

# Datasheet of SAW Device

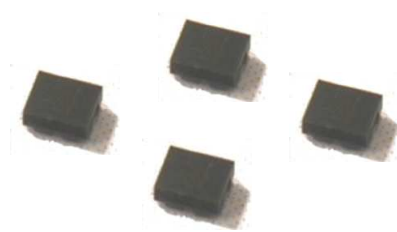
## SAW Single Filter

for Band2 / Unbalanced / 5pin /1109

Murata PN: SAFFB1G96AB0F0A

### ■ Feature

- GSM1900/Band2 Rx



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

**SAFFB1G96AB0F0A ( Band2 / Unbalanced / 5pin / 1109 )**

Revision No.	Date	Description
SAFFB1G96AB0F0A_rev. A	Feb-28-2013	■ Initial Release / MP
SAFFB1G96AB0F0A_rev. B	Sep-06-2016	■ Updated General Information
SAFFB1G96AB0F0A_rev. C	May-09-2017	■ Updated General Information

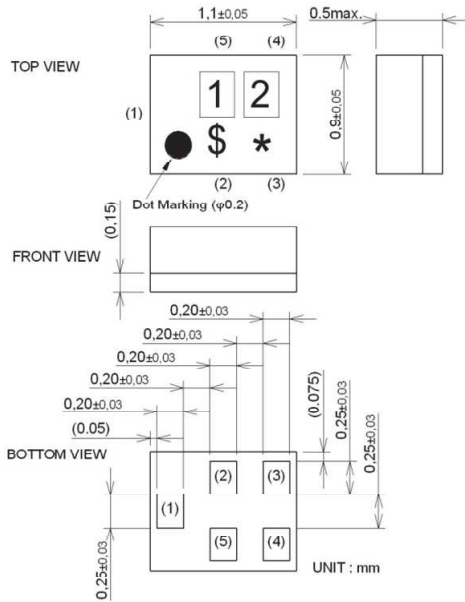
- Operating temperature : -30 to +85 deg.C
- Storage temperature : -40 to +85 deg.C
- Input Power : +13 dBm 2000 h
- D.C. Volatage between the terminals : 3V (25+/-2 deg.C)
- Minimum Resistance between the terminals : 10M ohm
- RoHS compliance : Yes
- ESD (ElectroStatic Discharge) sensitive device

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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 : 1

Terminal Number

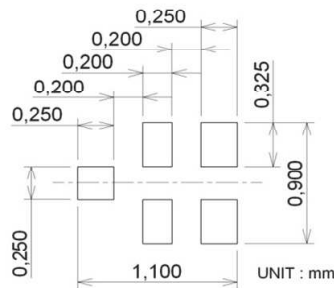
(1) : Unbalanced port

(4) : Unbalanced port

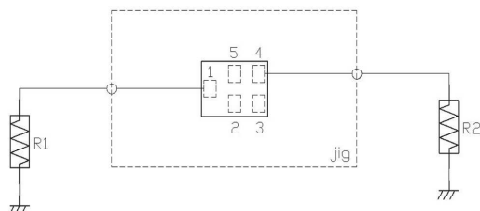
Others : GND

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

Land Pattern



Measurement Circuit (Top Thru View)



R1 : 50 ohm	
R2 : 50 ohm	

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Electrical Characteristic < Single Filter >

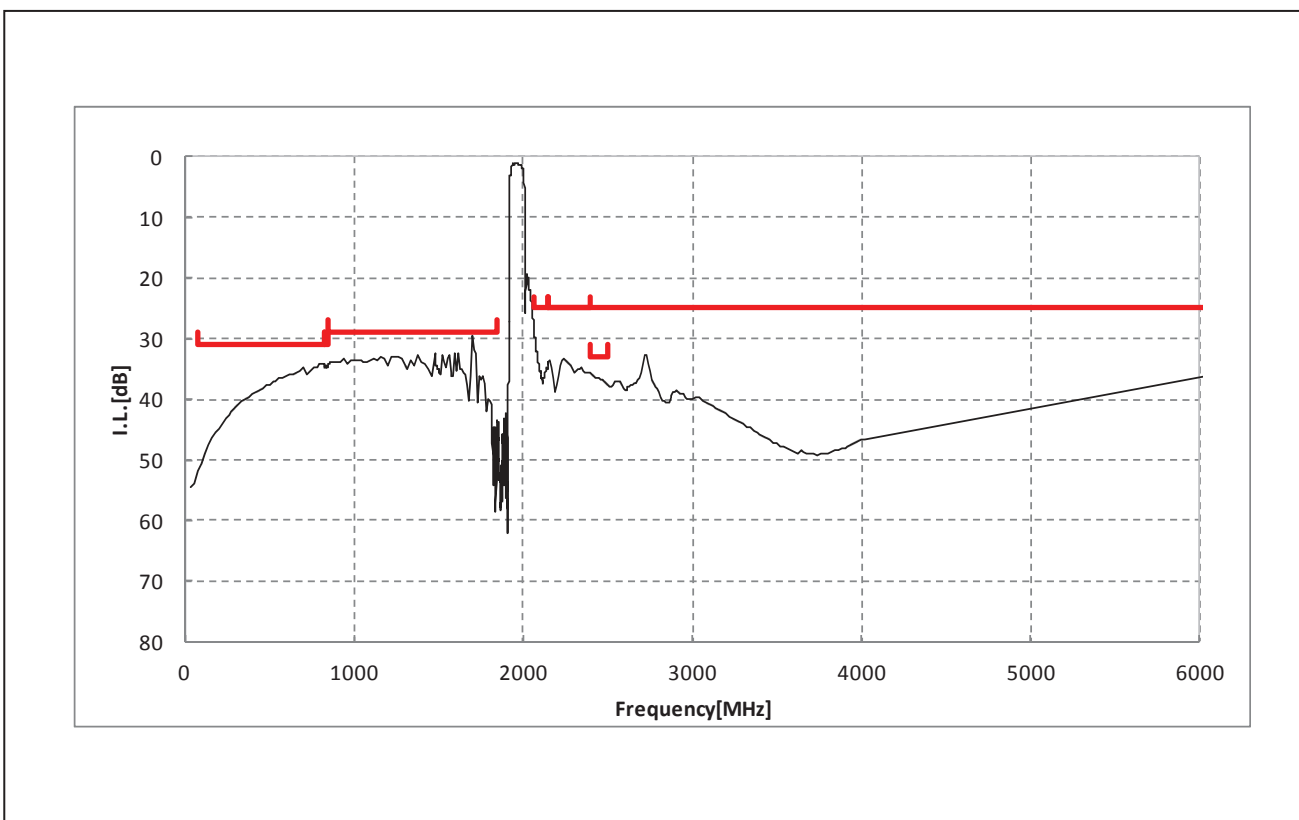
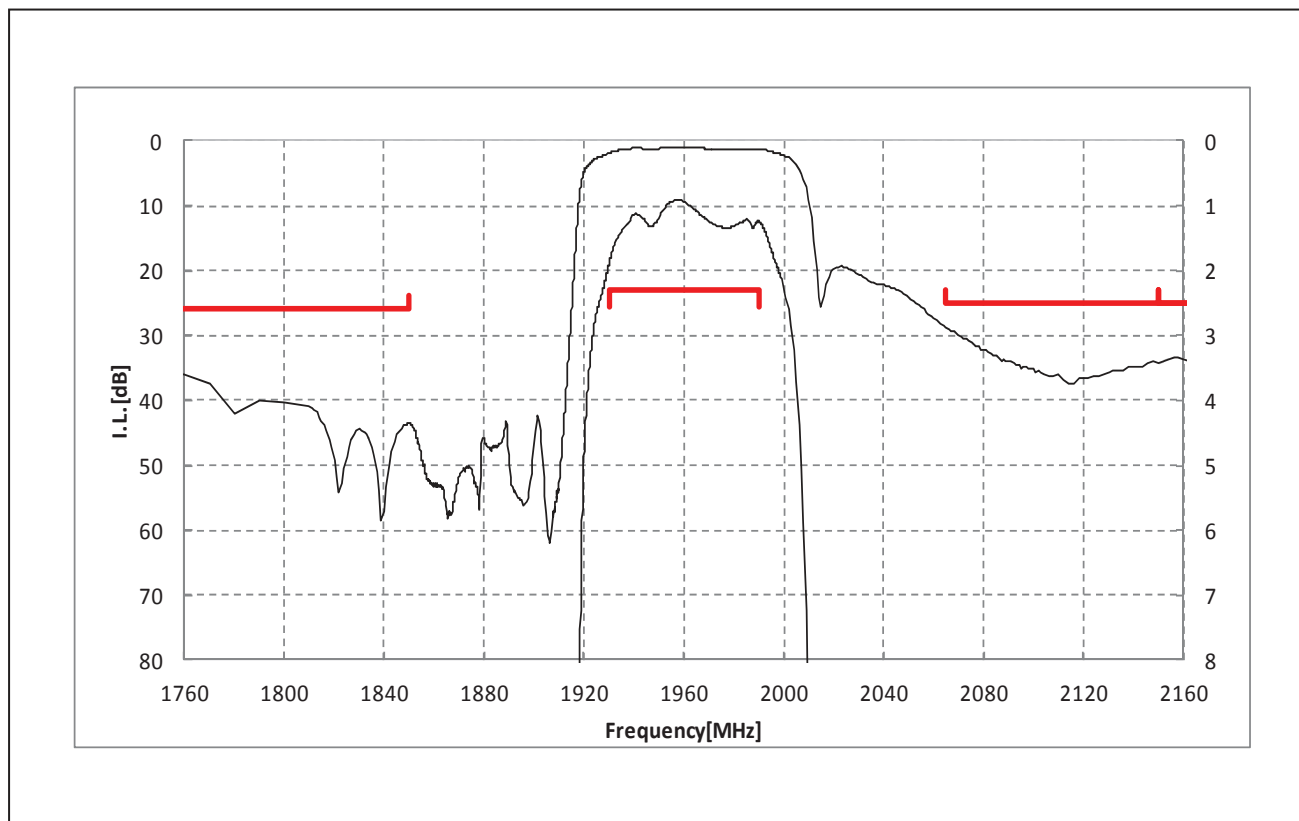
Item	Characteristics ( -30 to +85 deg.C )				Unit	Note		
							min.	typ.*
	Center Frequency						1960	MHz
Insertion Loss	1932.4	to	1987.6	MHz	1.5	2.2	dBINT	Any 3.84MHz
	1932.4	to	1987.6	MHz	1.5	2.0	dBINT	
	1930.	to	1990.	MHz	1.7	2.5	dB	
	1930.	to	1990.	MHz	1.7	2.3	dB	+23 to +27deg.C
Ripple Deviation	1930.	to	1990.	MHz	0.9	2.0	dB	
	1930.	to	1990.	MHz	0.9	1.8	dB	+23 to +27deg.C
	1930.	to	1990.	MHz	0.4	1.2	dB	Any 5MHz
	1930.	to	1990.	MHz	0.4	1.0	dB	23 to +27deg.C, Any 5MHz
VSWR	1930.	to	1990.	MHz	1.5	2.1		
Absolute Attenuation	30.	to	824.	MHz	31	34	dB	
	824.	to	849.	MHz	31	34	dB	
	849.	to	1850.	MHz	26	30	dB	
	1852.4	to	1907.6	MHz	38	46	dBINT	Any 3.84MHz
	1852.4	to	1907.6	MHz	40	46	dBINT	+23 to +27deg.C,Any 3.84MHz
	2065.	to	2150.	MHz	25	28	dB	
	2150.	to	2400.	MHz	25	28	dB	
	2400.	to	2500.	MHz	33	38	dB	
	2150.	to	8000.	MHz	25	28	dB	

\* Typical value at 25±2deg.C

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Electrical Characteristic

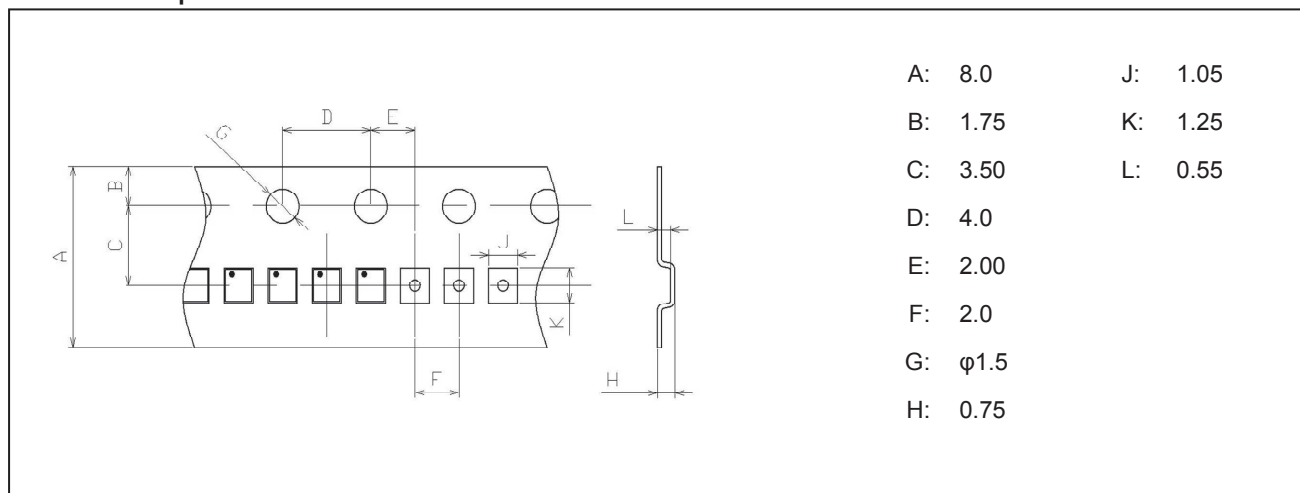
< Single Filter >



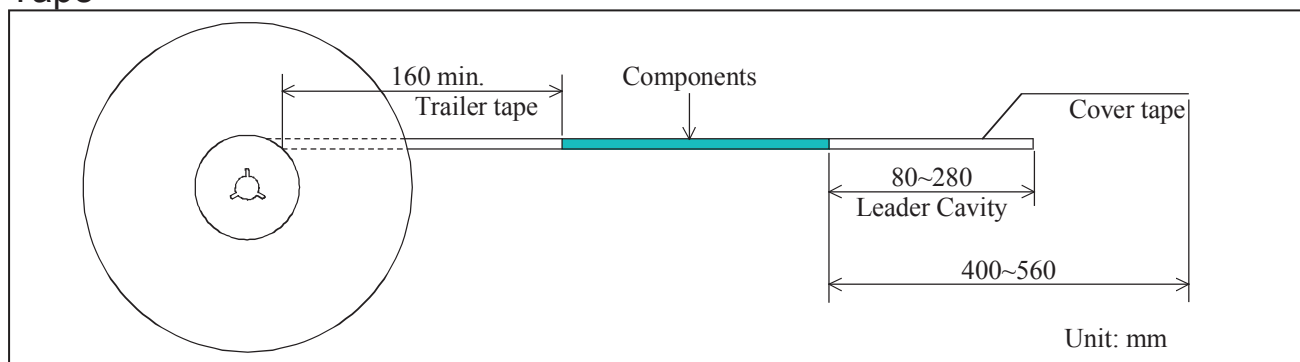
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Dimensions of Tape & Reel unit: mm

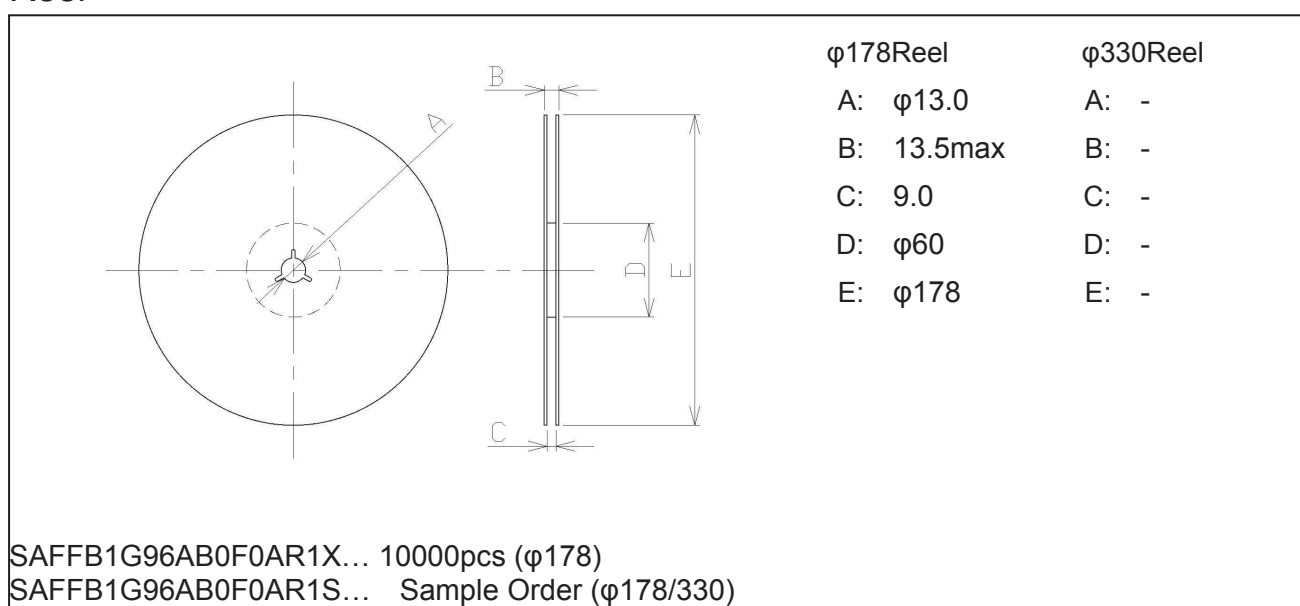
Carrier Tape



Tape



Reel



## 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	c̄	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	c̄	d	e	f	g

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- 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 surge voltage.

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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).

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