



Datasheet of SAW Device

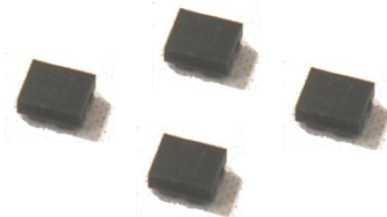
SAW Single Filter

for Band20 / Unbalanced / 5pin /1109

Murata PN: SAFFB806MAA0F0A

■ Feature

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

Please also read caution at the end of this document.

SAFFB806MAA0F0A (Band20 / Unbalanced / 5pin / 1109)

Revision No.	Date	Description
SAFFB806MAA0F0A_rev. A	Jan-10-2013	■ Initial Release
SAFFB806MAA0F0A_rev. B	Aug-07-2013	■ Updated Version
SAFFB806MAA0F0A_rev. C	Oct-21-2013	■ Updated Spec

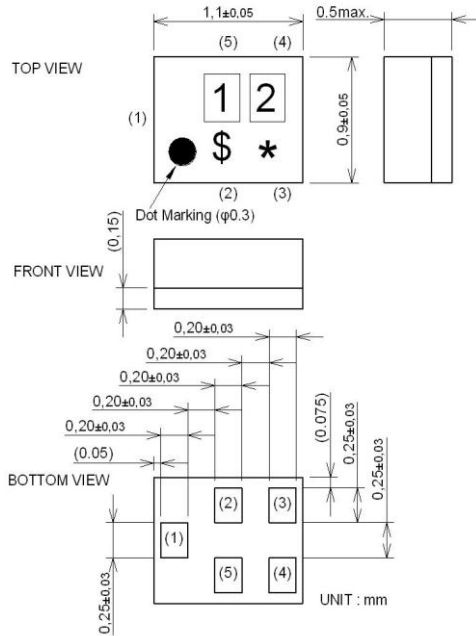
- Operating temperature : -20 to +85 deg.C
- Storage temperature : -40 to +85 deg.C
- Input Power : +15 dBm 2000 h
- D.C. Voltage between the terminals : 3V (25+/-2 deg.C)
- Minimum Resistance between the terminals : 10M ohm
- RoHS compliance : Yes

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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 : X

2 : Y

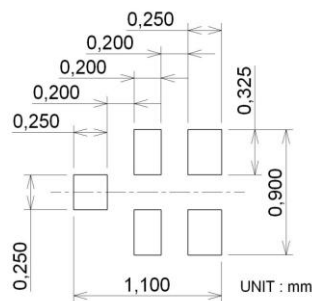
Terminal Number

(1) :Unbalance Port

(4) :Unbalance Port

Others : GND.

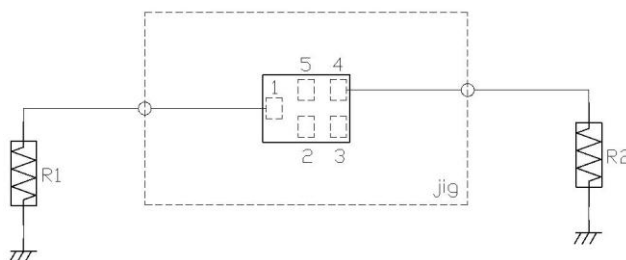
Land Pattern



Measurement Circuit (Top View)

R1 : 50 ohm

R2 : 50 ohm



SAFFB806MAA0F0A (Band20 / Unbalanced / 5pin / 1109)

Electrical Characteristic < Single Filter >

Matching Impedance (nominal)

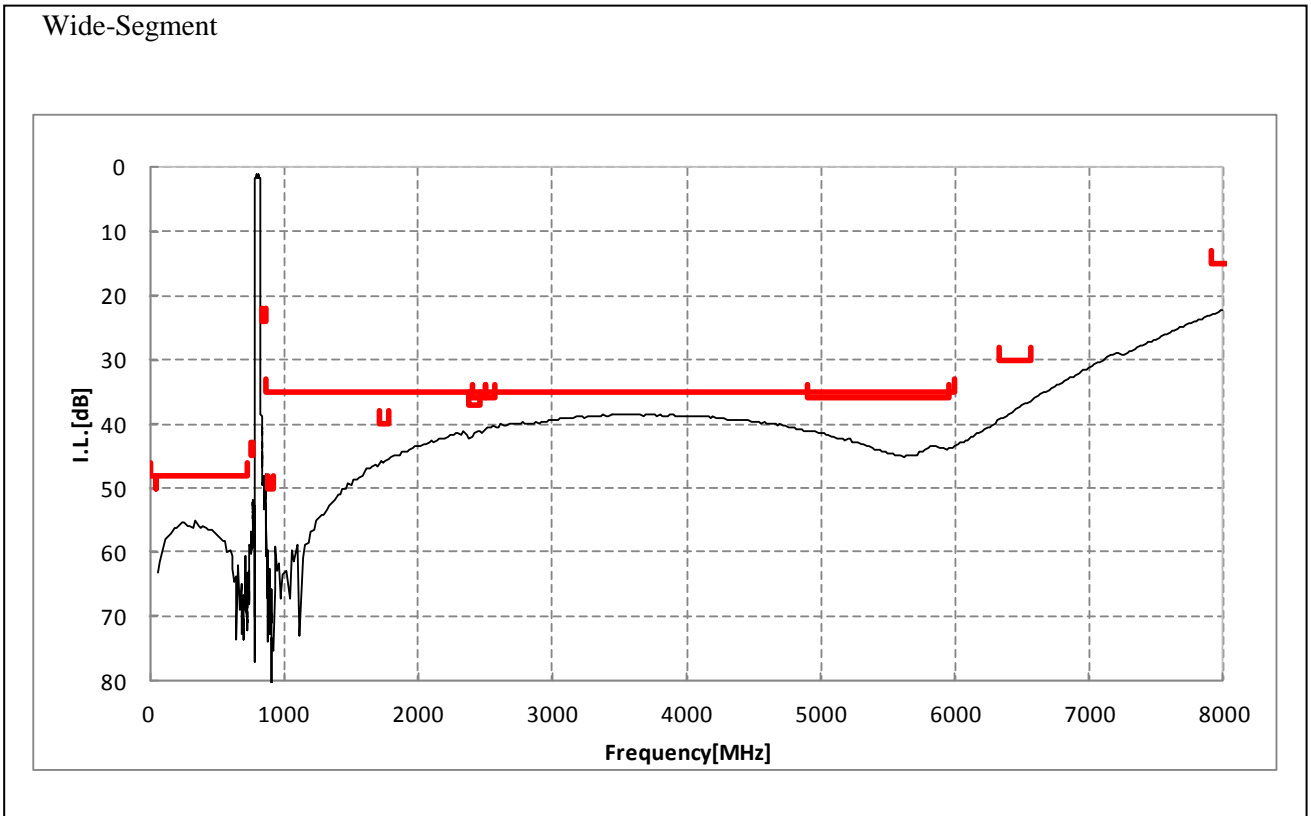
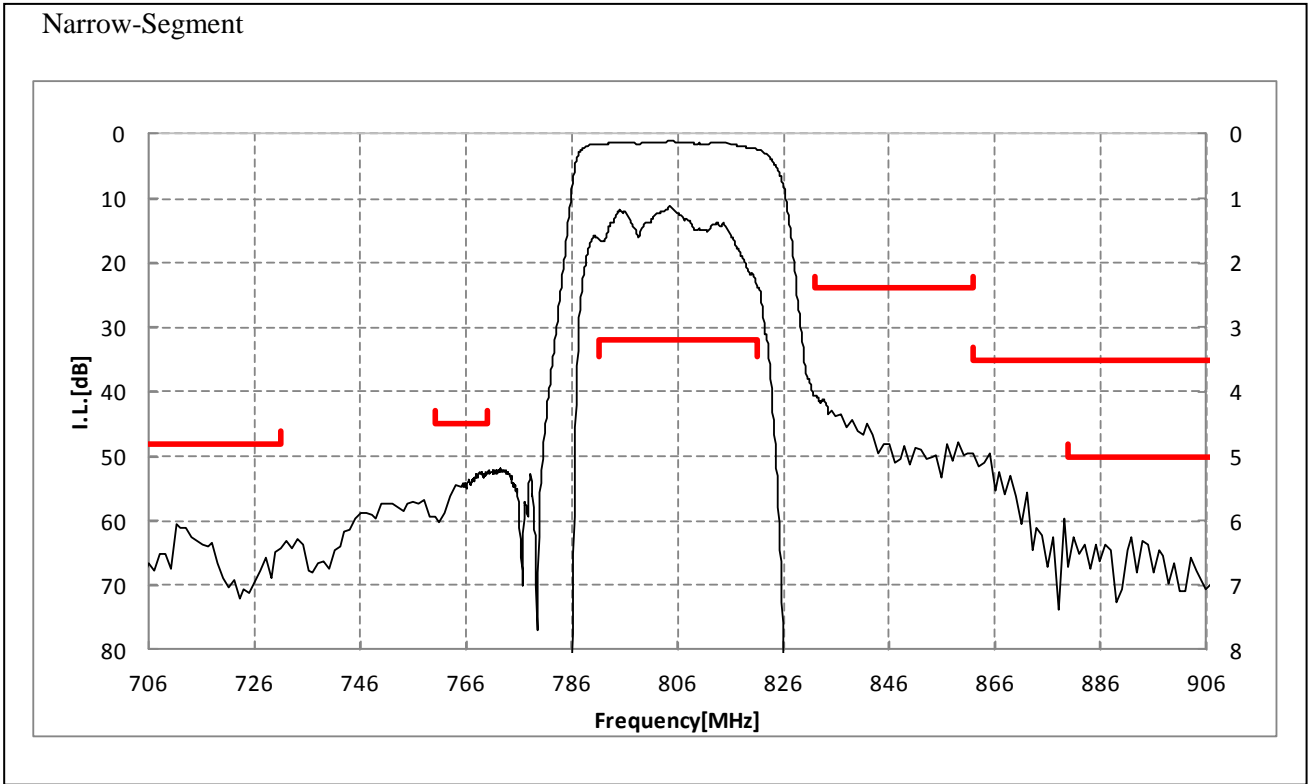
- :Unbalance Port : 50 ohm
- :Unbalance Port : 50 ohm

Item	Characteristics (-20 to +85 deg.C)			Unit	Note
	min.	typ.	max.		
	Center Frequency		806		
Insertion Loss	791. to 821. MHz	2.2	3.2	dB	
	791. to 821. MHz	2.2	2.5	dB	+23 to +27deg.C
Ripple Deviation	791. to 821. MHz	1.1	2.1	dB	
VSWR	791. to 821. MHz	1.6	2.0		
Absolute Attenuation	1. to 731. MHz	48	54	dB	
	41. MHz	50	65	dB	RX - TX
	760. to 770. MHz	45	52	dB	
	832. to 862. MHz	24	38	dB	TX
	832. to 862. MHz	36	38	dB	+23 to +27deg.C
	862. to 6000. MHz	35	38	dB	
	880. to 915. MHz	50	61	dB	B8 TX
	1710. to 1785. MHz	40	45	dB	B3 TX
	2373. to 2463. MHz	37	41	dB	3f
	2400. to 2500. MHz	36	40	dB	ISM2.4
	2500. to 2570. MHz	36	40	dB	B7 Tx CA
	4900. to 5950. MHz	36	41	dB	ISM 5G
	6328. to 6568. MHz	30	35	dB	8f
	7119. to 7389. MHz	23	27	dB	9f
	7910. to 8210. MHz	15	20	dB	10f
	8701. to 9031. MHz	11	15	dB	11f
	9492. to 9852. MHz	10	14	dB	12f
	10283. to 10673. MHz	11	15	dB	13f
	11074. to 11494. MHz	12	16	dB	14f
	11865. to 12315. MHz	13	18	dB	15f
12656. to 12750. MHz	14	20	dB	16f	

* Typical value at 25±2deg.C

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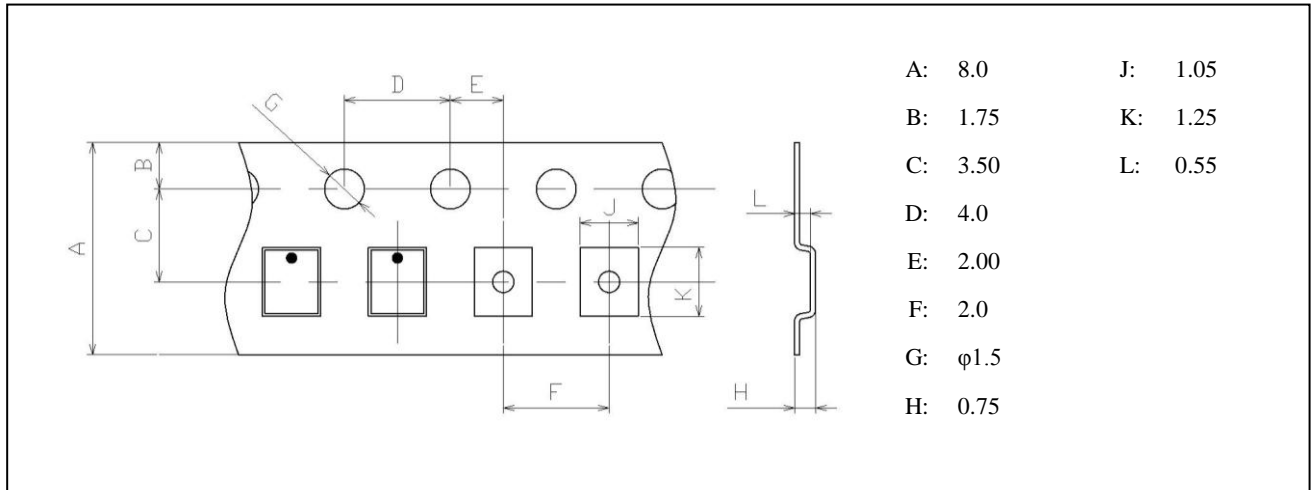
Electrical Characteristic
< Single Filter >



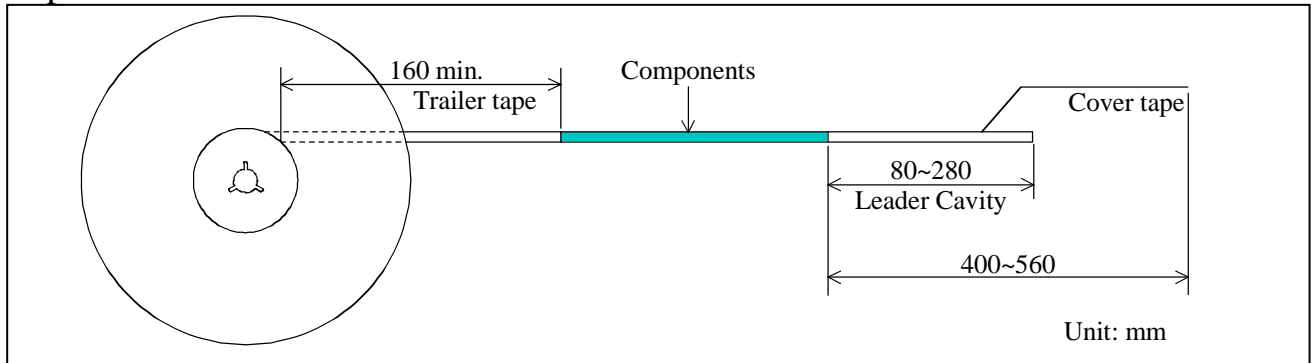
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Dimensions of Tape & Reel unit: mm

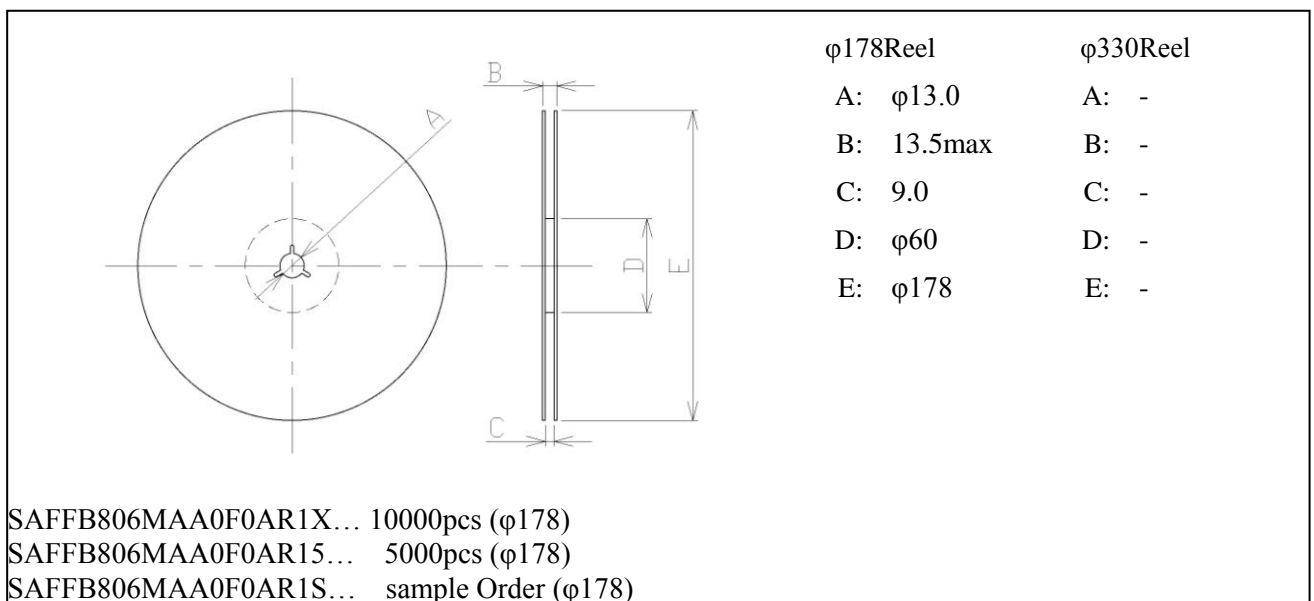
Carrier Tape



Tape



Reel



SAFFB806MAA0F0A (Band20 / Unbalanced / 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)

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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.

SAFFB806MAA0F0A (Band20 / Unbalanced / 5pin / 1109)

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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