

Datasheet of SAW Device

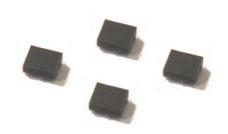
SAW Single Filter

for Band41 / Unbalanced / 5pin /1411

Murata PN: SAFEA2G60MA0F0A

Feature

- Band41 for China
- > 2555-2655MHz



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 No.	Date	Description
SAFEA2G60MA0F0A_rev. A	Dec-10-2013	■ Initial Release
SAFEA2G60MA0F0A_rev. B	Feb-18-2014	■ Updated SPEC
SAFEA2G60MA0F0A_rev. C	Mar-31-2014	■ Updated SPEC
SAFEA2G60MA0F0A_rev. D	Apr-09-2014	■ Updated SPEC / for MP
SAFEA2G60MA0F0A_rev. E	Oct-15-2015	■ Updated SPEC
SAFEA2G60MA0F0A_rev. F	Sep-06-2016	■ Updated General Information
SAFEA2G60MA0F0A_rev. G	Jun-06-2017	■ Updated General Information

- Operating temperature : -20 to +85 deg.C - Storage temperature : -40 to +85 deg.C

- Input Power : +28.5 dBm 5000 h +55 deg.C

(*)Input signal shall be applied to Terminal number(1).

- D.C. Volatage between the terminals : 3V (25+/-2 deg.C)

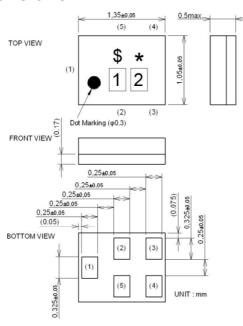
Minimum Resistance between the terminals : 10M ohm
 RoHS compliance : Yes
 ESD (ElectroStatic Discharge) sensitive device



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 : 2 2 : W

Terminal Number

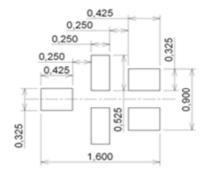
(1): Unbalance Port (PA-side)

(4): Unbalance Port (Ant.-side)

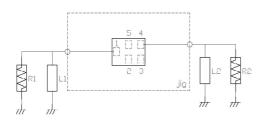
Others: GND

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

Land Pattern



Measurement Circuit (Top Thru View)



R1 : 50 ohm	L1 :5nH(Ideal inductor)
R2 : 50 ohm	L2 :5nH(Ideal inductor)



Electrical Characteristic < Single Filter >

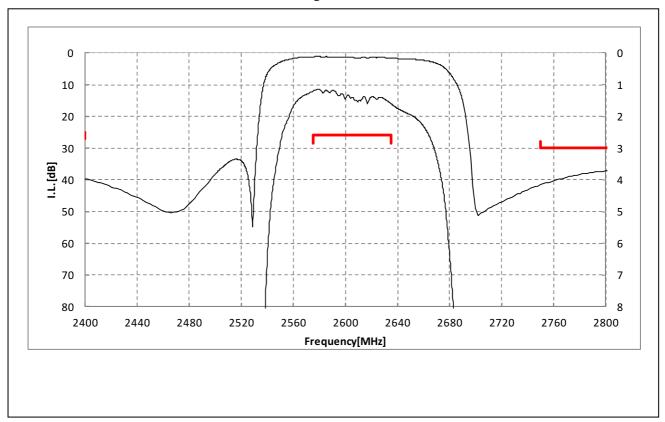
Item	Electrical Cha	i actei	1511	<u> </u>	Jirigi	Cha	racteri	stics			
Center Frequency		Item								Note	
Insertion Loss	Contor Fraguency					min.		max.	MUZ	1	
2575.		2555	to	2575	MUZ			3 3			
2635. to 2655. MHz 2.1 2.8 dB 2555. to 2575. to 2635. MHz 1.6 2.4 dB +23 to +27deg.C 2635. to 2655. MHz 2.1 2.6 dB +23 to +27deg.C 2635. to 2655. MHz 2.1 2.6 dB +23 to +27deg.C 2635. to 2655. MHz 1.0 2.4 dB 2555. to 2655. MHz 1.0 2.4 dB 2555. to 2655. MHz 1.0 1.8 dB +23 to +27deg.C 2555. to 2655. MHz 1.4 1.8 2555. to 2655. MHz 1.4 1.8 2555. to 2655. MHz 1.4 1.7 +23 to +27deg.C 2555. to 2655. MHz 40 44 dB 423 to +27deg.C 2555. to 2655. MHz 40 44 dB 423 to +27deg.C 4255. to 1559. MHz 30 33 dB 423 to +27deg.C 4255. to 1559. MHz 30 33 dB 423 to +27deg.C 4255. to 1559. MHz 40 44 dB 423 to +27deg.C 4255. to 1559. MHz 40 44 dB 423 to +27deg.C 4255. to 1559. MHz 40 44 dB 423 to +27deg.C 4255. to 1559. MHz 40 44 dB 425 to +27deg.C 4255. to 1559. MHz 40 43 dB 425 to +27deg.C 4255. to 1559. MHz 427 31 dB 425 to +27deg.C 4255. to 1559. MHz 427 31 dB 425 to +27deg.C 4265. To 1606. MHz 427 31 dB 425 to +27deg.C 4265. To 1606. MHz 427 31 dB 427	Insertion Loss										
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Ripple Deviation										+23 to +27deg.C	
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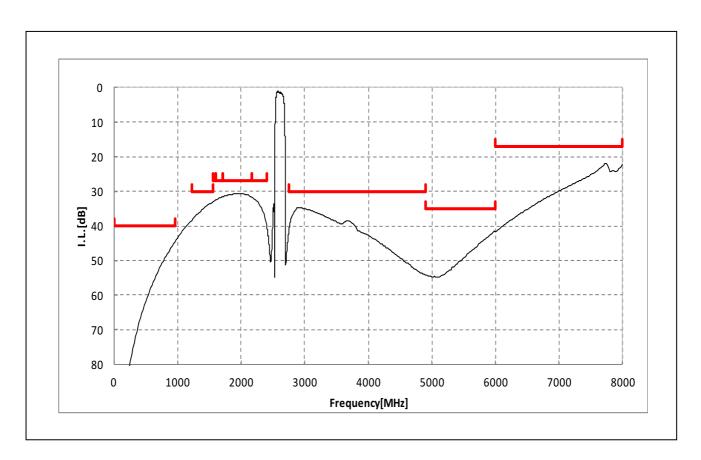
^{*} Typical value at 25±2deg.C



Electrical Characteristic

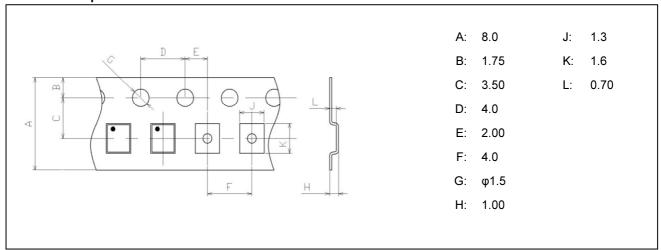
< Single Filter >



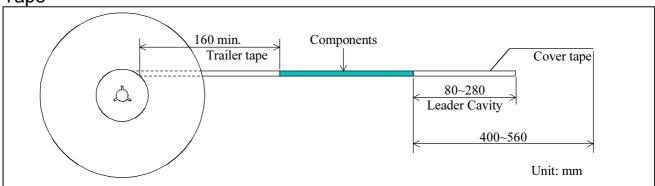


Dimensions of Tape & Reel unit: mm

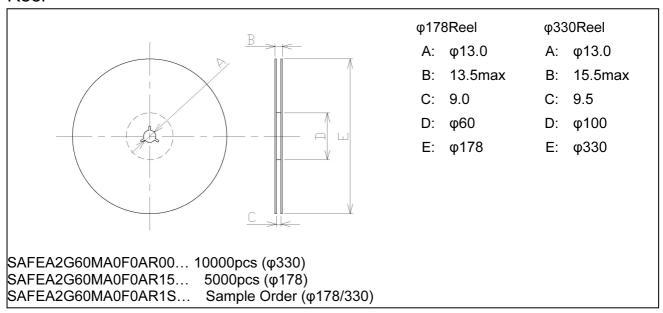
Carrier Tape



Tape



Reel





Marking Code

Table :	A: N	1onth	Code
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2013	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2017 2021	Α	В	С	D	Е	F	G	Н	J	K	L	М
2014	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2018 2022	Z	Р	Q	R	S	Т	J	>	W	Х	Y	Z
2015	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2019 2023	а	р	10	d	е	f	g	h	j	k	Q	m
2016	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2020 2024	c	P	G	r	d	t	a	٦	3	×	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.

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 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.

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.

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

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

We disclaim any liability for consequential and incidental damages.

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