



# Datasheet of SAW Device

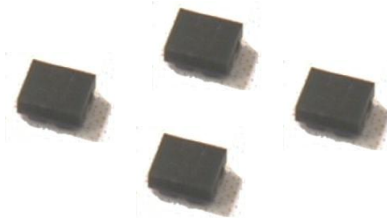
## SAW Single Filter

for Band7 / Balanced / 5pin / 1109

Murata PN: SAFFB2G65FB0F0A

### ■ Feature

- Diversity filter for B7
- Low insertion loss 2.8dBmax.
- High attenuation on Tx 46dBmin



Note : Murata SAW Component is applicable for Cellular /Cordless phone (Terminal) relevant market only.

Please also read caution at the end of this document.

**SAFFB2G65FB0F0A ( Band7 / Balanced / 5pin / 1109 )**

Revision No.	Date	Discription
SAFFB2G65FB0F0A_rev. A	Dec-17-2012	■ Initial Release / MP

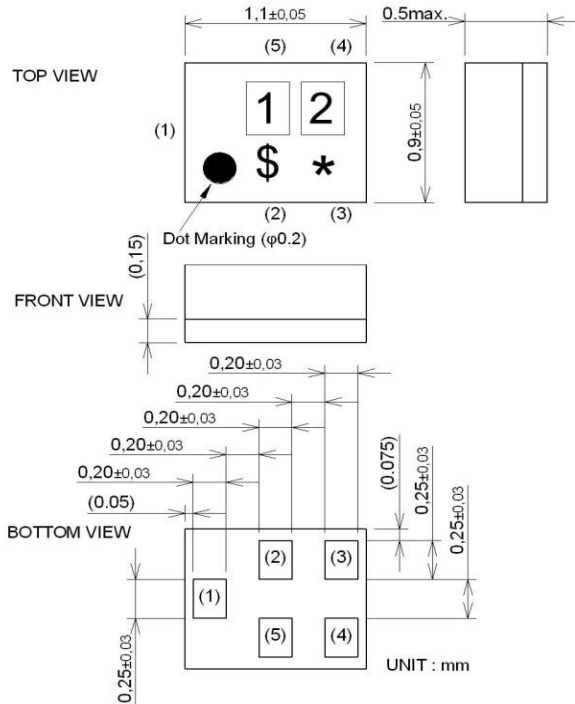
- Operating temperature : -30 to +85 deg.C
- Storage temperature : -40 to +85 deg.C
- Input Power : +10 dBm 8000 h
- D.C. Volatage between the terminals : 3V (25+/-2 deg.C)
- Minimum Resistance between the terminals : 10M ohm
- RoHS compliance : Yes

**SAFFB2G65FB0F0A (Band7 / Balanced / 5pin / 1109)**

**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 : T

2 : Z

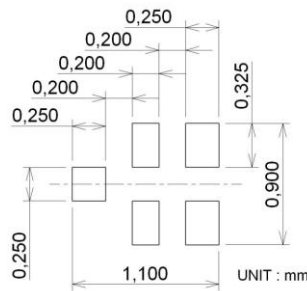
Terminal Number

(1) : Unbalance Port

(3)(4) : Balance Port

Others : GND.

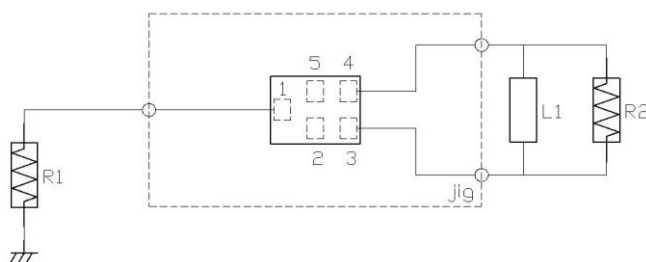
**Land Pattern**



**Measurement Circuit (Top View)**

R1 : 50 ohm

R2 : 100 ohm L1 : 22 nH(Ideal inductor)



**SAFFB2G65FB0F0A ( Band7 / Balanced / 5pin / 1109 )**

**Electrical Characteristic < Single Filter >**

**Matching Impedance (nominal)**

- :Unbalance Port                      : 50 ohm
- :Balance Port                         : 100 ohm // 22 nH(Ideal inductor)

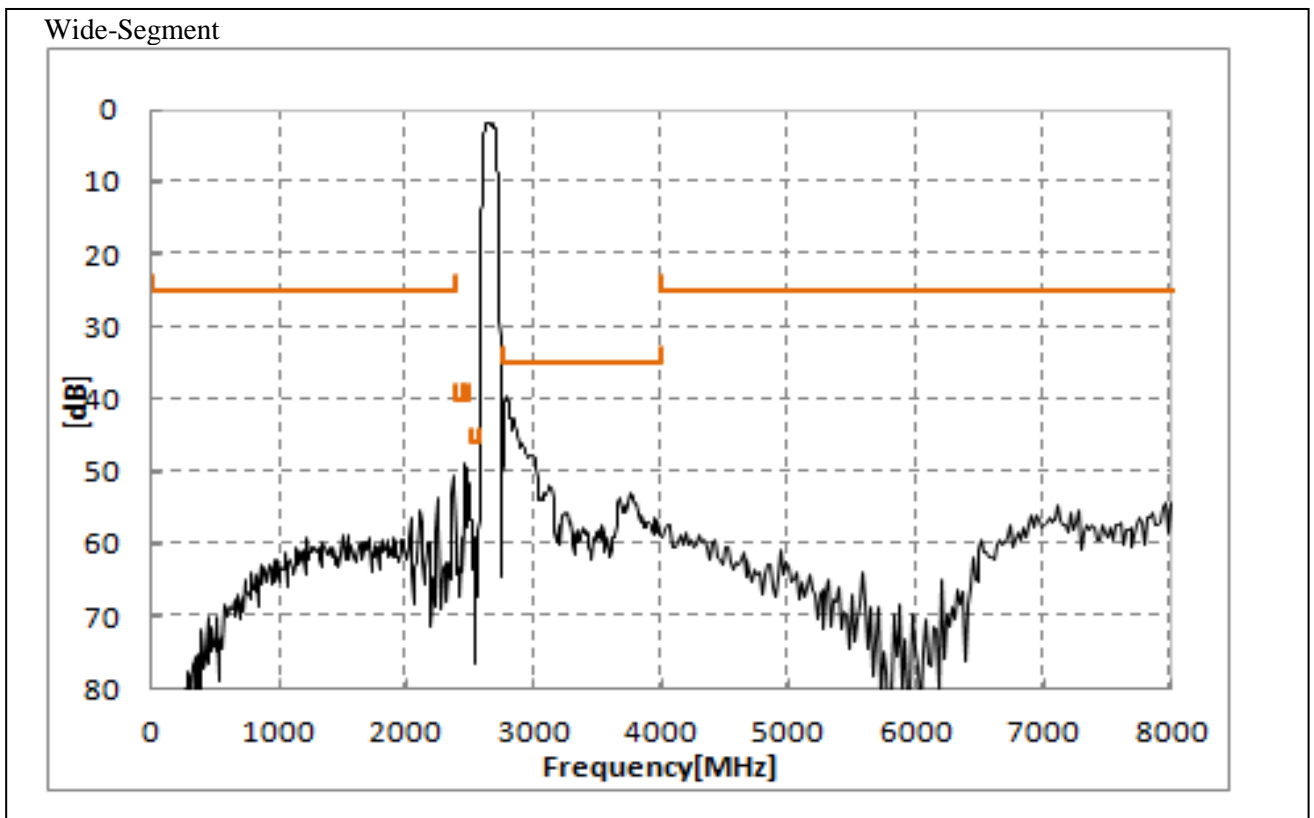
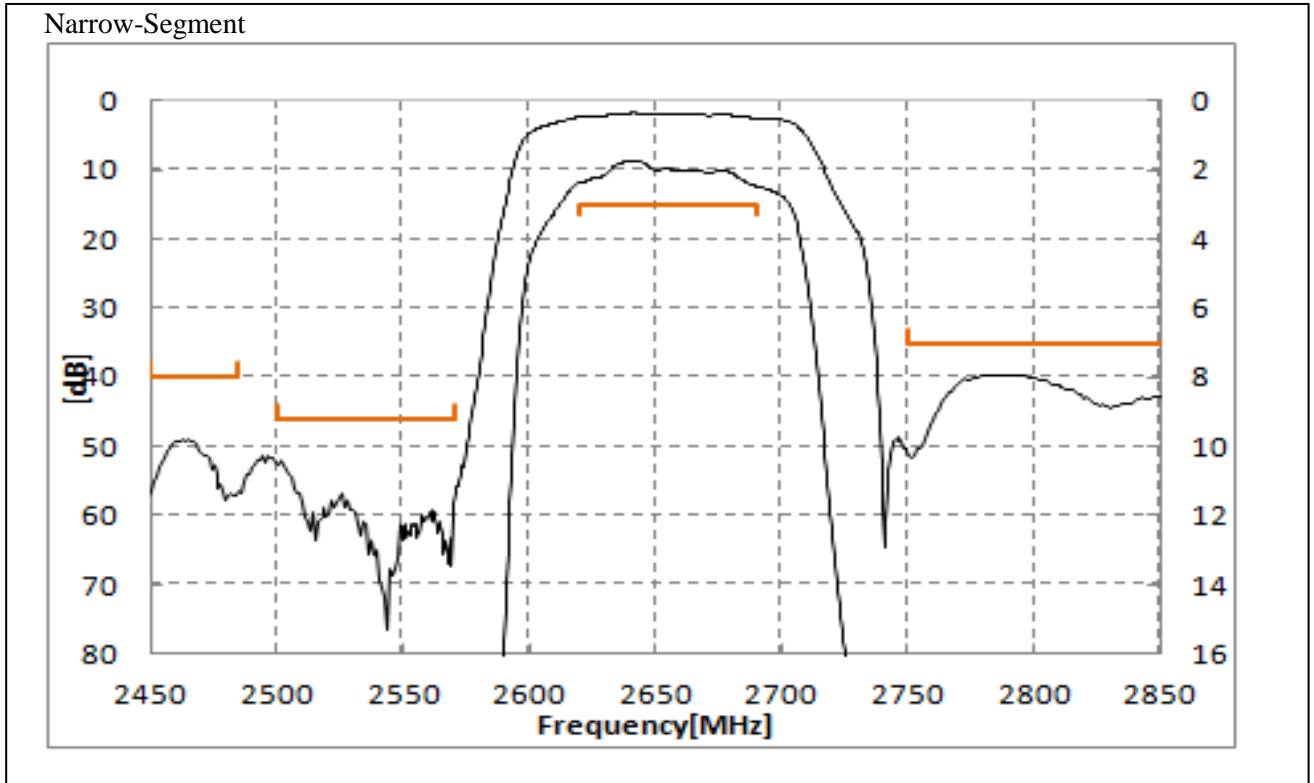
Item		Characteristics ( -30 to +85 deg.C )			Unit	Note
		min.	typ.	max.		
		Center Frequency		2655		
Insertion Loss	2620. to 2690. MHz	2.5	3			
		2.5	2.8		+23 to +27deg.C	
Ripple Deviation	2620. to 2690. MHz	0.9	1.5			
		0.9	1.2		+23 to +27deg.C	
VSWR	2620. to 2690. MHz	1.6	2.0			
		1.6	1.8		+23 to +27deg.C	
Amplitude Balance	2620. to 2690. MHz	-1.4	0.9	1.4		
		-1.2	0.9	1.2		+23 to +27deg.C
Phase Balance	2620. to 2690. MHz	168	187	192	deg.	
		170	187	190	deg.	+23 to +27deg.C
Absolute Attenuation	1. to 2000. MHz	40	55			
	2000. to 2380. MHz	25	42			
	2380. to 2450. MHz	40	50			
	2450. to 2484. MHz	40	48			
	2500. to 2570. MHz	46	52			
	2750. to 4000. MHz	35	39			
	4000. to 12750. MHz	25	40			

\* Typical value at 25±2deg.C

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Electrical Characteristic

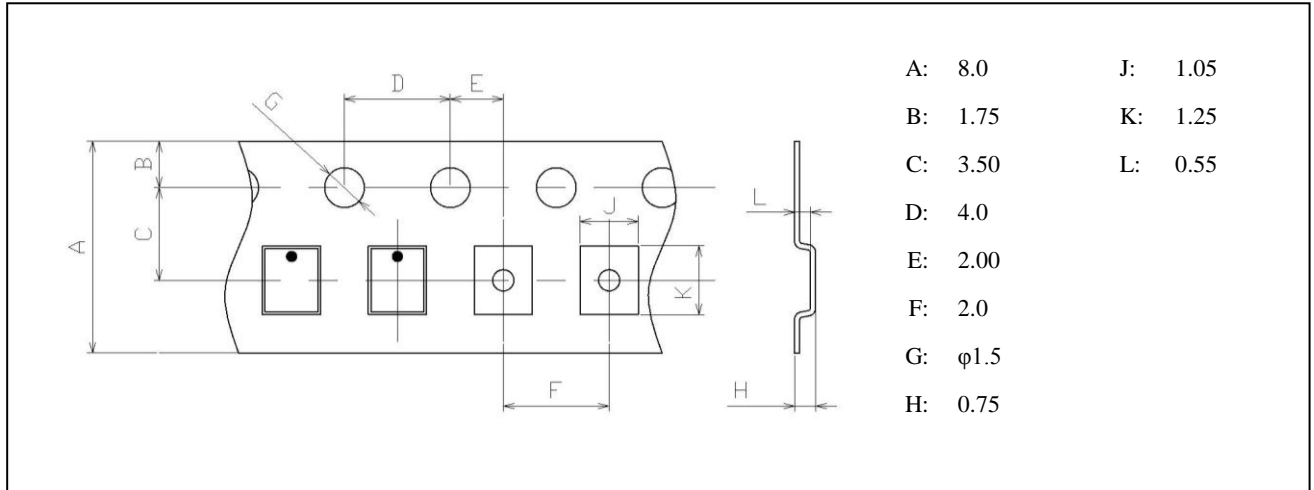
< Single Filter >



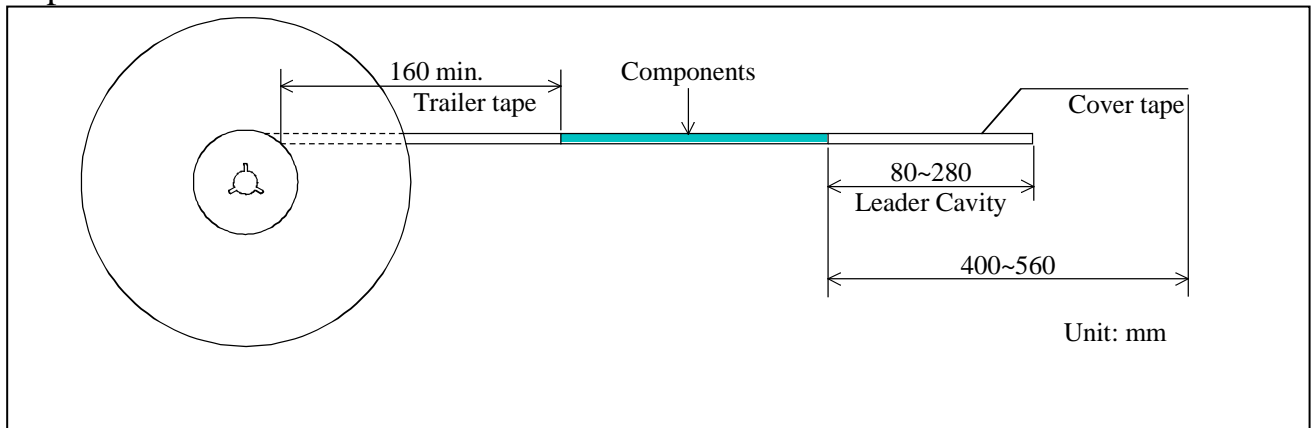
**SAFFB2G65FB0F0A (Band7 / Balanced / 5pin / 1109)**

**Dimensions of Tape & Reel** unit: mm

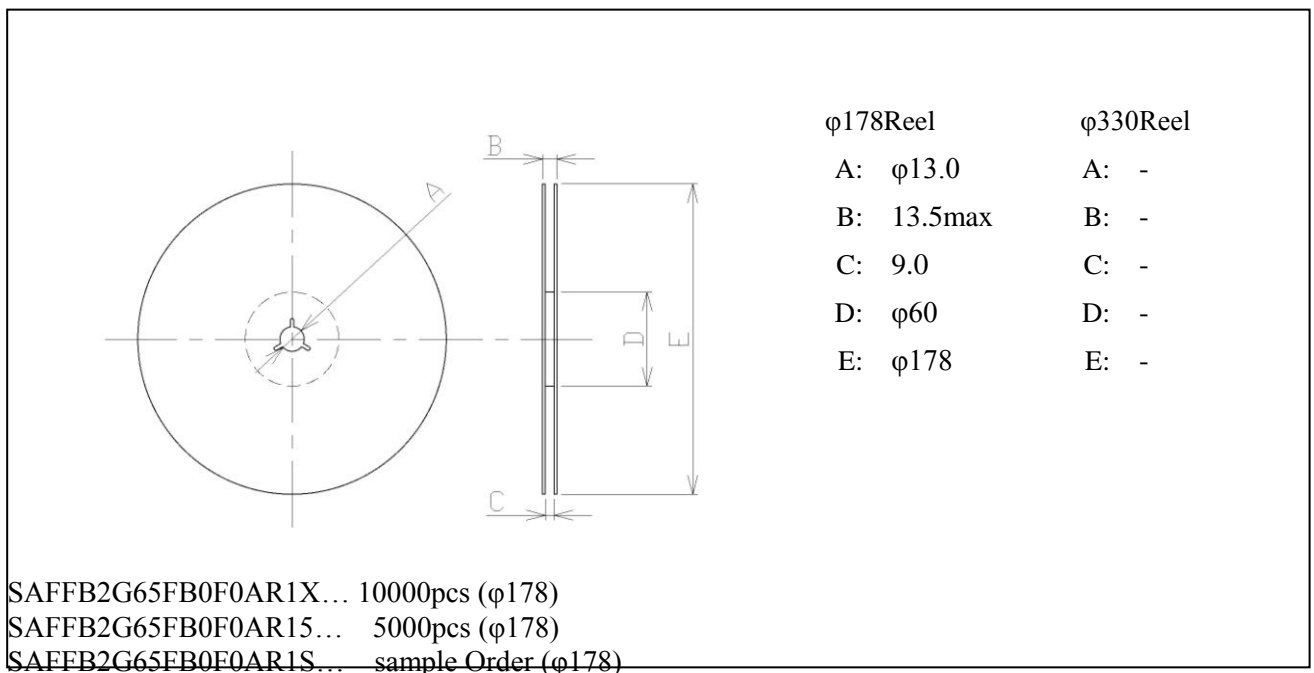
**Carrier Tape**



**Tape**



**Reel**



**SAFFB2G65FB0F0A (Band7 / Balanced / 5pin / 1109)**

**Marking Code**

**Table A: Month Code**

2009 2013 2017	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
	A	B	C	D	E	F	G	H	J	K	L	M
2010 2014 2018	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
	N	P	Q	R	S	T	U	V	W	X	Y	Z
2011 2015 2019	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
	a	b	c̄	d	e	f	g	h	j	k	l	m
2012 2016 2020	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

**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.

## SAFFB2G65FB0F0A ( Band7 / Balanced / 5pin / 1109 )

### Important Notice (2/2)

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- 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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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

- 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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