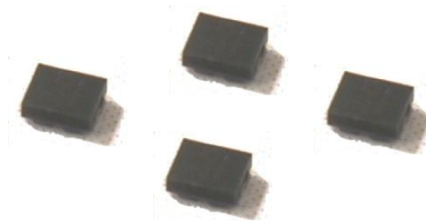




# Data Sheet of SAW Components

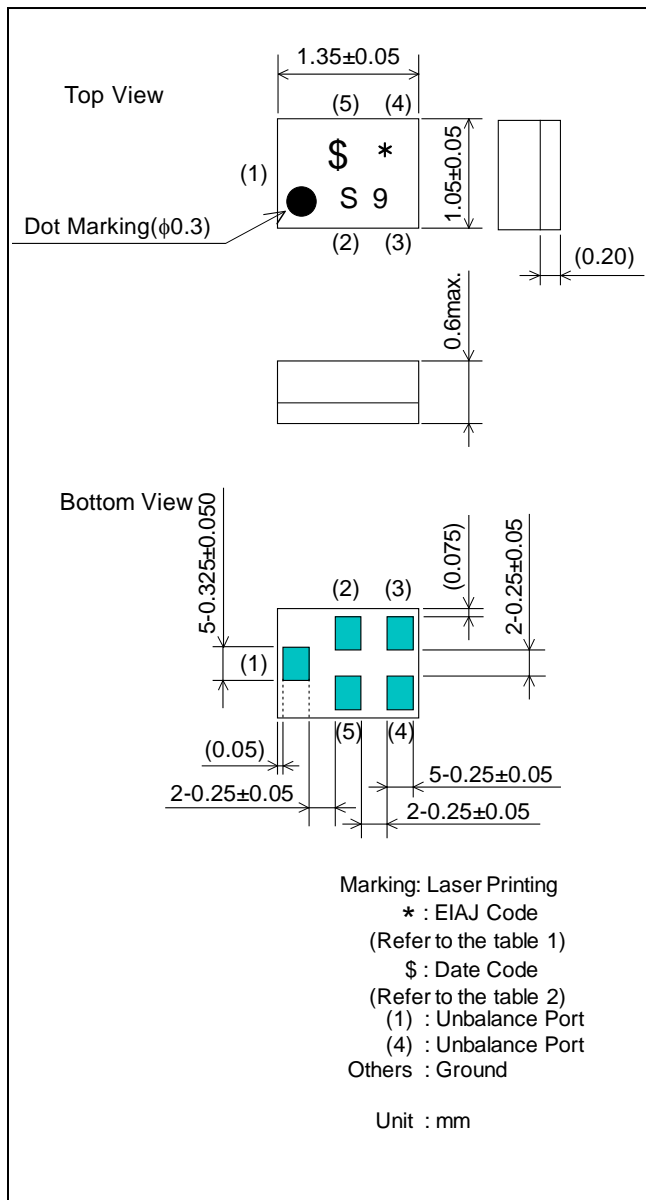


Note : Murata SAW Component is applicable for Cellular /Cordless phone (Terminal) relevant market only.  
Please also read caution at the end of this document.

# SAW FILTER FOR Band3 Tx

Murata part number : SAFEB1G74AA0F00

## Package Dimensions



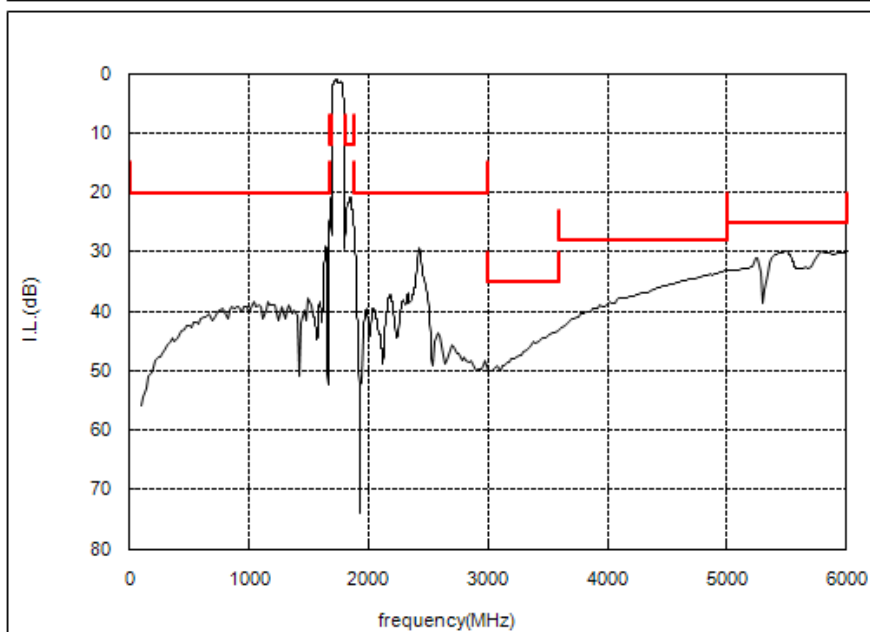
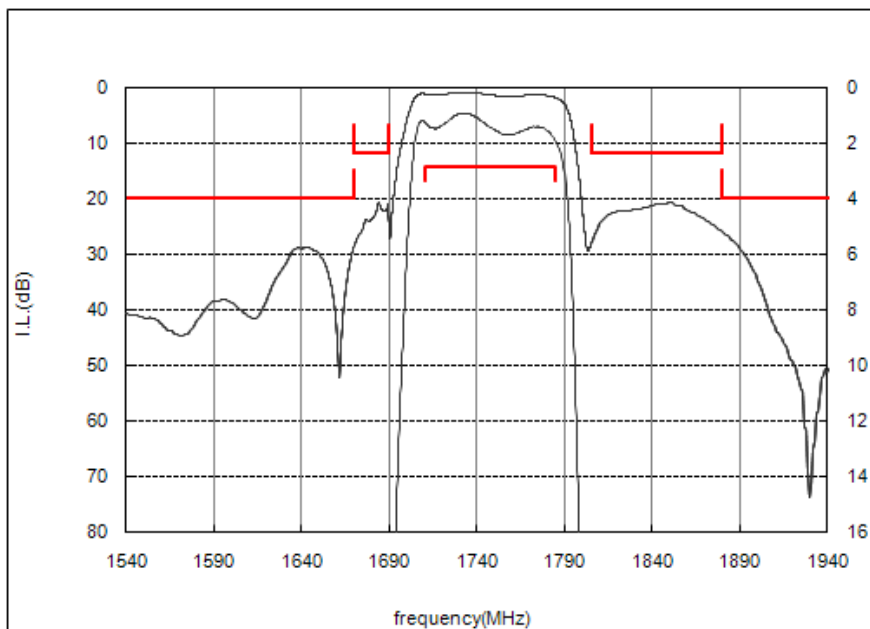
## Specification

| Item   | Specification             |             |        |
|--|---------------------------|-------------|--------|
|  | -30 to 85°C               | 25±2°C      | typ.   |
| Nominal Center Frequency(fc)                   | 1747.5MHz                 |             |        |
| Insertion Loss<br>(1710 to 1785MHz)            | 2.9 dB max.               | 2.3 dB max. | 2.0 dB |
| Absolute Attenuation                           |                           |             |        |
| 1) 0.1 to 1670 MHz                             | 20 dB min.                | 20 dB min.  | 29 dB  |
| 2) 1670 to 1690 MHz                            | 12 dB min.                | 14 dB min.  | 21 dB  |
| 3) 1805 to 1880 MHz                            | 12 dB min.                | 14 dB min.  | 21 dB  |
| 4) 1880 to 3000 MHz                            | 20 dB min.                | 20 dB min.  | 26 dB  |
| 5) 3000 to 3600 MHz                            | 35 dB min.                | 35 dB min.  | 43 dB  |
| 6) 3600 to 5000 MHz                            | 28 dB min.                | 28 dB min.  | 33 dB  |
| 7) 5000 to 6000 MHz                            | 25 dB min.                | 25 dB min.  | 30 dB  |
| Ripple Deviation<br>(1710 to 1785MHz)          | 2.2 dB max.               | 1.4 dB max. | 1.2dB  |
| VSWR<br>(1710 to 1785MHz)                      | 2.4 max.                  | 2.3 max.    | 2.1    |
| Unbalance Port Matching Impedance<br>(nominal) | 50Ω                       |             |        |
| Input Signal Level                             | 20mW (+13dBm), 2000 hours |             |        |

# SAW FILTER FOR Band3 Tx

Murata part number : SAFEB1G74AA0F00

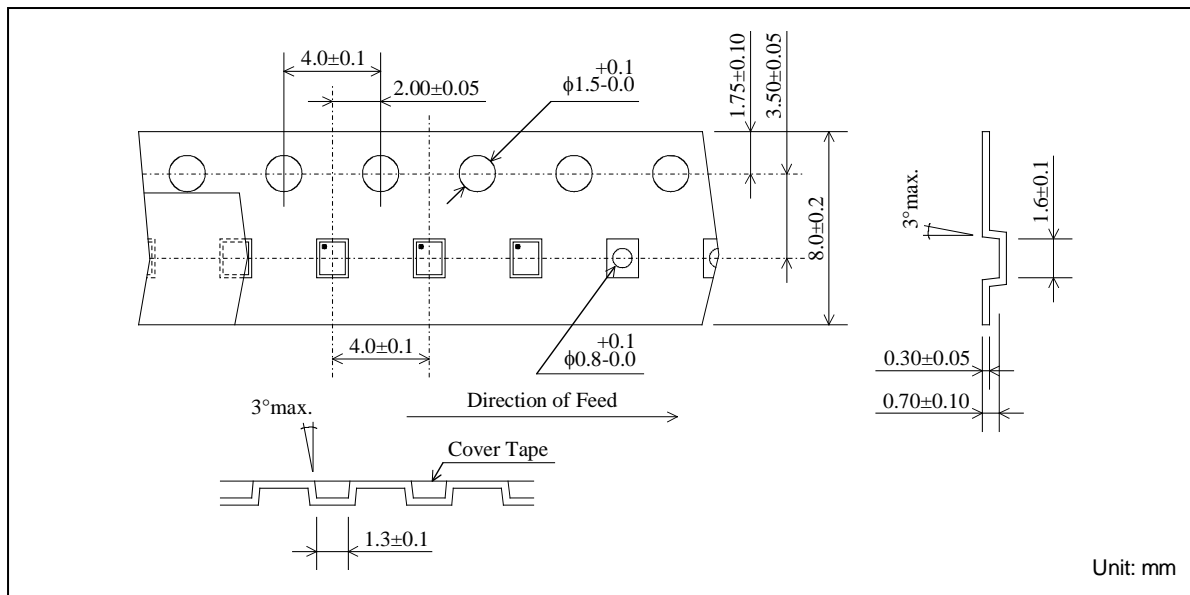
## Frequency Performance



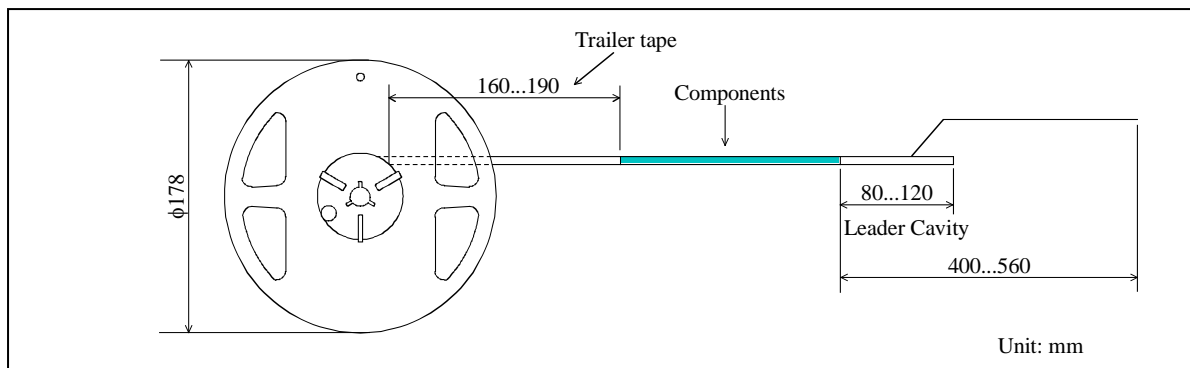
# SAW FILTER FOR Band3 Tx

Murata part number : SAFEB1G74AA0F00

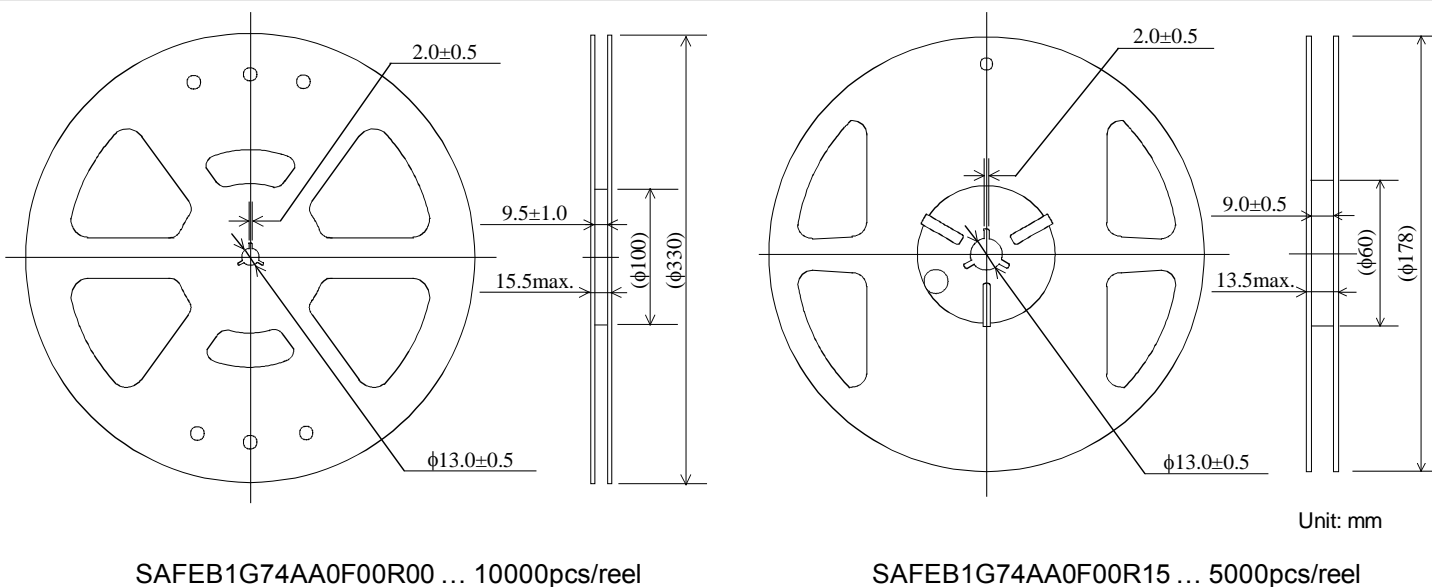
## Dimensions of Carrier Tape



## Dimensions of Tape



## Dimensions of Reel



SAFEB1G74AA0F00R00 ... 10000pcs/reel

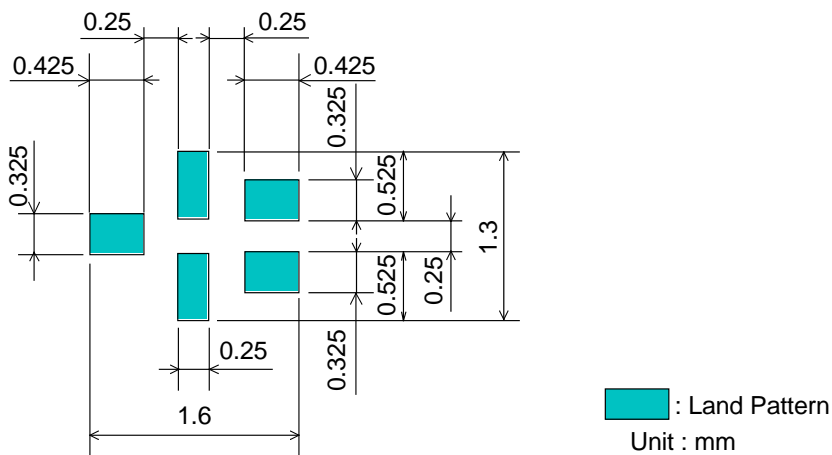
SAFEB1G74AA0F00R15 ... 5000pcs/reel

# SAW FILTER FOR Band3 Tx

Murata part number : SAFEB1G74AA0F00

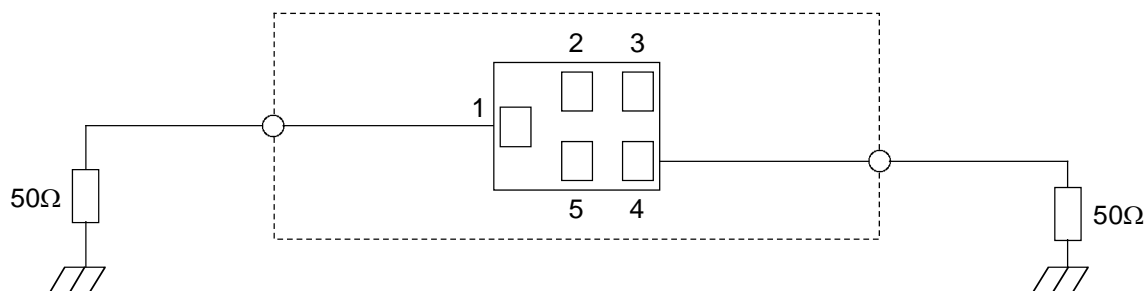
## Recommended Land Pattern

Top View



## Test Circuit

Bottom View



# SAW FILTER FOR Band3 Tx

Murata part number : SAFEB1G74AA0F00

## 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.

## Marking code

Table 1 ★ : EIAJ Code

This rule of code is applied repeatedly every four year.

|                      |      |      |      |      |     |      |      |      |      |      |      |      |
|----------------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 2009<br>2013<br>2017 | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
|                      | A    | B    | C    | D    | E   | F    | G    | H    | J    | K    | L    | M    |
| 2010<br>2014<br>2018 | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
|                      | N    | P    | Q    | R    | S   | T    | U    | V    | W    | X    | Y    | Z    |
| 2011<br>2015<br>2019 | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
|                      | a    | b    | c̄   | d    | e   | f    | g    | h    | j    | k    | l    | m    |
| 2012<br>2016<br>2020 | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
|                      | n    | p    | q    | r    | s   | t    | u    | v    | w    | x    | y    | z    |

Table 2 \$: Date Code

|      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|
| date | 1st  | 2nd  | 3rd  | 4th  | 5th  | 6th  | 7th  | 8th  | 9th  | 10th |      |
| code | A    | B    | C    | D    | E    | F    | G    | H    | J    | K    |      |
| date | 11th | 12th | 13th | 14th | 15th | 16th | 17th | 18th | 19th | 20th |      |
| code | L    | M    | N    | P    | Q    | R    | S    | T    | U    | V    |      |
| date | 21st | 22nd | 23rd | 24th | 25th | 26th | 27th | 28th | 29th | 30th | 31st |
| code | W    | X    | Y    | Z    | a    | b    | c̄   | d    | e    | f    | g    |

# SAW FILTER FOR Band3 Tx

## Murata part number : SAFEB1G74AA0F00

### ■Important notice

PLEASE READ THIS NOTICE BEFORE USING OUR PRODUCTS.

Please make sure that your product has been evaluated and confirmed from the aspect of the fitness for the specifications of our product when our product is mounted to your product.

All the items and parameters in this product specification/datasheet/catalog have been prescribed on the premise that our product is used for the purpose, under the condition and in the environment specified in this specification. You are requested not to use our product deviating from the condition and the environment specified in this specification.

Please note that the only warranty that we provide regarding the products is its conformance to the specifications provided herein. Accordingly, we shall not be responsible for any defects in products or equipment incorporating such products, which are caused under the conditions other than those specified in this specification.

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The product shall not be used in any application listed below which requires especially high reliability for the prevention of such defect as may directly cause damage to the third party's life, body or property. You acknowledge and agree that, if you use our products in such applications, we will not be responsible for any failure to meet such requirements. Furthermore, YOU AGREE TO INDEMNIFY AND DEFEND US AND OUR AFFILIATES AGAINST ALL CLAIMS, DAMAGES, COSTS, AND EXPENSES THAT MAY BE INCURRED, INCLUDING WITHOUT LIMITATION, ATTORNEY FEES AND COSTS, DUE TO THE USE OF OUR PRODUCTS IN SUCH APPLICATIONS.

- Aircraft equipment.
- Aerospace equipment
- Undersea equipment.
- Power plant control equipment - Medical equipment.
- Transportation equipment (vehicles, trains, ships, elevator, etc.).
- Traffic signal equipment.
- Disaster prevention / crime prevention equipment.
- Burning / explosion control equipment
- Application of similar complexity and/ or reliability requirements to the applications listed in the above.

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Please do not use our products, our technical information and other data provided by us for the purpose of developing of mass-destruction weapons and the purpose of military use.

Moreover, you must comply with "foreign exchange and foreign trade law", the "U.S. export administration regulations", etc.

Please note that we may discontinue the manufacture of our products, due to reasons such as end of supply of materials and/or components from our suppliers.

# **SAW FILTER FOR Band3 Tx**

## **Murata part number : SAFEB1G74AA0F00**

Customer acknowledges that Murata will, if requested by you, conduct a failure analysis for defect or alleged defect of Products only at the level required for consumer grade Products, and thus such analysis may not always be available or be in accordance with your request (for example, in cases where the defect was caused by components in Products supplied to Murata from a third party).

The product shall not be used in any other application/model than that of claimed to Murata.

Customer acknowledges that engineering samples may deviate from specifications and may contain defects due to their development status.

We reject any liability or product warranty for engineering samples.

In particular we disclaim liability for damages caused by

- the use of the engineering sample other than for evaluation purposes, particularly the installation or integration in the product to be sold by you,

- deviation or lapse in function of engineering sample,

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