

# Datasheet of SAW Filter

## 1411 ISM900MHz for US

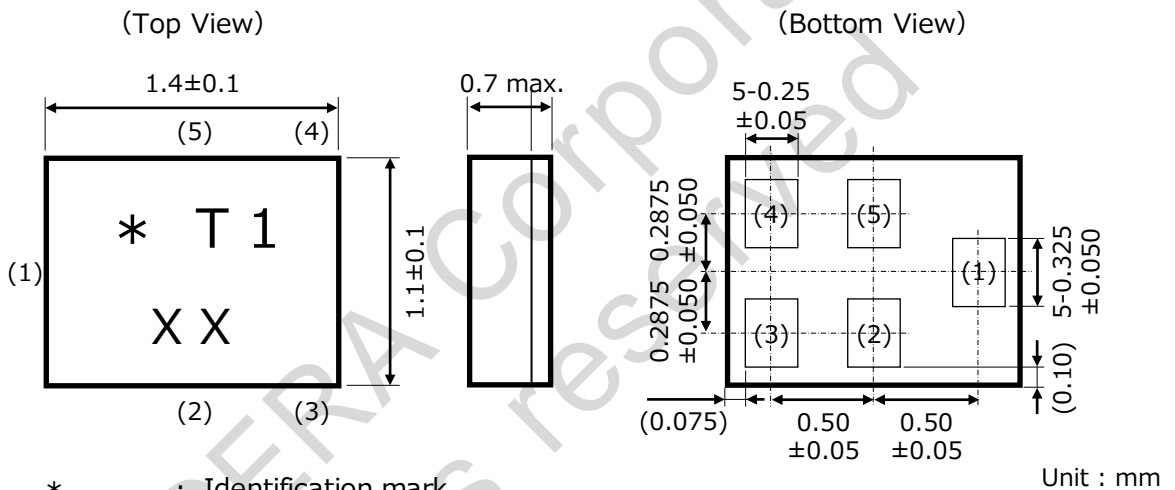
KYOCERA Part No. : SF14-0915M5UUP1

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### Rating

| Items                         | Rating     | Unit  | Note                       |
|-------------------------------|------------|-------|----------------------------|
| Operating Temperature Range   | -40 to +85 | deg.C |                            |
| Storage Temperature Range     | -40 to +85 | deg.C |                            |
| Max Input Power               | +13        | dBm   | 5,000Hours, Ta=50deg.C, CW |
| Input Port Nominal Impedance  | 50         | ohm   | Unbalance                  |
| Output Port Nominal Impedance | 50         | ohm   | Unbalance                  |

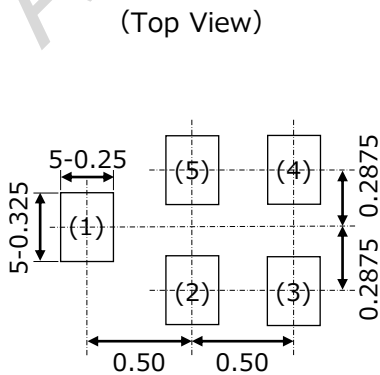
### Dimensions



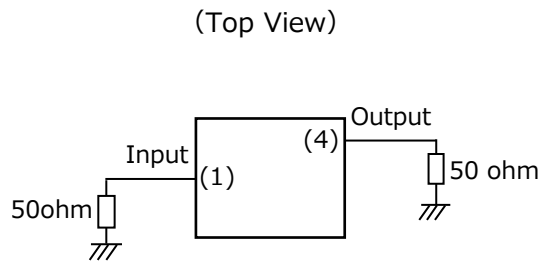
- \* : Identification mark
- T1 : Identification no.
- XX : Date code

| Pin No. | Function |
|---------|----------|
| (1)     | Input    |
| (4)     | Output   |
| Others  | GND      |

### Recommendable Land Pattern



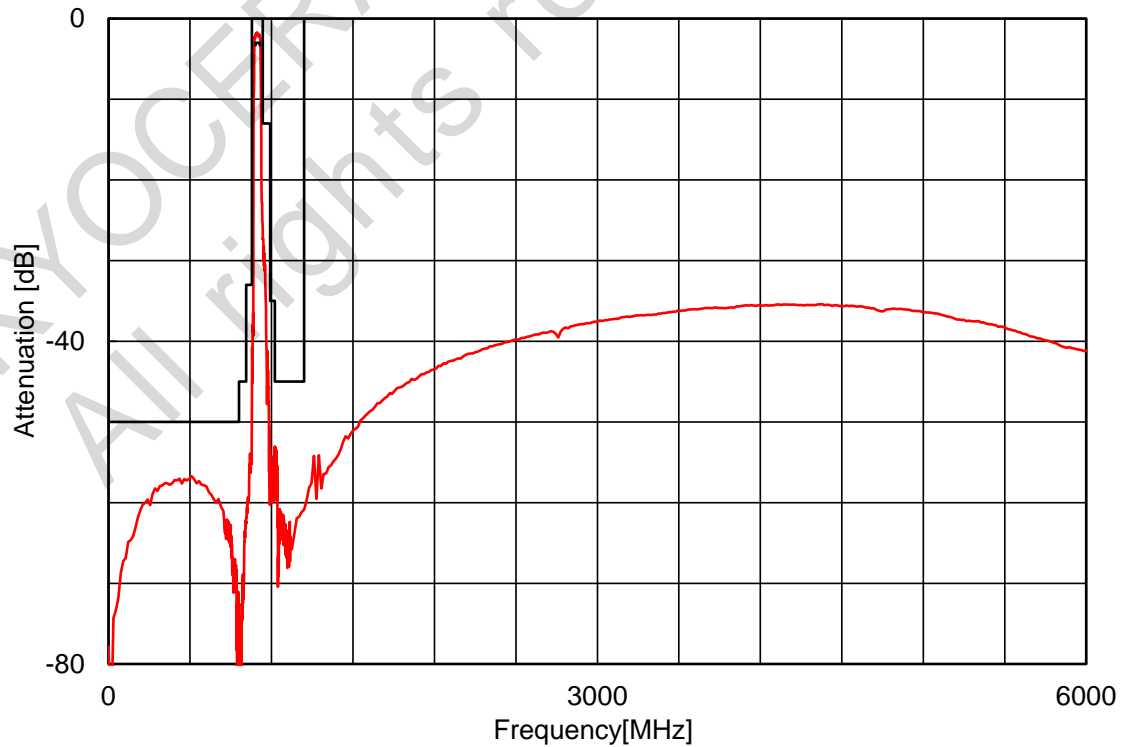
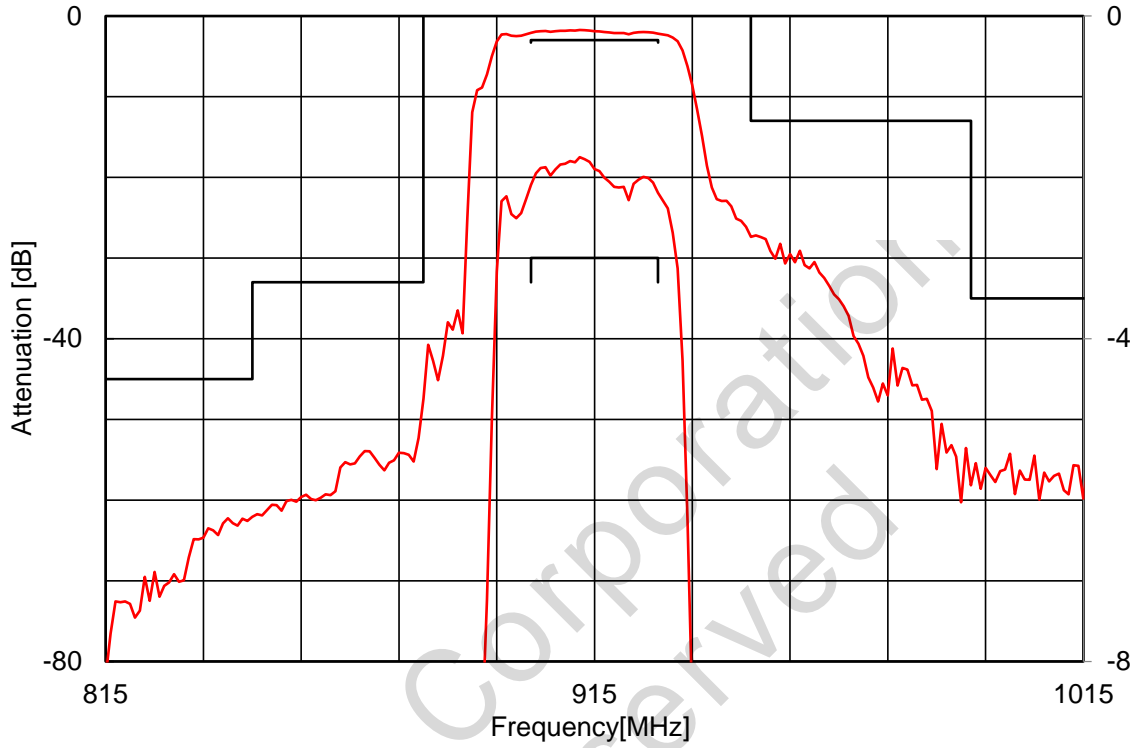
### Measurement Circuit



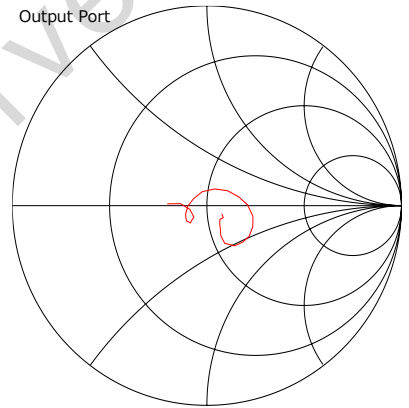
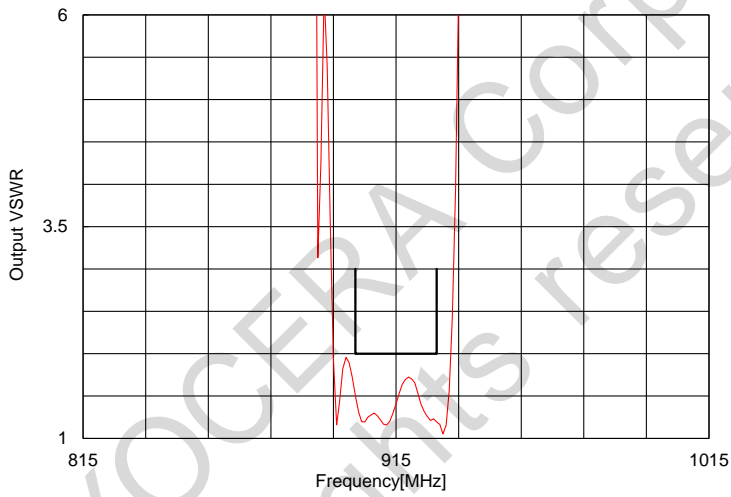
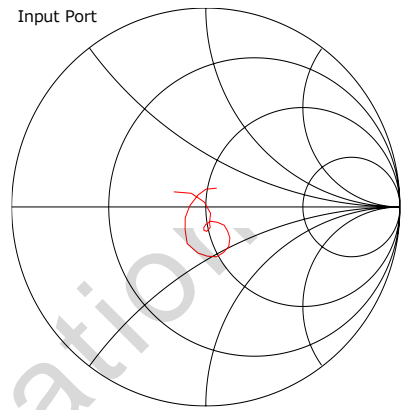
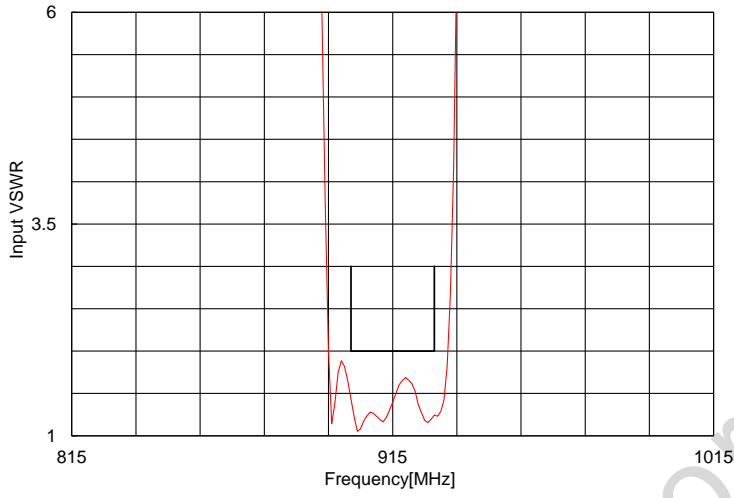
## Electrical Characteristics

| ITEMS                    | Frequency<br>(MHz) |         | Characteristics |      |      | Unit | Note      |
|--------------------------|--------------------|---------|-----------------|------|------|------|-----------|
|                          |                    |         | min.            | typ. | max. |      |           |
| Nominal Center Frequency | -                  |         | 915             |      |      | MHz  |           |
| Insertion Loss           | 902                | to 928  | -               | 1.8  | 3.0  | dB   |           |
| Ripple (peak to peak)    | 902                | to 928  | -               | 0.5  | 1.8  | dB   |           |
| Input VSWR               | 902                | to 928  | -               | 1.7  | 2.0  | -    | -30~+85°C |
|                          |                    |         |                 |      | 2.5  | -    |           |
| Output VSWR              | 902                | to 928  | -               | 1.7  | 2.0  | -    | -30~+85°C |
|                          |                    |         |                 |      | 2.5  | -    |           |
| Absolute Attenuation     | 0.3                | to 800  | 50              | 56   | -    | dB   |           |
|                          | 800                | to 845  | 45              | 62   | -    | dB   |           |
|                          | 845                | to 880  | 33              | 47   | -    | dB   |           |
|                          | 947                | to 992  | 13              | 27   | -    | dB   |           |
|                          | 992                | to 1020 | 35              | 53   | -    | dB   |           |
|                          | 1020               | to 1200 | 45              | 53   | -    | dB   |           |

### Electrical Characteristics



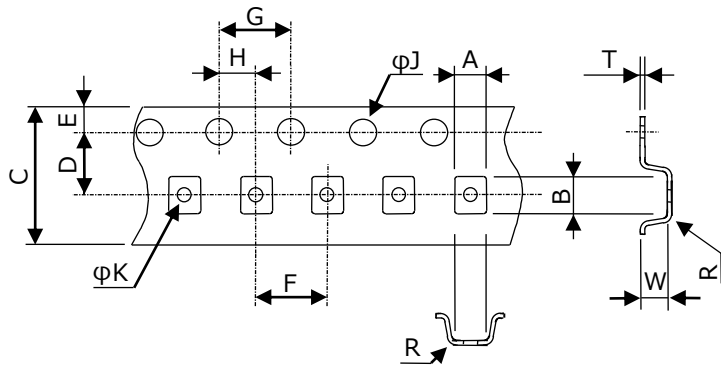
### Electrical Characteristics



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### Tape & Reel Specification

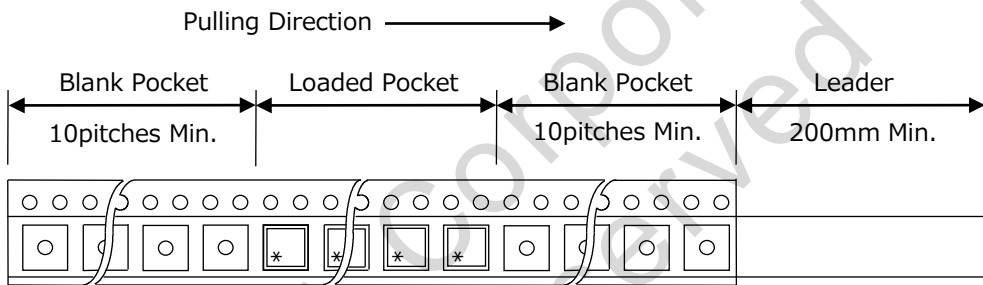
#### [Tape]



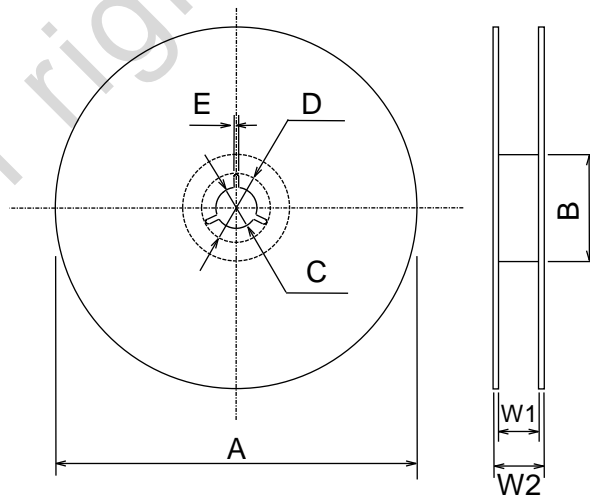
Unit : mm

| Part | Dimension  |
|------|------------|
| A    | 1.3±0.05   |
| B    | 1.6±0.05   |
| C    | 8.0±0.15   |
| D    | 3.5±0.05   |
| E    | 1.75±0.1   |
| F    | 4.0±0.1    |
| G    | 4.0±0.1    |
| H    | 2.0±0.05   |
| φJ   | 1.5+0.1/-0 |
| φK   | 0.5±0.1    |
| R    | 0.2 Max    |
| W    | 0.7±0.05   |
| T    | 0.2±0.05   |

W : Dimension is depth of pockets.



#### [Reel]



|           |             |             |            |          |
|-----------|-------------|-------------|------------|----------|
| Part      | A           | B           | C          | D        |
| Dimension | 180 +0/-1.5 | 60 +1.0/-0  | 13 ± 0.2   | 21 ± 0.8 |
| Part      | E           | W1          | W2         |          |
| Dimension | 2 ± 0.5     | 9.0 +1.0/-0 | 11.4 ± 1.0 |          |

Unit : mm

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