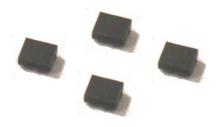


Datasheet of SAW Device

SAW Single Filter

for Band8 / Unbalanced / 5pin /1109

Murata PN: SAFFB942MAN0F0A



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 No. | Date | Description | | | | | | |
|------------------------|-------------|-------------------------------|--|--|--|--|--|--|
| SAFFB942MAN0F0A_rev. A | Dec-13-2012 | ■ Initial Release | | | | | | |
| SAFFB942MAN0F0A_rev. B | May-15-2017 | ■ Updated General Information | | | | | | |
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Operating temperature
 Storage temperature
 Input Power
 D.C. Volatage between the terminals
 -30 to +85 deg.C
 -40 to +85 deg.C
 +15 dBm 2000 h
 3V (25+/-2 deg.C)

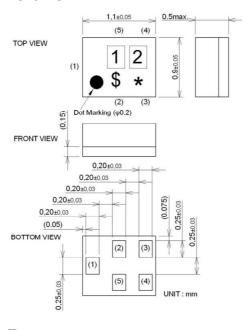
Minimum Resistance between the terminals : 10M ohm
 RoHS compliance : Yes
 ESD (ElectroStatic Discharge) sensitive device



Package Dimensions & Recommended Land Pattern

unit: mm

Dimensions



Marking: Laser Printing

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

1 : P

2:5

Terminal Number

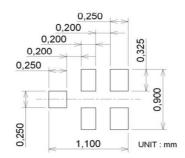
(1): Unbalanced port

(4): Unbalanced port

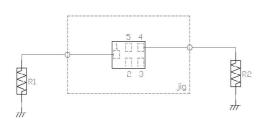
Others: GND

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

Land Pattern



Measurement Circuit (Top Thru View)



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

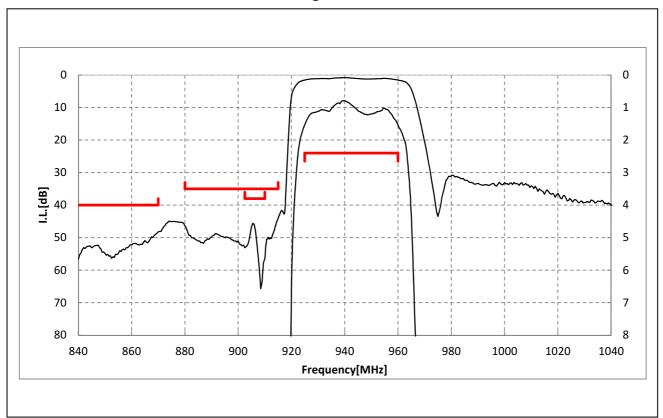
| Electrical Cha | liaciens | Suc | > 311 | I IIIC | 71 / | | | | | |
|-----------------------|----------|-----|-----------------|--------|-----------------|-------|-------|-------------------|---------------------|--|
| | | | | | Characteristics | | | | | |
| | ltem | tem | | | (-30 to +85 d | | eg.C) | Unit | Note | |
| | ICITI | | | | min. | typ.* | | | 1.5.5 | |
| Contan Francisco | Ι | | | | 1111111. | | max. | MHz | | |
| Center Frequency | 007.4 | 1 | 057.0 | N 41 1 | | 942.5 | 4.0 | dB _{INT} | | |
| Insertion Loss | 927.4 | to | 957.6 | MHz | | 1.3 | 1.8 | | 100 1 107 1 0 | |
| | 927.4 | to | 957.6 | MHz | | 1.3 | 1.6 | dB _{INT} | +23 to +27deg.C | |
| | 925. | to | 960. | MHz | | 1.6 | 2.4 | dB | | |
| | 925. | to | 960. | MHz | | 1.6 | 2.0 | dB | +23 to +27deg.C | |
| Ripple Deviation | 925. | to | 960. | MHz | | 0.8 | 1.8 | dB | | |
| | 925. | to | 960. | MHz | | 0.8 | 1.5 | dB | +23 to +27deg.C | |
| | 927.4 | to | 957.6 | MHz | | 0.4 | 1.3 | dB _{INT} | Ŭ | |
| | 927.4 | to | 957.6 | MHz | | 0.4 | 0.9 | dB _{INT} | +23 to +27deg.C | |
| VSWR | 925. | to | 960. | MHz | | 1.7 | 2.1 | | | |
| 1,2,,,, | 925. | to | 960. | MHz | | 1.7 | 2.0 | | +23 to +27deg.C | |
| Absolute Attenuation | 1850. | to | 1920. | MHz | 38 | 45 | | dB | - 20 to - 21 dog. 0 | |
| Absolute Atteridation | 2775. | | 2880. | MHz | 31 | 37 | | dB | | |
| | 3700. | to | | | 30 | 34 | | dB | | |
| | | to | 3840. | MHz | | | | | | |
| | 4625. | to | 4800. | MHz | 28 | 33 | | dB | | |
| | 5550. | to | 5760. | MHz | 28 | 33 | | dB | | |
| | 6475. | to | 6720. | MHz | 28 | 32 | | dB | | |
| | 7400. | to | 7680. | MHz | 25 | 30 | | dB | | |
| | 8325. | to | 8640. | MHz | 25 | 31 | | dB | | |
| 1 | 9250. | to | 9600. | MHz | 25 | 32 | | dB | | |
| | 10175. | to | 10560. | MHz | 22 | 26 | | dB | | |
| | 11100. | to | 11520. | MHz | 22 | 28 | | dB | | |
| | 12025. | to | 12480. | MHz | 26 | 33 | | dB | | |
| | 880. | to | 915. | MHz | 35 | 43 | | dB | | |
| | 880. | to | 915. | MHz | 38 | 43 | | dB | +23 to +27deg.C | |
| | 2400. | | 2500. | MHz | 35 | 39 | | dB | 123 to 127deg.0 | |
| | | to | | | | | | | | |
| | 5725. | to | 5875. | MHz | 28 | 33 | | dB | | |
| | 1805. | to | 1875. | MHz | 39 | 46 | | dB | | |
| | 45. | to | 45. | MHz | 40 | 61 | | dB | | |
| | 2685. | to | 2790. | MHz | 31 | 35 | | dB | | |
| | 835. | to | 870. | MHz | 40 | 48 | | dB | | |
| | 902.5 | to | 910. | MHz | 38 | 44 | | dB | | |
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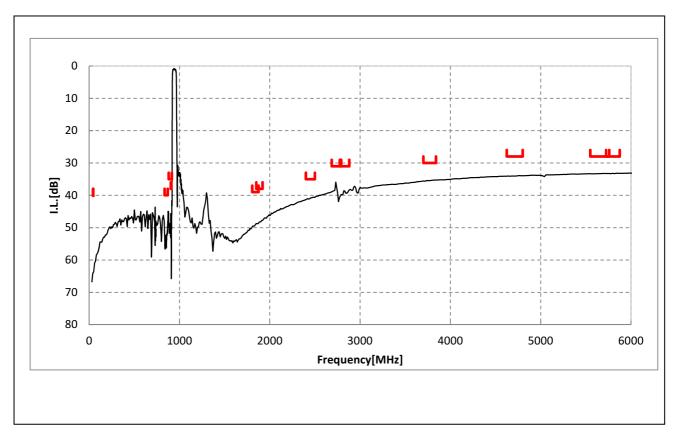
^{*} Typical value at 25±2deg.C



Electrical Characteristic

< Single Filter >

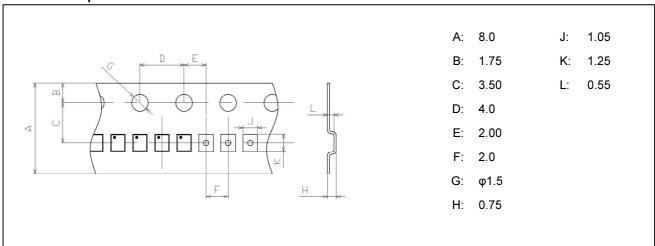




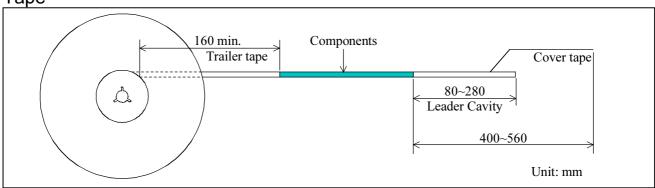


Dimensions of Tape & Reel unit: mm

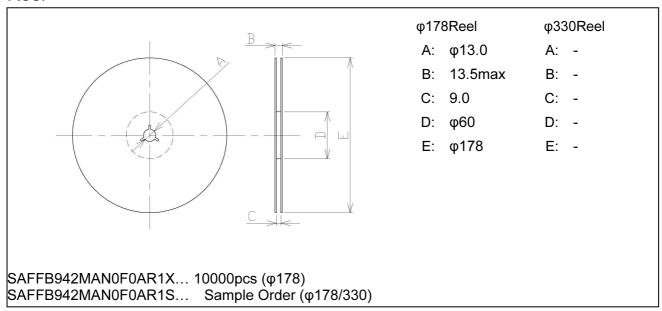
Carrier Tape



Tape



Reel





Marking Code

Table A: Month Code

| 2013 | Jan. | Feb. | Mar. | Apr. | May. | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
|----------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2017 2021 | Α | В | С | D | E | F | G | Н | J | K | L | М |
| 2014 | Jan. | Feb. | Mar. | Apr. | May. | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
| 2018 2022 | N | Р | Q | R | S | Т | U | V | W | Х | Y | Z |
| 2015 2019 2023 | Jan. | Feb. | Mar. | Apr. | May. | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
| | а | b | ē | d | е | f | g | h | j | k | Q | m |
| 2016 2020 2024 | Jan. | Feb. | Mar. | Apr. | May. | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
| | n | P | 8 | r | d | t | u | U | ω | æ | y | 8 |

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 | Т | 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 | |

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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.

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

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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,
 - ·improper use of engineering samples.

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