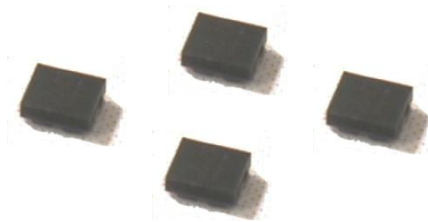




# Data Sheet of SAW Components



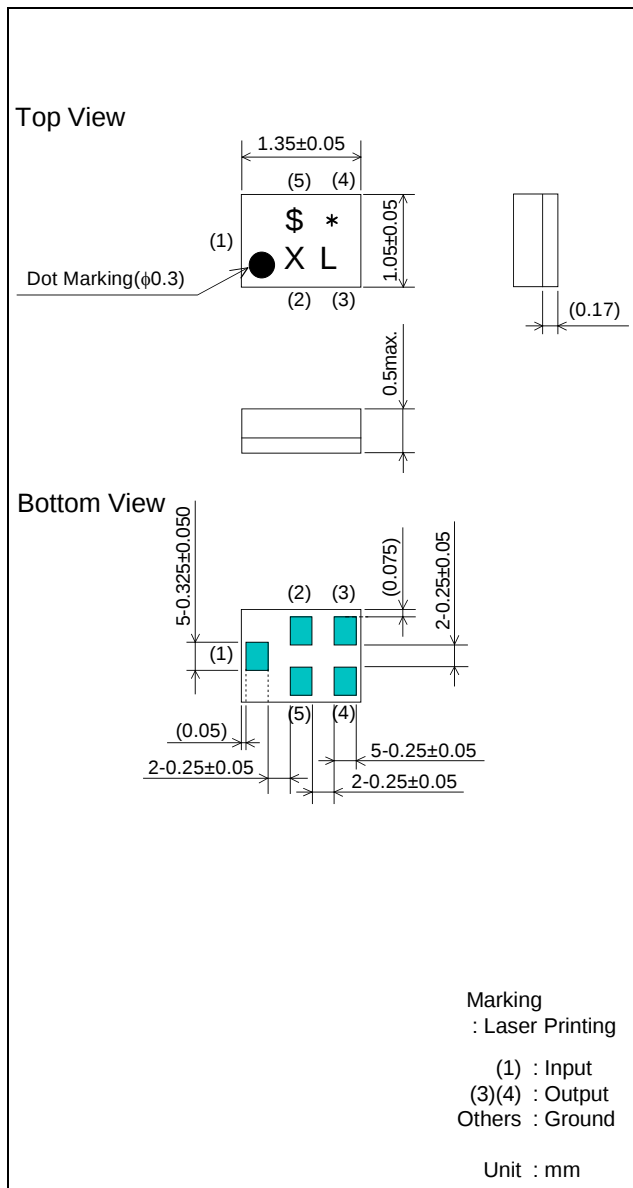
Note : Murata SAW Component is applicable for Cellular /Cordless phone (Terminal) relevant market only.

Please also read caution at the end of this document.

# SAW FILTER FOR WiMAX<sup>®</sup>(2.5G)

Murata part number : SAFEA2G56FA0F00

## Package Dimensions



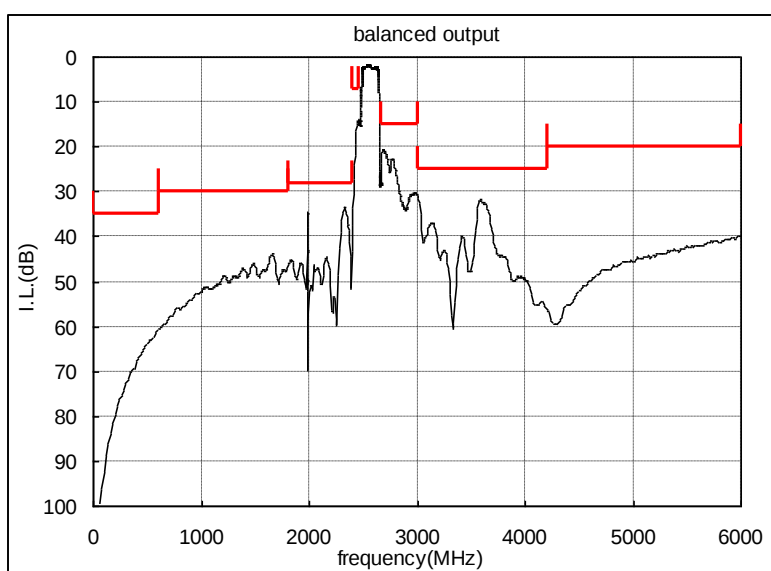
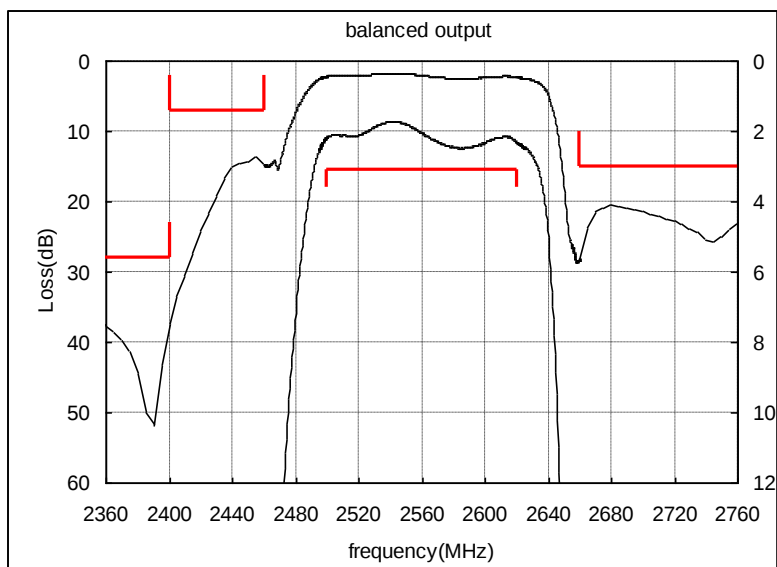
## Specification

| Item                                   | Specification             |                    |             |
|----------------------------------------|---------------------------|--------------------|-------------|
|                                        | -30 to 85°C               | 25±2°C             | typ.        |
| Nominal Center Frequency(fc)           | 2560MHz                   |                    |             |
| Insertion Loss<br>(2500 to 2620MHz)    | 3.1 dB max.               | 2.8dB max.         | 2.6 dB      |
| Absolute Attenuation                   |                           |                    |             |
| 1) 0.3 to 600 MHz                      | 35 dB min.                | 35 dB min.         | 58 dB       |
| 2) 600 to 1800 MHz                     | 30 dB min.                | 30 dB min.         | 42 dB       |
| 3) 1800 to 2400 MHz                    | 28 dB min.                | 28 dB min.         | 33 dB       |
| 4) 2400 to 2460 MHz                    | 7 dB min.                 | 10 dB min.         | 14 dB       |
| 5) 2660 to 3000 MHz                    | 15 dB min.                | 17 dB min.         | 21 dB       |
| 6) 3000 to 4200 MHz                    | 25 dB min.                | 25 dB min.         | 31 dB       |
| 7) 4200 to 6000 MHz                    | 20 dB min.                | 20 dB min.         | 38 dB       |
| Ripple Deviation<br>(2500 to 2620MHz)  | 2.0dB max.                | 1.5dB max.         | 0.6 dB      |
| VSWR<br>(2500 to 2620MHz)              | 2.4 max.                  | 2.3 max.           | 2.1         |
| Amplitude Balance<br>(2500 to 2620MHz) | ±2.2dB<br>max.            | ±2.0dB<br>max.     | -1.1dB      |
| Phase Balance<br>(2500 to 2620MHz)     | 180±12deg.<br>max.        | 180±10deg.<br>max. | 180±5.7deg. |
| Input Impedance (nominal)              | 50Ω                       |                    |             |
| Output Impedance (nominal)             | 100Ω//10nH                |                    |             |
| Input Signal Level                     | 10mW (+10dBm), 8000 hours |                    |             |

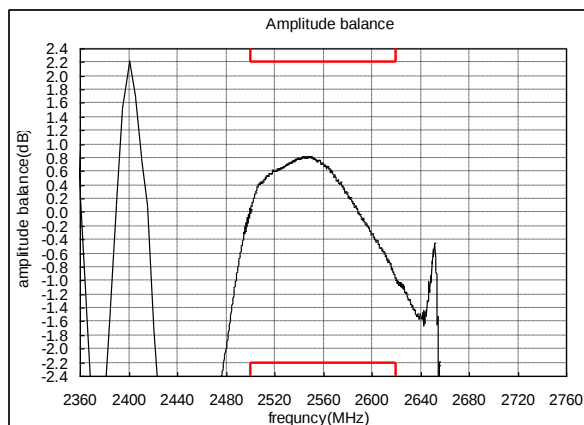
# SAW FILTER FOR WiMAX<sup>®</sup>(2.5G)

Murata part number : SAFEA2G56FA0F00

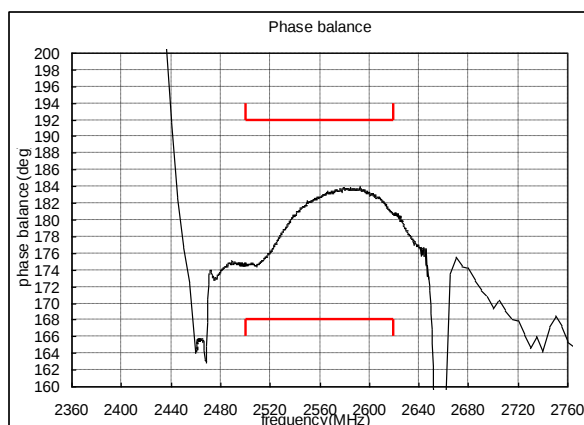
## Frequency Performance



## Amplitude balance



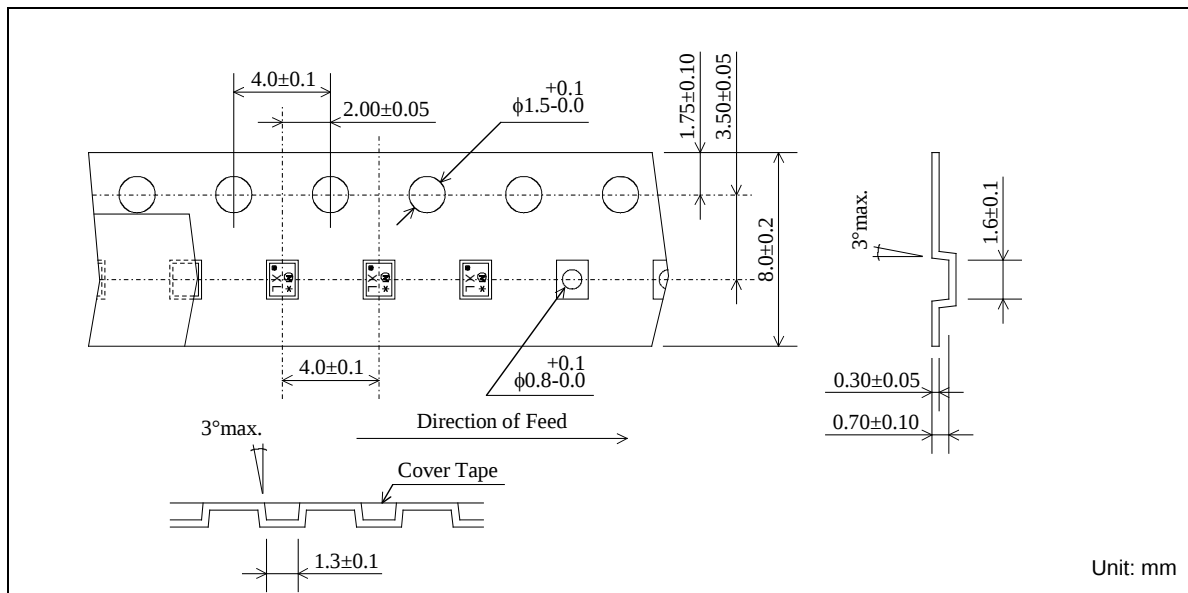
## Phase balance



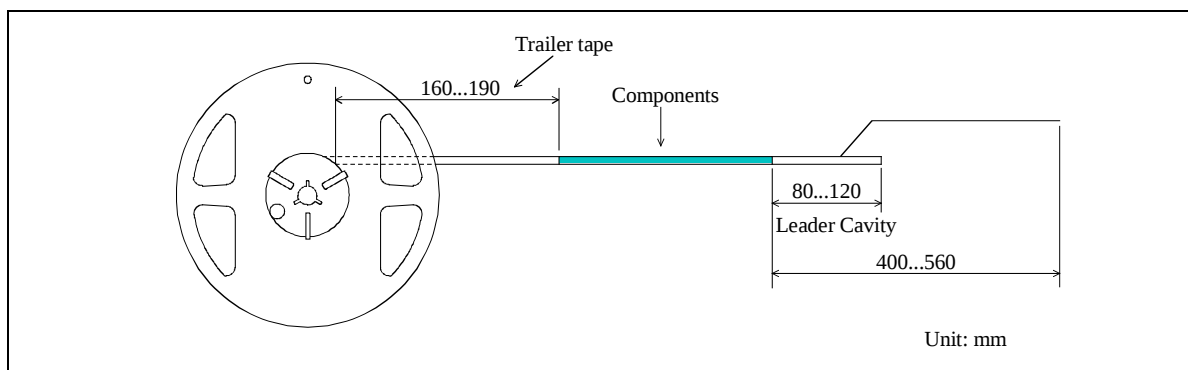
# SAW FILTER FOR WiMAX<sup>®</sup> (2.5G)

Murata part number : SAFEA2G56FA0F00

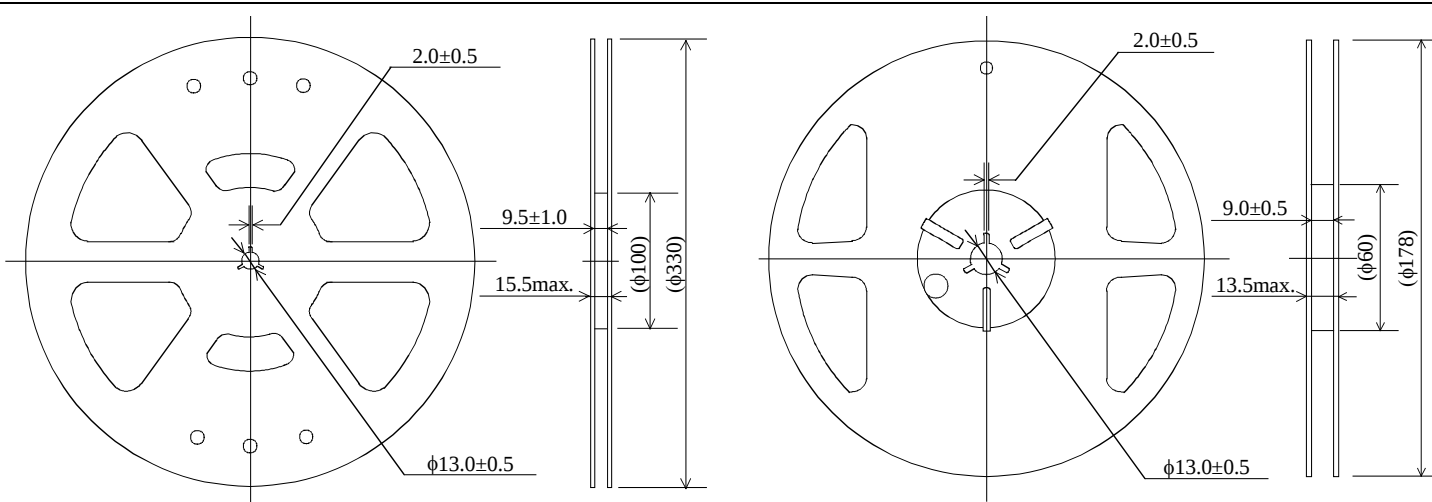
## Dimensions of Carrier Tape



## Dimensions of Tape



## Dimensions of Reel



SAFEA2G56FA0F00R00 ... 10000pcs/reel

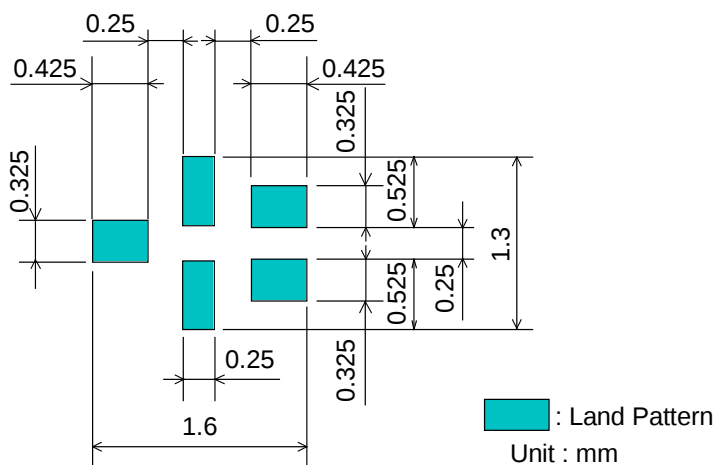
SAFEA2G56FA0F00R15 ... 5000pcs/reel

# SAW FILTER FOR WiMAX<sup>®</sup> (2.5G)

Murata part number : SAFEA2G56FA0F00

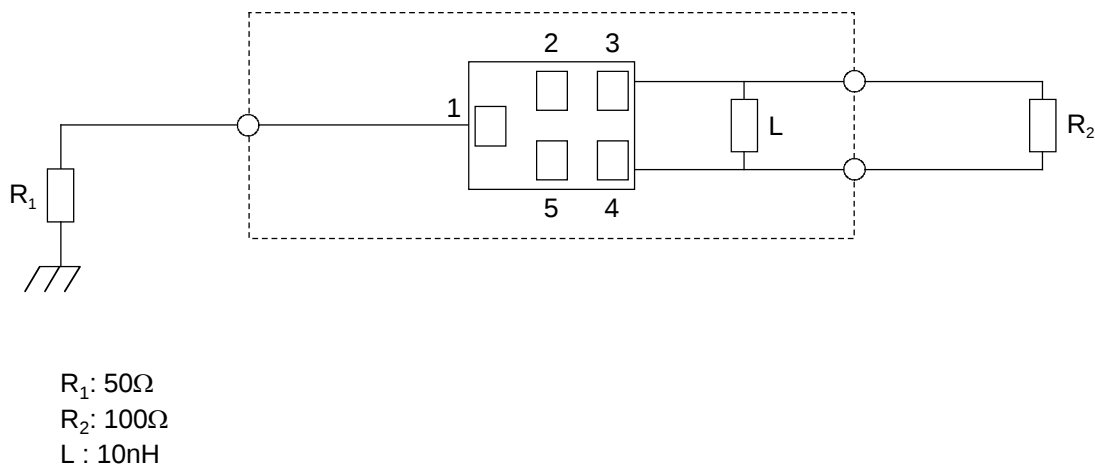
## Recommended Land Pattern

Top View



## Test Circuit

Bottom View



# SAW FILTER FOR WiMAX<sup>®</sup> (2.5G)

Murata part number : SAFEA2G56FA0F00

## ■ RoHS Compliance

This component is compliant with RoHS directive.

This component was always RoHS compliant from the first date of manufacture.

### • Caution - Limitation of Applications

This product is intended for the following applications only; however, please do not use this product in these applications where defects might directly cause damage to a third party's life, body or property.

- a. Mobile Telephone
- b. Cordless phone (except for Automotive use)
- c. PC (Including Notebook PC, Netbook PC, Tablet)
- d. Game
- e. Camera (except for Business/security use)
- f. Set Top Box
- g. Electronic dictionary
- h. Digital audio equipment

• This catalog is for reference only and not an official product specification document, therefore, please review and approve our official product specification before ordering this product.