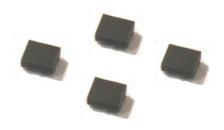


Datasheet of SAW Device

SAW Single Filter for Band32 / Unbalanced / 5pin /1109

Murata PN: SAFFB1G47AA0F0A



Note: This Murata SAW Component is Consumer grade product and applicable for Cellular phone or similar end devices.

Please also read Important Notice at the end of this document.

Revision G



Operating temperature
 Storage temperature
 Input Power
 D.C. Volatage between the terminals
 -20 to +85 deg.C
 +40 to +85 deg.C
 +13 dBm 2000 h
 3V (25+/-2 deg.C)

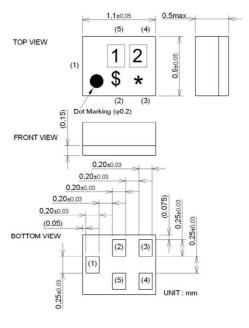
Minimum Resistance between the terminals : 10M ohm
 RoHS compliance : Yes
 ESD (ElectroStatic Discharge) sensitive device



Package Dimensions & Recommended Land Pattern

unit: mm

Dimensions



Marking: Laser Printing

*: Month code

\$: Date code

1:2

2:8

Terminal Number

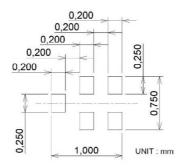
(1): Unbalanced port

(4): Unbalanced port

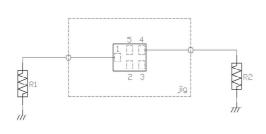
Others: GND

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

Land Pattern



Measurement Circuit (Top Thru View)



| R1 : 50 ohm | |
|-------------|--|
| R2 : 50 ohm | |
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Electrical Characteristic < Single Filter >

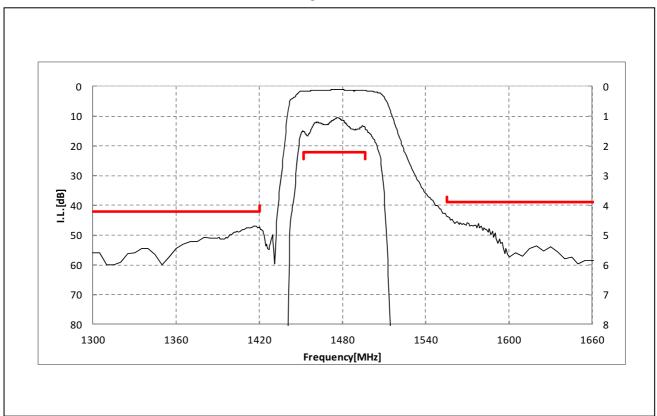
| Electrical Characteristic > Single Filter > | | | | | | | | | | | |
|---|----------|----|--------|-----------------|----------------------|-------|----------|------|----------------------|--|--|
| | | | | Characteristics | | | | | | | |
| | ltem | | | | (-20 to +85 deg.C) | | | Unit | Note | | |
| | | | | | min. | typ.* | max. | | | | |
| Center Frequency | | | | | | 1474 | | MHz | | | |
| Insertion Loss | 1452. | to | 1496. | MHz | | 1.6 | 2.2 | dB | | | |
| | 1452. | to | 1496. | MHz | | 1.6 | 1.9 | dB | +23 to +27deg.C | | |
| Ripple Deviation | 1452. | to | 1496. | MHz | | 0.6 | 1.2 | dB | | | |
| | 1452. | to | 1496. | MHz | | 0.6 | 0.9 | dB | +23 to +27deg.C | | |
| VSWR | 1452. | to | 1496. | MHz | | 1.7 | 2.0 | | ANT. | | |
| | 1452. | to | 1496. | MHz | | 1.7 | 2.0 | | RX | | |
| | 1452. | to | 1496. | MHz | | 1.7 | 1.9 | | +23 to +27deg.C,ANT. | | |
| | 1452. | to | 1496. | MHz | | 1.7 | 1.9 | | +23 to +27deg.C,Rx. | | |
| Absolute Attenuation | 100. | to | 800. | MHz | 44 | 55 | | dB | | | |
| | 814. | to | 849. | MHz | 46 | 55 | | dB | B26 Tx | | |
| | 832. | to | 862. | MHz | 46 | 55 | | dB | B20 Tx | | |
| | 880. | to | 915. | MHz | 46 | 57 | | dB | B8 Tx | | |
| | 1220. | to | 1420. | MHz | 42 | 46 | | dB | | | |
| | 1555. | to | 1710. | MHz | 39 | 43 | | dB | | | |
| | 1710. | to | 1785. | MHz | 46 | 52 | | dB | B3 Tx | | |
| | 1920. | to | 1980. | MHz | 46 | 50 | | dB | B1 Tx | | |
| | 2400. | to | 2500. | MHz | 40 | 43 | | dB | ISM 2.4G | | |
| | 2500. | to | 2570. | MHz | 39 | 43 | | dB | B7 Tx | | |
| | 4356. | to | 4476. | MHz | 30 | 35 | | dB | 3f0 | | |
| | 4900. | to | 5950. | MHz | 30 | 34 | | dB | ISM 5G | | |
| | 6000. | to | 12750. | MHz | 15 | 24 | | dB | | | |
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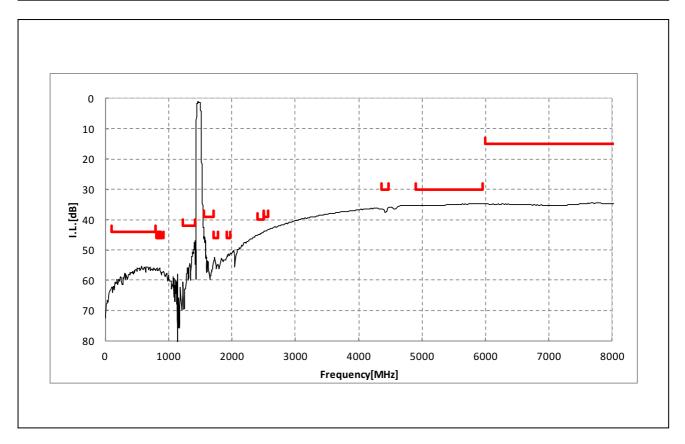
^{*} Typical value at 25±2deg.C



Electrical Characteristic

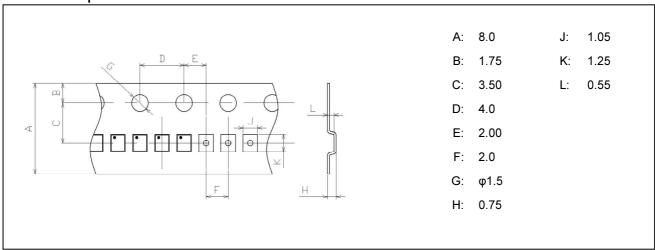
< Single Filter >



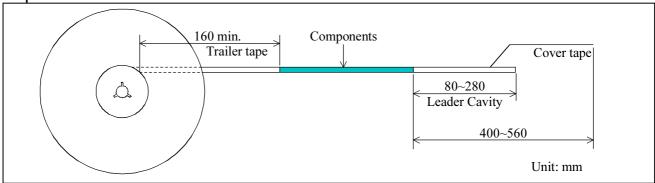


Dimensions of Tape & Reel unit: mm

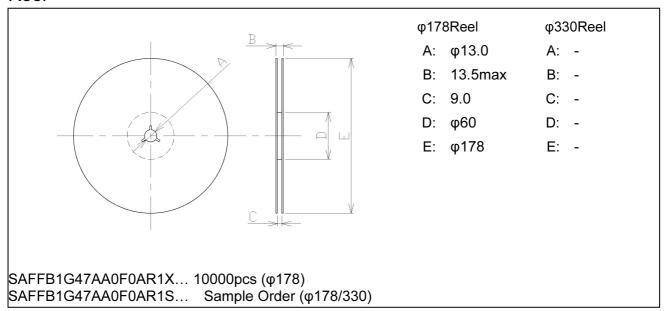
Carrier Tape



Tape



Reel





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 specified in the front page of this product specifications (the "Product" or "Products") 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 Product 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.

WE HEREBY DISCLAIMS ALL OTHER WARRANTIES REGARDING THE PRODUCTS, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, THAT THEY ARE DEFECT-FREE, OR AGAINST INFRINGEMENT OF INTELLECTUAL PROPERTY RIGHTS.

The Product shall not be used for any application which requires especially high reliability or accuracy in order to prevent defect which incurs high possibility of damage to the third party's life, body or property such as the applications listed below as item (a) to (j) (the "Prohibited Application"). You acknowledge and agree that, if you use our Products in the Prohibited Applications, we will not be responsible for any damage caused by such use.

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 THE PROHIBITED APPLICATIONS.

- (a) Aircraft equipment.
- (b) Aerospace equipment
- (c) Undersea equipment.
- (d) Power plant control equipment
- (e) Medical equipment.
- (f) Transportation equipment (vehicles, automotive, trains, ships, etc.).
- (g)Traffic signal equipment.
- (h)Disaster prevention / crime prevention equipment.
- (i) Burning / explosion control equipment
- (j) Application of similar complexity and/ or reliability requirements to the applications listed in the above.

For the avoidance of doubt, the Product is not automotive grade, and will not support such requests for automotive as below, also not support other specific requests for automotive.

- AEC-Q200
- PPAP
- IATF16949, VDA6.3
- Zero Defect program
- Long product life cycle
- Automotive 8D failure analysis and report



Important Notice (2/2)

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.

We do not warrant or represent that any license, either express or implied, is granted under any our patent right, copyright, mask work right, or our other intellectual property right relating to any combination, machine, or process in which our Products or services are used. Information provided by us regarding third-party products or services does not constitute a license from us to use such products or services or a warranty or endorsement thereof. Use of such information may require a license from a third party under the patents or other intellectual property of the third party, or a license from us under our patents or other intellectual property.

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.

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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

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 - deviation or lapse in function of engineering sample,
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