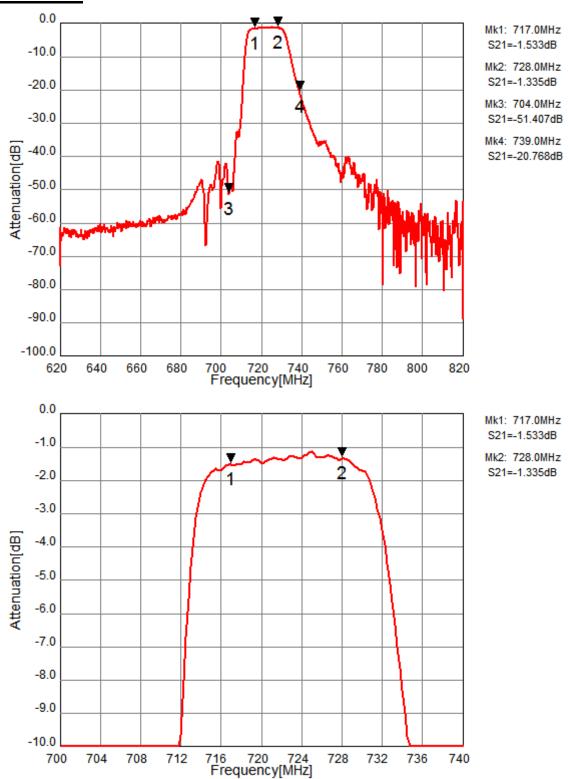


Figure 3-1. Electrical Characteristics

These data excludes loss that comes from the test board.







*Pb Free part

| Customer Name | Standard | TAIYO YUDEN Mobile Technology Co., Ltd | |
|---------------|---------------|--|--------------|
| System | Band 29 Rx | DATE | Nov. 5, 2015 |
| Part Number | F5BA722M5M6UW | Version 2.0bA | Final |

Input Port

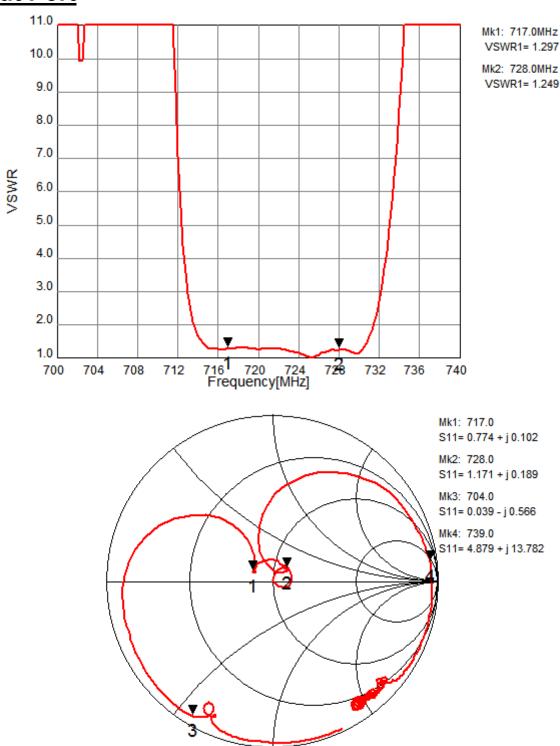


Figure 3-2. Electrical Characteristics







*Pb Free part

| Customer Name | Standard | TAIYO YUDEN Mobile Technology Co.,Ltd | |
|---------------|---------------|---------------------------------------|--------------|
| System | Band 29 Rx | DATE | Nov. 5, 2015 |
| Part Number | F5BA722M5M6UW | Version 2.0bA | Final |

Output Port

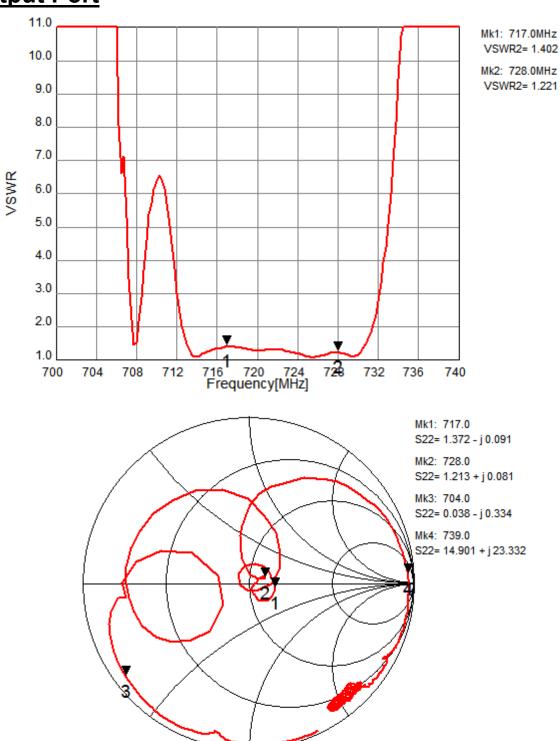


Figure 3-3. Electrical Characteristics







*Pb Free part

| Customer Name | Standard | TAIYO YUDEN Mobile Technology Co.,Ltd. | |
|---------------|---------------|--|--------------|
| System | Band 29 Rx | DATE | Nov. 5, 2015 |
| Part Number | F5BA722M5M6UW | Version 2.0bA | Final |

Wideband

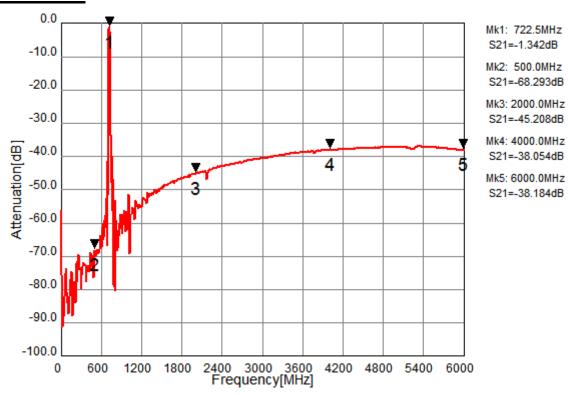


Figure 3-4. Electrical Characteristics





*Pb Free part

| Customer Name | Standard | TAIYO YUDEN Mobile Technology Co., Ltd. | |
|---------------|---------------|---|--------------|
| System | Band 29 Rx | DATE | Nov. 5, 2015 |
| Part Number | F5BA722M5M6UW | Version 2.0bA | Final |

Ordering Code

| Ordering Code | Packing | Reel size | Status |
|------------------|-------------|-----------------------|--------|
| F5BA722M5M6UW-J | Tape & Reel | 5,000 pcs. | MP |
| F5BA722M5M6UW-JA | Tape & Reel | Less than 5,000 pcs. | MP |
| F5BA722M5M6UW-Y | Tape & Reel | 15,000 pcs. | MP |
| F5BA722M5M6UW-YA | Tape & Reel | Less than 15,000 pcs. | MP |
| F5BA722M5M6UW-Q | Bulk | few pcs. | MP |

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

Notice

All of the contents specified herein are subject to change without notice due to technical improvements, etc.

Please contact TAIYO YUDEN Co., Ltd. for further details of product specifications.

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.



^{*}MP: Mass Production

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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