

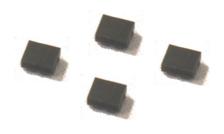
Datasheet of SAW Device

SAW Single Filter for Band41 / Unbalanced / 5pin /1109

Murata PN: SAFFB2G60AA1F0A

Feature

- > Band41 Rx Middle Side
- > 2550-2655MHz



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

Please also read caution at the end of this document.



| Revision Number | Date | Description |
|------------------------|-------------|-------------------------------|
| SAFFB2G60AA1F0A_rev. A | Jul-17-2014 | ■ Initial Release |
| SAFFB2G60AA1F0A_rev. B | Aug-12-2014 | ■ Updated for MP |
| SAFFB2G60AA1F0A_rev. C | Sep-25-2015 | ■ Updated Wave form |
| SAFFB2G60AA1F0A_rev. D | Sep-08-2016 | ■ Updated General Information |
| SAFFB2G60AA1F0A_rev. E | Aug-03-2017 | ■ Updated General Information |
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| | | |

Operating temperature : -20 to +85 deg.C
 Storage temperature : -40 to +85 deg.C
 Input Power : +10 dBm 8000 h
 D.C. Volatage between the terminals : 3V (25+/-2 deg.C)

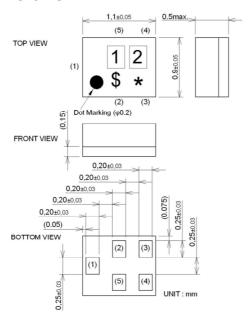
Minimum Resistance between the terminals : 10M ohm
 RoHS compliance : Yes
 ESD (ElectroStatic Discharge) sensitive device



Package Dimensions & Recommended Land Pattern

unit: mm

Dimensions



Marking: Laser Printing

*: Month code(Refer to the table A)

\$: Date code(Refer to the table B)

1:4

2:6

Terminal Number

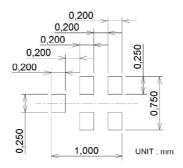
(1): Unbalanced port

(4): Unbalanced port

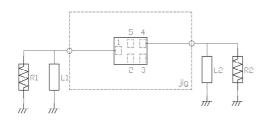
Others: GND

Notice) Please refer to Measurement Circuit for Port information in detail.

Land Pattern



Measurement Circuit (Top Thru View)



| R1 : 50 ohm | L1 :7nH(Ideal inductor) |
|-------------|-------------------------|
| R2 : 50 ohm | L2 :7nH(Ideal inductor) |
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Electrical Characteristic < Single Filter >

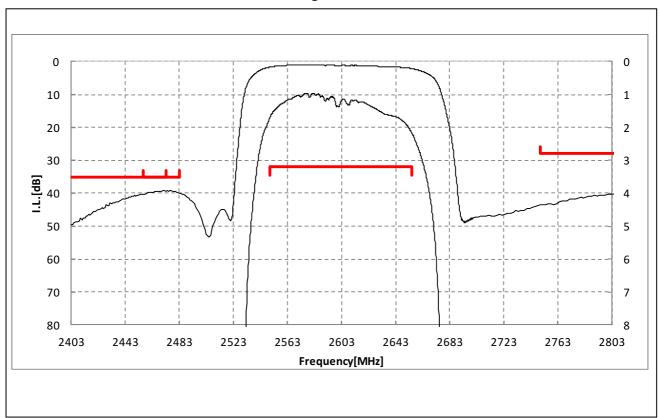
| <u>Electrical Cha</u> | ltem | | | | Characteristics (-20 to +85 deg.C) | | | Unit | Note |
|-----------------------|-------|----|-------|-----|---------------------------------------|--------|------|------|-----------------|
| | | | | | min. | typ.* | max. | | |
| Center Frequency | | | | | | 2602.5 | | MHz | |
| Insertion Loss | 2550. | to | 2655. | MHz | | 2.1 | 3.2 | dB | |
| | 2550. | to | 2655. | MHz | | 2.1 | 2.7 | dB | +23 to +27deg.C |
| Ripple Deviation | 2550. | to | 2655. | MHz | | 1.2 | 2.3 | dB | |
| | 2550. | to | 2655. | MHz | | 1.2 | 1.8 | dB | +23 to +27deg.C |
| VSWR | 2550. | to | 2655. | MHz | | 1.4 | 2.0 | | |
| | 2550. | to | 2655. | MHz | | 1.4 | 2.0 | | |
| Absolute Attenuation | 10. | to | 915. | MHz | 35 | 41 | | dB | |
| | 915. | to | 1560. | MHz | 30 | 32 | | dB | |
| | 1560. | to | 1610. | MHz | 30 | 32 | | dB | |
| | 1610. | to | 2170. | MHz | 30 | 32 | | dB | |
| | 2170. | to | 2400. | MHz | 30 | 35 | | dB | |
| | 2400. | to | 2473. | MHz | 35 | 39 | | dB | |
| | 2456. | to | 2483. | MHz | 35 | 39 | | dB | |
| | 2750. | to | 4900. | MHz | 28 | 38 | | dB | |
| | 4900. | to | 6000. | MHz | 25 | 35 | | dB | |
| | 6000. | to | 8000. | MHz | 23 | 31 | | dB | |
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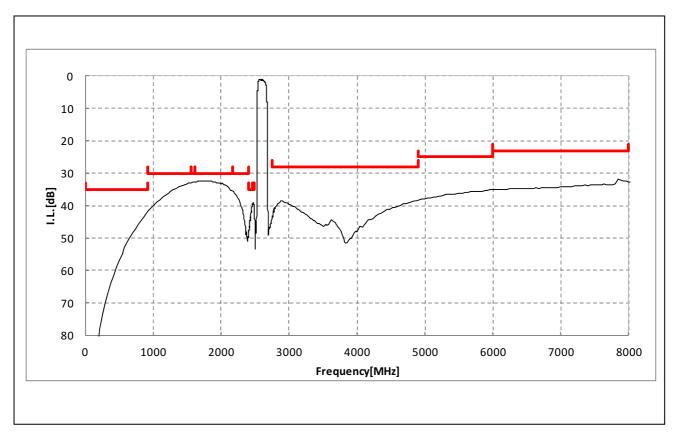
^{*} Typical value at 25±2deg.C



Electrical Characteristic

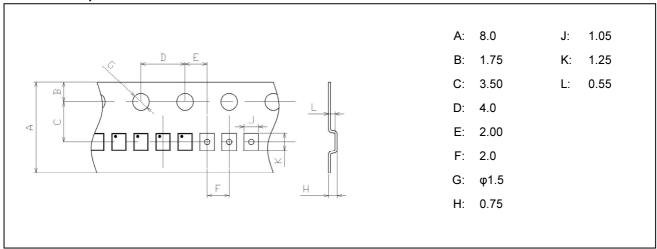
< Single Filter >



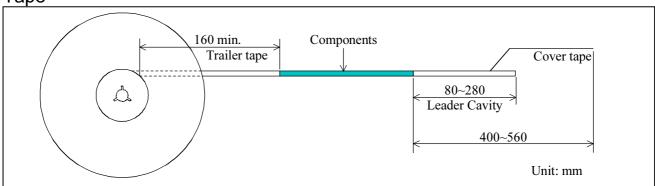


Dimensions of Tape & Reel unit: mm

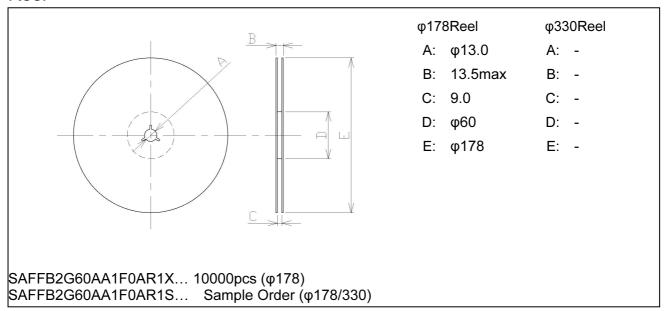
Carrier Tape



Tape



Reel





Marking Code

| Τ | ab | le | A: | Mo | ontl | h Cc | ode |
|---|----|----|----|----|------|------|-----|
|---|----|----|----|----|------|------|-----|

| 2013 | Jan. | Feb. | Mar. | Apr. | May. | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
|--------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2017 2021 | 4 | В | С | D | Е | F | G | Ι | ٦ | K | ١ | М |
| 2014 | Jan. | Feb. | Mar. | Apr. | May. | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
| 2018 2022 | N | Р | Ø | R | S | Т | U | ٧ | W | Х | Y | Z |
| 2015 | Jan. | Feb. | Mar. | Apr. | May. | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
| 2019 2023 | а | Ф | 01 | d | е | f | g | h | j | k | l | m |
| 2016 | Jan. | Feb. | Mar. | Apr. | May. | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
| 2020 2024 | r | P | G | r | 4 | t | a | ٦ | 3 | æ | y | 3 |

Table B: Date Code

| date code | 21st W | 22nd X | 23rd | 24th | 25th a | 26th b | 27th | 28th | 29th e | 30th | 31st g |
|--------------|-----------|-----------|------|------|-----------|-----------|------|------|-----------|------|------------------|
| code | L | М | N | Р | Q | R | S | T | U | V | |
| date | 11th | 12th | 13th | 14th | 15th | 16th | 17th | 18th | 19th | 20th | |
| code | Α | В | С | D | Е | F | G | Н | J | K | |
| date | 1st | 2nd | 3rd | 4th | 5th | 6th | 7th | 8th | 9th | 10th | |

Important Notice (1/2)

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.



Important Notice (2/2)

- 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.

We expressly prohibit you from analyzing, breaking, Reverse-Engineering, remodeling altering, and reproducing our product. Our product cannot be used for the product which is prohibited from being manufactured, used, and sold by the regulations and laws in the world.

Please do not use the product in molding condition.

This product is ESD (ElectroStatic Discharge) sensitive device.

When you install or measure this, you should be careful not to add antistatic electricity or high voltage. Please be advised that you had better check anti serge voltage.

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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.

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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.

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In particular we disclaim liability for damages caused by

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 - ·deviation or lapse in function of engineering sample,
 - ·improper use of engineering samples.

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