

Datasheet of SAW Device

SAW Single Filter

for Band28B / Unbalanced / 5pin /1109

Murata PN: SAFFB788MAA0F0A

Feature

- Small Package
- ➢ Low Insertion Loss
- ➢ High Tx Rejection



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

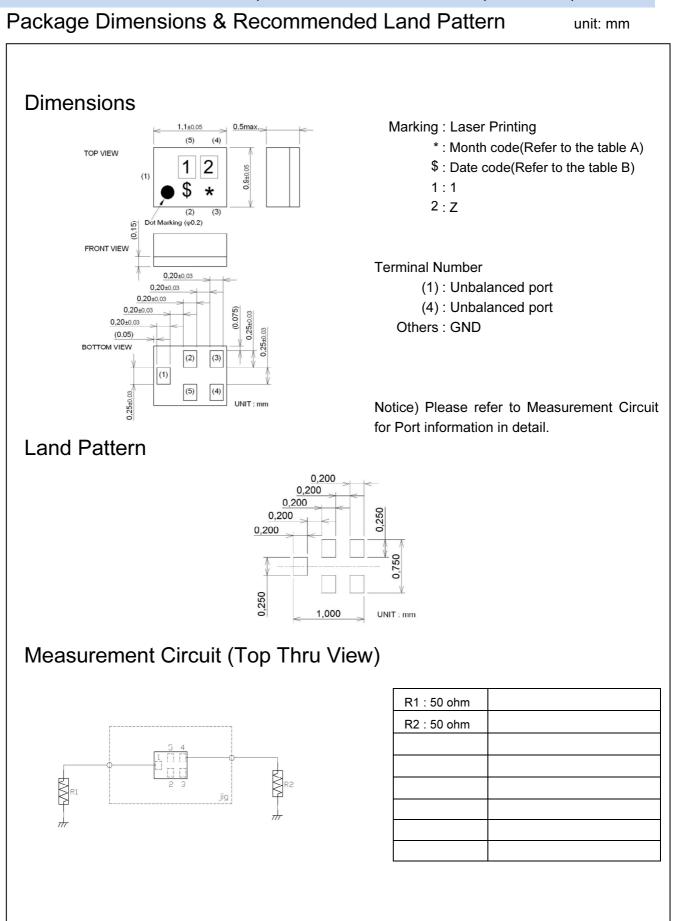


| Revision Number | Date | Description | | | | | |
|------------------------|-------------|-----------------------------|--|--|--|--|--|
| SAFFB788MAA0F0A_rev. A | Oct-07-2013 | ∎ Initial Release | | | | | |
| SAFFB788MAA0F0A_rev. B | Feb-14-2014 | ■ Updated for MP | | | | | |
| SAFFB788MAA0F0A_rev. C | Jul-29-2016 | Updated General Information | | | | | |
| SAFFB788MAA0F0A_rev. D | Aug-31-2017 | Updated General Information | | | | | |
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| Operating temperature | : -20 to +85 deg.C |
|-------------------------------------------|--------------------|
|-------------------------------------------|--------------------|

- Storage temperature : -40 to +85 deg.C
- Input Power
- : +15 dBm 2000 h
- D.C. Volatage between the terminals : 3V (25+/-2 deg.C)
- Minimum Resistance between the terminals : 10M ohm : Yes
- RoHS compliance
- ESD (ElectroStatic Discharge) sensitive device







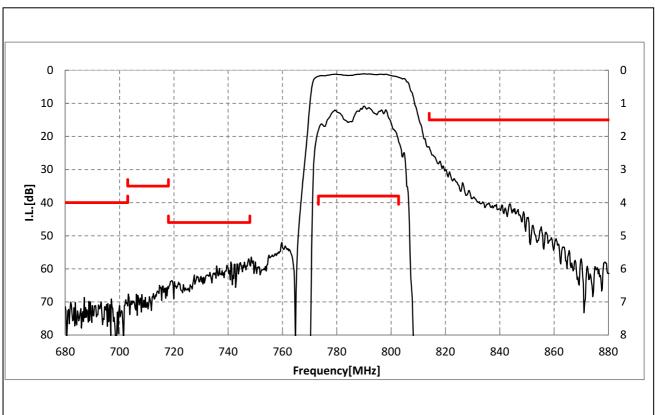
Electrical Characteristic < Single Filter >

| | | <u> </u> | ingi | | | | | |
|----------------------|-----------|----------|---------|--------------------|-------|------|-------------------|-----------------------------|
| | | | racteri | SUCS | | | | |
| | ltem | | | (-20 to +85 deg.C) | | Unit | Note | |
| | | | | min. | typ.* | max. | | |
| Center Frequency | | | | | 788 | | MHz | |
| Insertion Loss | 773.25 to | 802.75 | | | 2.1 | 3.8 | dB | |
| | 773.25 to | 802.75 | MHz | | 2.1 | 2.6 | dB | +23 to +27deg.C |
| | 775.5 to | 800.5 | MHz | | 1.7 | 2.4 | dB _{INT} | Any 4.5MHz |
| | 775.5 to | 800.5 | MHz | | 1.7 | 2.0 | dB _{INT} | +23 to +27deg.C, Any 4.5MHz |
| Ripple Deviation | 773.25 to | 802.75 | MHz | | 1.1 | 3.0 | dB | |
| | 773.25 to | 802.75 | | | 1.1 | 1.5 | dB | +23 to +27deg.C |
| VSWR | 773.25 to | 802.75 | | | 1.9 | 2.3 | | |
| | 773.25 to | 802.75 | | | 1.9 | 2.2 | | +23 to +27deg.C |
| Absolute Attenuation | 10. to | 703. | MHz | 40 | 61 | | dB | |
| | 703. to | 718. | MHz | 35 | 63 | | dB | B28-A TX |
| | 718. to | 748. | MHz | 46 | 57 | | dB | B28-B TX |
| | 814. to | 915. | MHz | 15 | 23 | | dB | B5/8 TX |
| | 814. to | 915. | MHz | 20 | 23 | | dB | +23 to +27deg.C B5/8 TX |
| | | 1606. | MHz | 40 | 49 | | dB | 2f |
| | | 1785. | | 40 | 49 | | dB | B3 TX |
| | | | MHz | 40 | 40 | | | |
| | 1850. to | 1915. | MHz | - | | | dB | B25 TX |
| | 1920. to | 2025. | MHz | 40 | 44 | | dB | B1/34 tX |
| | 2319. to | 2409. | MHz | 35 | 42 | | dB | 3f |
| | 2400. to | 2500. | MHz | 35 | 41 | | dB | ISM2.4 |
| | 4900. to | 5950. | MHz | 30 | 37 | | dB | ISM 5G |
| | 6957. to | 7227. | MHz | 30 | 42 | | dB | 9f |
| | 7730. to | 8030. | MHz | 25 | 43 | | dB | 10f |
| | 8503. to | 8833. | MHz | 20 | 39 | | dB | 11f |
| | 9276. to | 9636. | MHz | 20 | 32 | | dB | 12f |
| | | 10439. | MHz | 15 | 26 | | dB | 13f |
| | | 11242. | MHz | 15 | 22 | | dB | 14f |
| | | 12045. | MHz | 13 | 19 | | dB | 15f |
| | | | | | | | | |
| | 12368. to | 12750. | MHz | 10 | 15 | | dB | 16f |
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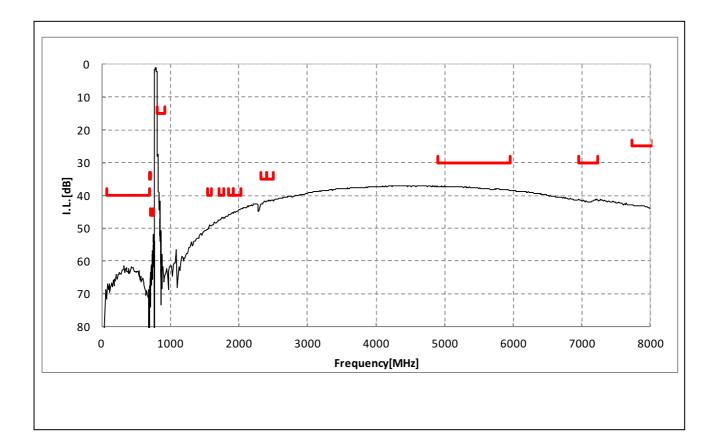
* Typical value at 25±2deg.C



Electrical Characteristic



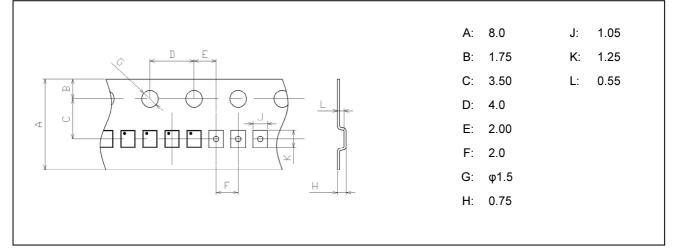
< Single Filter >



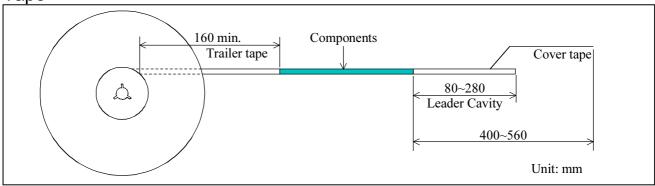


Dimensions of Tape & Reel unit: mm

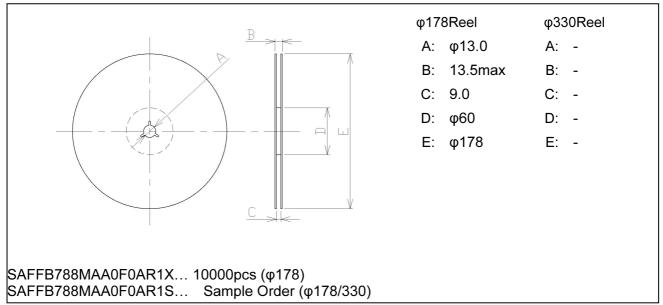
Carrier Tape



Tape



Reel





Marking Code

Table A: Month Code

| CI. | | | | | | | | | | | | | |
|-----|--------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Г | 2013 | Jan. | Feb. | Mar. | Apr. | May. | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
| | 2017 2021 | Α | В | С | D | Е | F | G | н | J | ĸ | L | м |
| Γ | 2014 | Jan. | Feb. | Mar. | Apr. | May. | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
| | 2018 2022 | Ν | Ρ | Q | R | S | Т | U | V | ¥ | х | Y | Z |
| Г | 2015 | Jan. | Feb. | Mar. | Apr. | May. | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
| | 2019 2023 | а | р | ю | d | e | f | u | h | j | k | l | m |
| Г | 2016 | Jan. | Feb. | Mar. | Apr. | May. | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
| | 2020 2024 | n | p | Ŷ | r | ł | t | a | U | 3 | K | y | 8 |

Table B: Date Code

| date | 1st | 2nd | 3rd | 4th | 5th | 6th | 7th | 8th | 9th | 10th | |
|------|------|------|------|------|------|------|------|------|------|------|------|
| code | А | В | С | D | E | F | G | Η | J | К | |
| date | 11th | 12th | 13th | 14th | 15th | 16th | 17th | 18th | 19th | 20th | |
| code | L | М | Ν | Р | Q | R | S | Т | U | V | |
| date | 21st | 22nd | 23rd | 24th | 25th | 26th | 27th | 28th | 29th | 30th | 31st |
| code | W | Х | Y | Z | а | b | ō | d | е | f | g |

Important Notice (1/2)

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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.

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·deviation or lapse in function of engineering sample,

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