



Datasheet of SAW Device

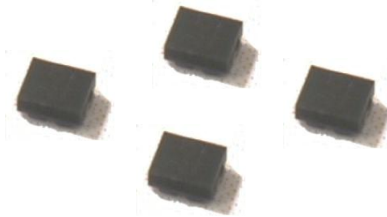
SAW Single Filter

for Band38 / Balanced / 5pin /1109

Murata PN: SAFFB2G59FL0F0A

■ Feature

- Rx filter for B38
-
-



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

Please also read caution at the end of this document.

SAFFB2G59FL0F0A (Band38 / Balanced / 5pin / 1109)

Revision No.	Date	Discription
SAFFB2G59FL0F0A_rev. A	Jan-24-2013	■ Initial Release

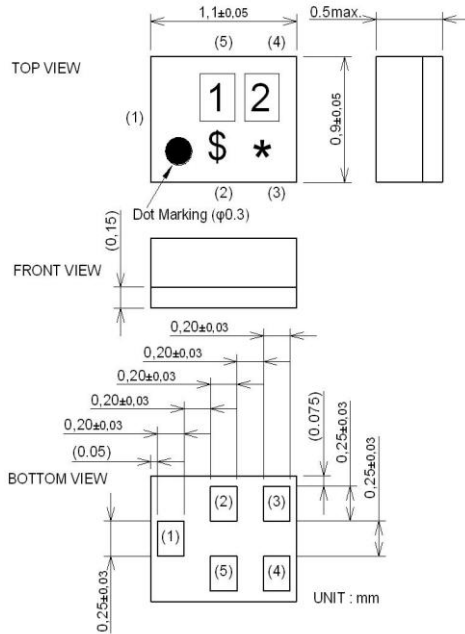
- Operating temperature : -30 to +85 deg.C
- Storage temperature : -40 to +85 deg.C
- Input Power : +10 dBm 8000 h
- D.C. Volatage between the terminals : 3V (25+/-2 deg.C)
- Minimum Resistance between the terminals : 10M ohm
- RoHS compliance : Yes

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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 : R

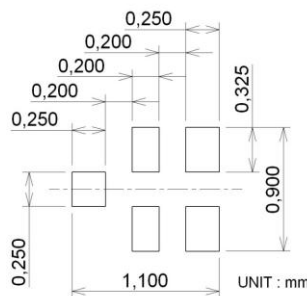
Terminal Number

(1) :Unbalance Port

(3)(4) :Balance Port

Others : GND.

Land Pattern

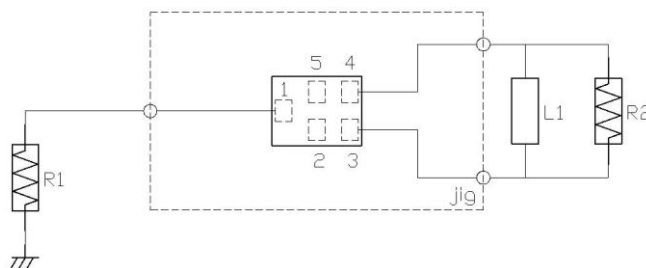


Measurement Circuit (Top View)

R1 : 50 ohm

R2 : 100 ohm

L1 : 18 nH(Ideal inductor)



Electrical Characteristic < Single Filter >

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Matching Impedance (nominal)

- :Unbalance Port : 50 ohm
- :Balance Port : 100 ohm // 18 nH(Ideal inductor)

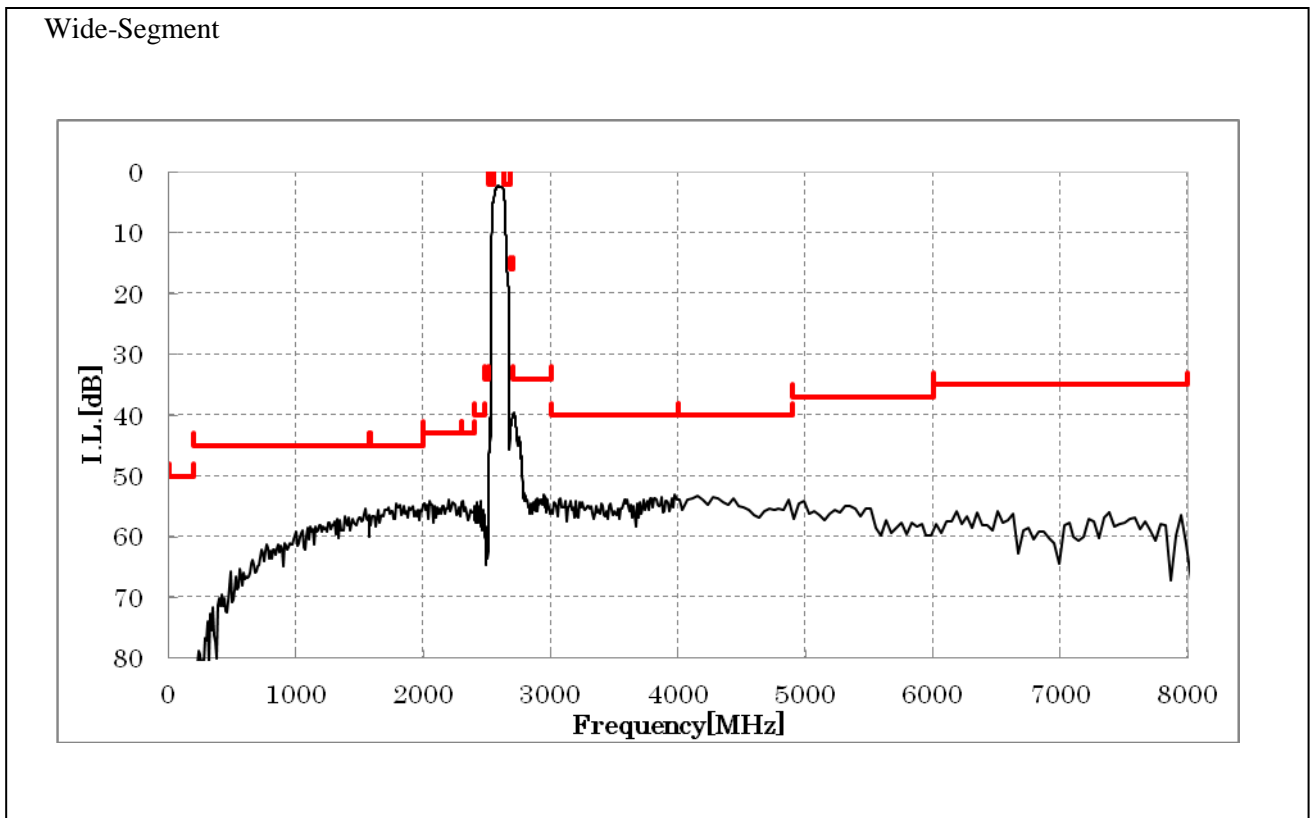
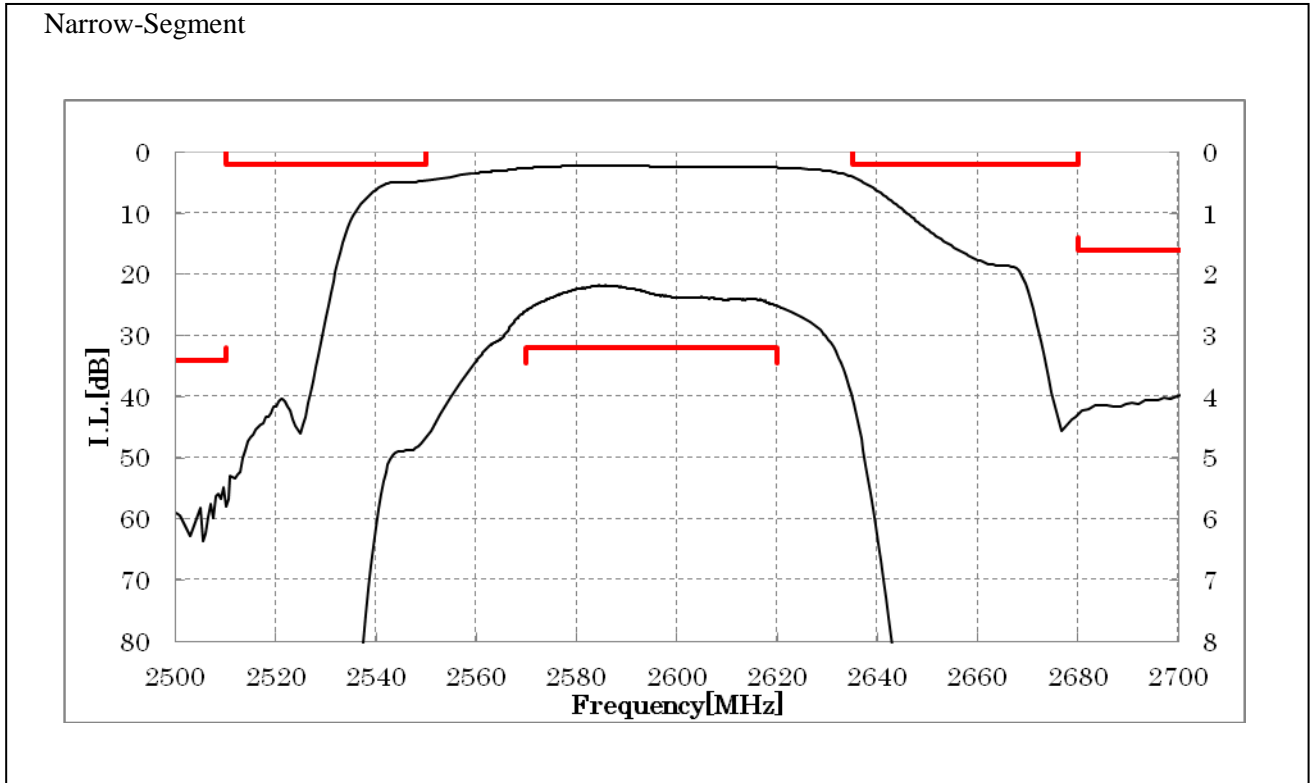
Item	Characteristics (-30 to +85 deg.C)			Unit	Note	
	min.	typ.	max.			
	Center Frequency		2595			
Insertion Loss	2570. to 2620. MHz	2.6	3.5	dB		
	2570. to 2620. MHz	2.6	3.2			+23 to +27deg.C
Ripple Deviation	2570. to 2620. MHz	0.5	1.6	dB		
	2570. to 2620. MHz	0.5	1.1			+23 to +27deg.C
VSWR	2570. to 2620. MHz	1.5	2.0			
Amplitude Balance	2570. to 2620. MHz	-1.5	0.3	+1.5	dB	
Phase Balance	2570. to 2620. MHz	168	186	192	deg.	
Absolute Attenuation	1. to 200. MHz	50	81		dB	
	200. to 1570. MHz	45	56		dB	
	1570. to 1580. MHz	45	57		dB	
	1580. to 2000. MHz	45	55		dB	
	2000. to 2300. MHz	43	55		dB	
	2300. to 2400. MHz	43	55		dB	
	2400. to 2485. MHz	40	55		dB	
	2485. to 2510. MHz	34	54		dB	
	2485. to 2510. MHz	40	54		dB	+23 to +27deg.C
	2510. to 2550. MHz	2	5		dB	
	2510. to 2550. MHz	3	5		dB	+23 to +27deg.C
	2635. to 2680. MHz	2	4		dB	
	2680. to 2705. MHz	16	40		dB	
	2680. to 2705. MHz	25	40		dB	+23 to +27deg.C
	2705. to 3000. MHz	34	40		dB	
	3000. to 4000. MHz	40	53		dB	
	4000. to 4900. MHz	40	53		dB	
4900. to 6000. MHz	37	53		dB		
4900. to 6000. MHz	40	53		dB	+23 to +27deg.C	
6000. to 8000. MHz	35	53		dB		

* Typical value at 25±2deg.C

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Electrical Characteristic

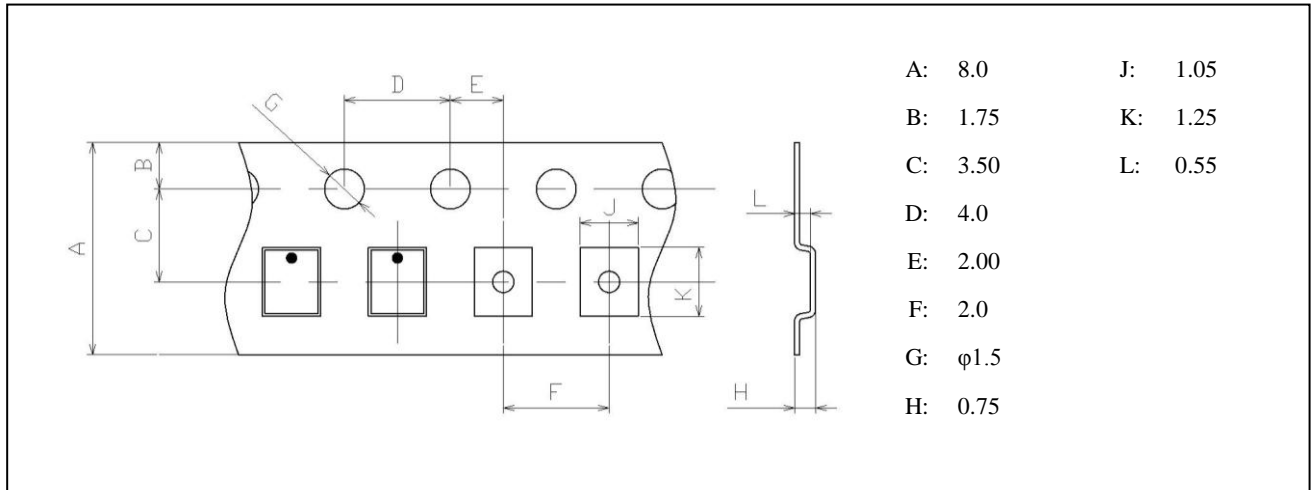
< Single Filter >



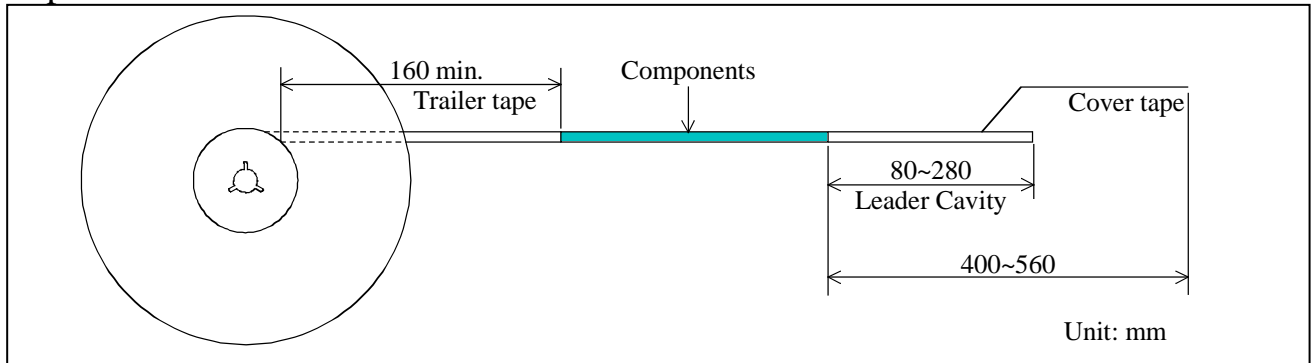
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Dimensions of Tape & Reel unit: mm

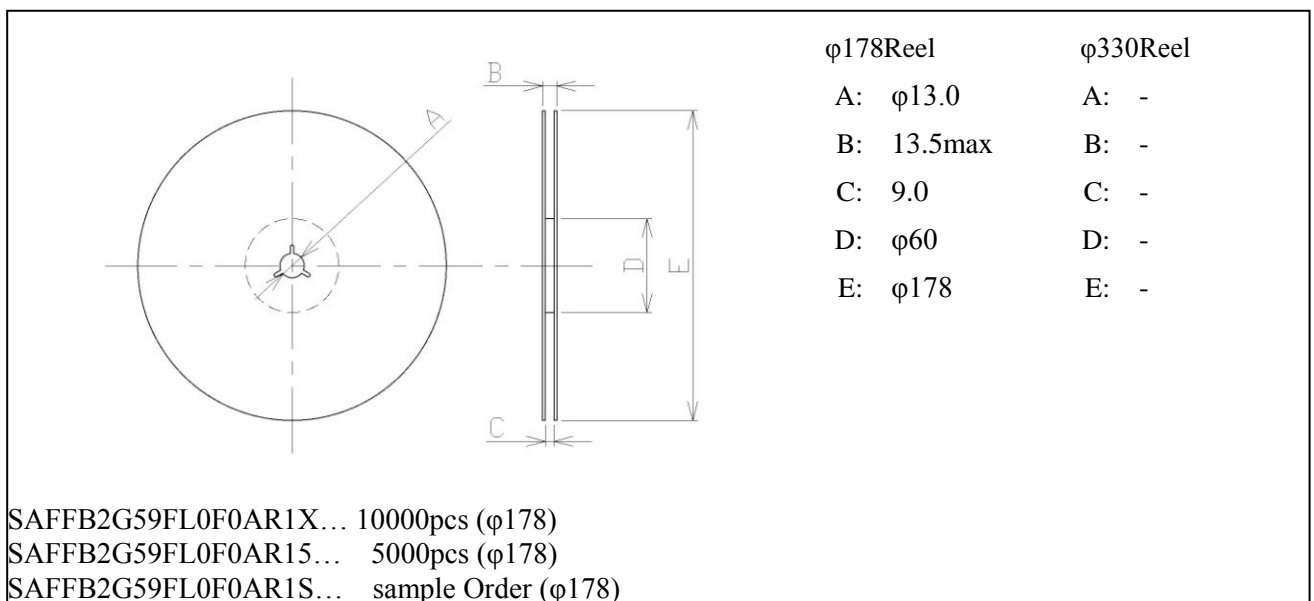
Carrier Tape



Tape



Reel



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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)

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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.

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Important Notice (2/2)

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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.

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The product shall not be used in any other application/model than that of claimed to Murata.

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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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