Datasheet of SAW Device

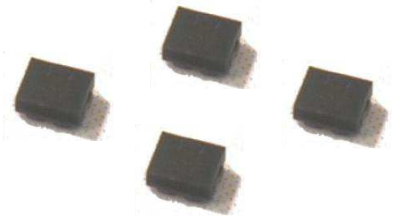
SAW Single Filter

for Band26 / Unbalanced / 5pin /1109

Murata PN: SAFFB876MAA0F0A

■ Feature

- High Attenuation
- Low Insertion Loss



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

SAFFB876MAA0F0A (Band26 / Unbalanced / 5pin / 1109)

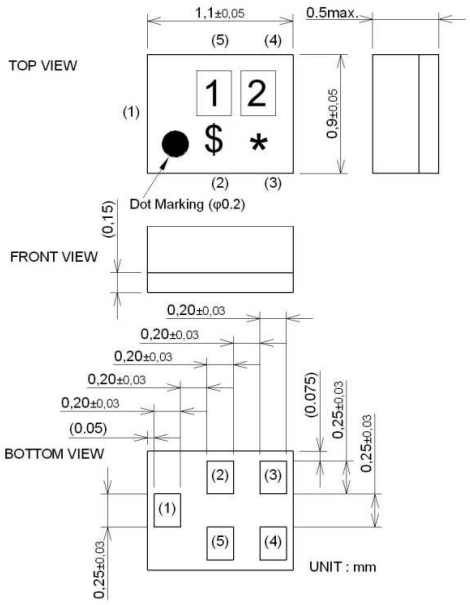
Revision Number	Date	Description
SAFFB876MAA0F0A_rev. A	Jan-22-2013	■ Initial Release
SAFFB876MAA0F0A_rev. B	Jun-10-2013	■ Updated for MP
SAFFB876MAA0F0A_rev. C	Aug-18-2016	■ Updated General Information
SAFFB876MAA0F0A_rev. D	Mar-10-2017	■ Updated General Information

- Operating temperature : -30 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
- 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 : Y

2 : 1

Terminal Number

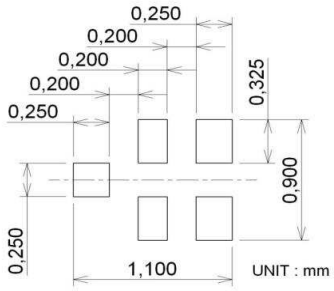
(1) : Unbalanced port

(4) : Unbalanced port

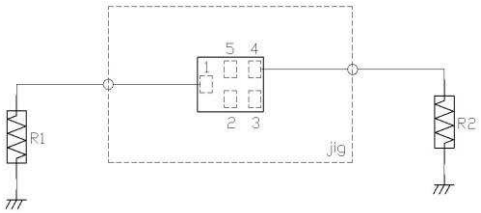
Others : GND

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

Land Pattern



Measurement Circuit (Top Thru View)



R1 : 50 ohm	
R2 : 50 ohm	

SAFFB876MAA0F0A (Band26 / Unbalanced / 5pin / 1109)

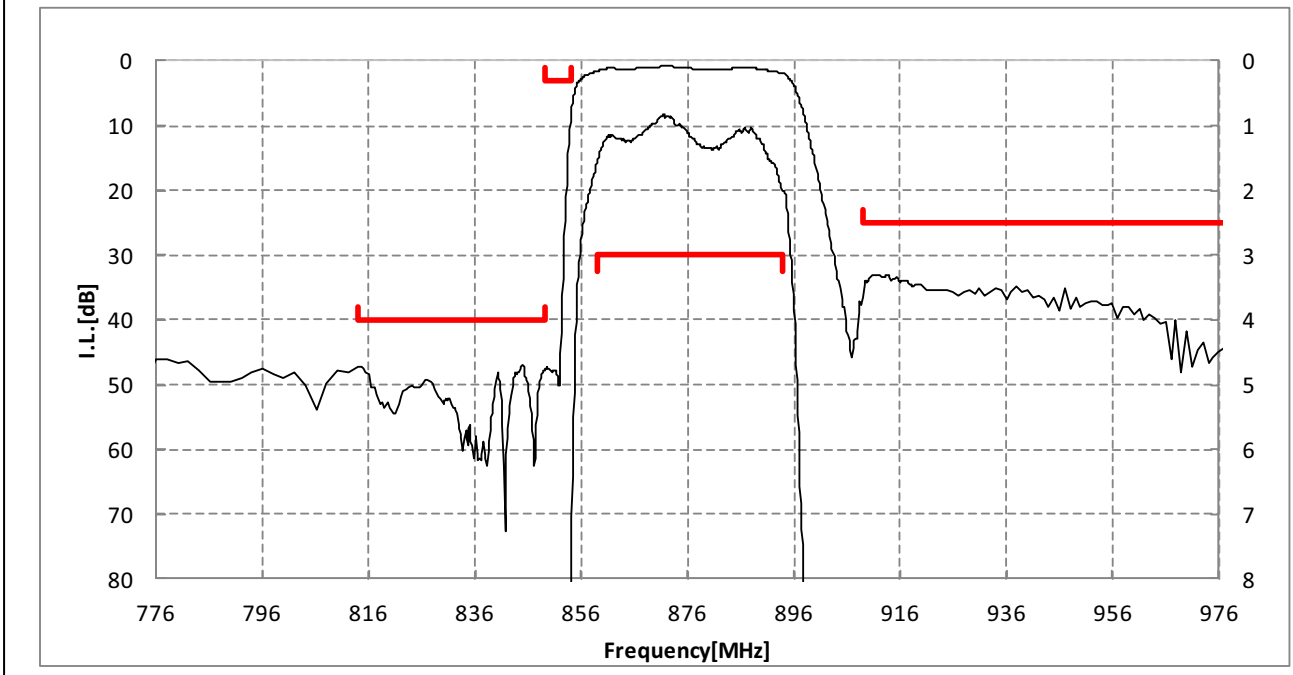
Electrical Characteristic < Single Filter >

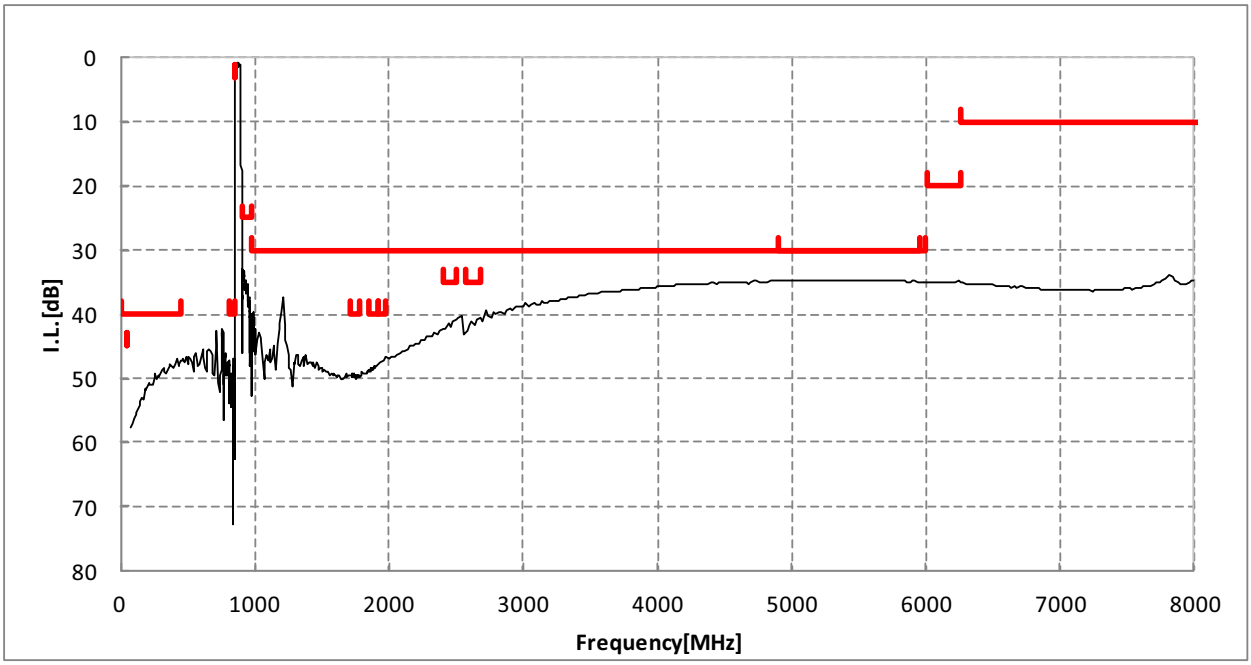
Item					Characteristics (-30 to +85 deg.C)			Unit	Note
					min.	typ.*	max.		
Center Frequency						876.5		MHz	
Insertion Loss	859.	to	894.	MHz		2.1	3.0	dB	
	859.	to	894.	MHz		2.1	2.5	dB	+23 to +27deg.C
Ripple Deviation	859.	to	894.	MHz		1.2	2.2	dB	
VSWR	859.	to	894.	MHz		2.0	2.3		
Absolute Attenuation	1.	to	447.	MHz	40	46		dB	
	45.	to	45.	MHz	45	50		dB	RX - TX
	814.	to	849.	MHz	40	45		dB	TX
	849.	to	854.	MHz	3.0	22.0		dB	
	849.	to	854.	MHz	10	22		dB	+23 to +27deg.C
	909.	to	979.	MHz	25	32		dB	
	979.	to	6000.	MHz	30	34		dB	
	1710.	to	1785.	MHz	40	50		dB	B3/4 TX
	1850.	to	1915.	MHz	40	48		dB	B25 TX
	1920.	to	1980.	MHz	40	47		dB	B1 TX
	2400.	to	2500.	MHz	35	40		dB	ISM2.4
	2577.	to	2682.	MHz	35	40		dB	3f
	4900.	to	5950.	MHz	30	34		dB	ISM 5G
	6013.	to	6258.	MHz	20	34		dB	
	6258.	to	12750.	MHz	10	15		dB	

* Typical value at 25±2deg.C

Electrical Characteristic

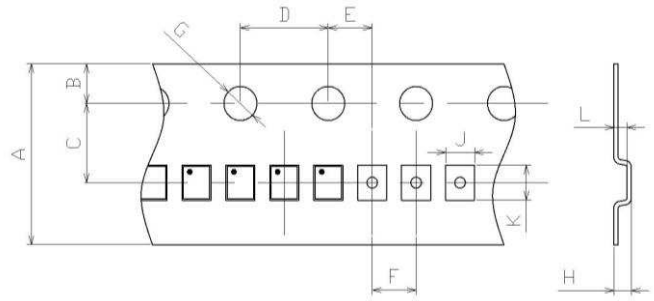
< Single Filter >





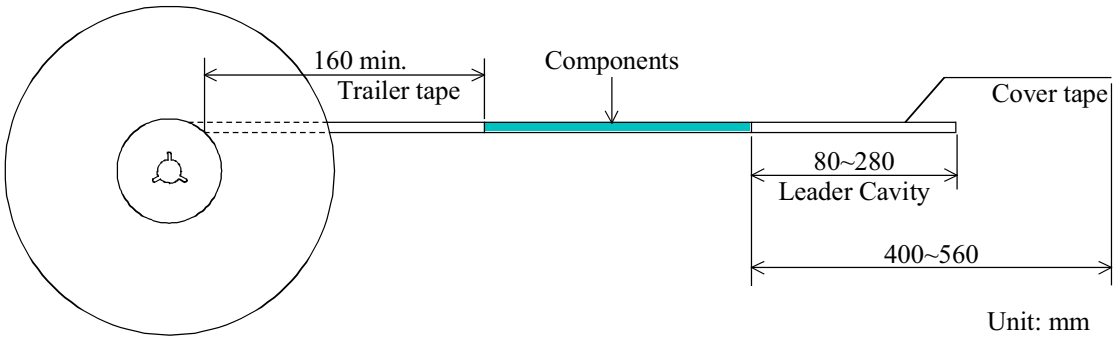
Dimensions of Tape & Reel unit: mm

Carrier Tape

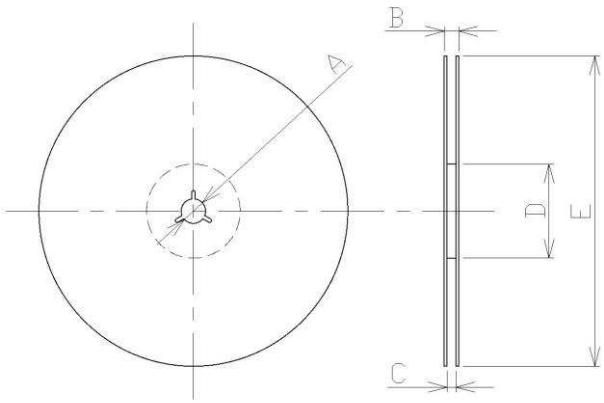


A:	8.0	J:	1.05
B:	1.75	K:	1.25
C:	3.50	L:	0.55
D:	4.0		
E:	2.00		
F:	2.0		
G:	φ1.5		
H:	0.75		

Tape



Reel



φ178Reel		φ330Reel	
A:	φ13.0	A:	-
B:	13.5max	B:	-
C:	9.0	C:	-
D:	φ60	D:	-
E:	φ178	E:	-

SAFFB876MAA0F0AR1X… 10000pcs (φ178)
SAFFB876MAA0F0AR1S… Sample Order (φ178/330)

Marking Code

Table A: Month Code

2013 2017 2021	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
	A	B	C	D	E	F	G	H	J	K	L	M
2014 2018 2022	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
	N	P	Q	R	S	T	U	V	W	X	Y	Z
2015 2019 2023	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
	a	b	$\bar{c}$	d	e	f	g	h	j	k	l	m
2016 2020 2024	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
	n	p	q	r	s	t	u	v	w	x	y	z

Table B: Date Code

date	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	
code	A	B	C	D	E	F	G	H	J	K	
date	11th	12th	13th	14th	15th	16th	17th	18th	19th	20th	
code	L	M	N	P	Q	R	S	T	U	V	
date	21st	22nd	23rd	24th	25th	26th	27th	28th	29th	30th	31st
code	W	X	Y	Z	a	b	$\bar{c}$	d	e	f	g

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.

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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.

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.

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.

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