



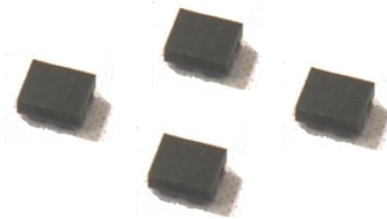
Datasheet of SAW Device

SAW Single Filter

for Band12 / Unbalanced / 5pin /1109

Murata PN: SAFFB737MAA0F0A

■ Feature



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

Please also read caution at the end of this document.

SAFFB737MAA0F0A (Band12 / Unbalanced / 5pin / 1109)

Revision No.	Date	Discription
SAFFB737MAA0F0A_rev. A	Jan-11-2013	■ Initial Release
SAFFB737MAA0F0A_rev. B	Oct-11-2013	■ Updated Electrical Characteristic
SAFFB737MAA0F0A_rev. C	Nov-22-2013	■ Updated for MP

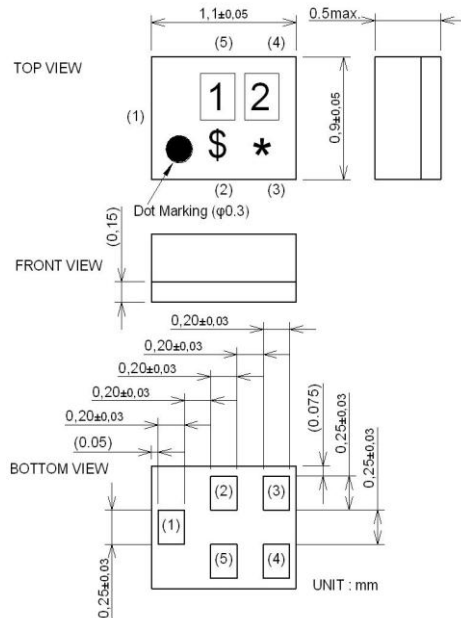
- Operating temperature : -30 to +85 deg.C
- Storage temperature : -40 to +85 deg.C
- Input Power : +15 dBm 2000 h
- D.C. Volatage between the terminals : 3V (25+/-2 deg.C)
- Minimum Resistance between the terminals : 10M ohm
- RoHS compliance : Yes

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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 : U

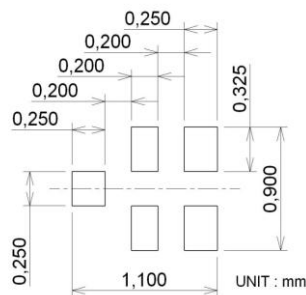
Terminal Number

(1) : Unbalance Port

(4) : Unbalance Port

Others : GND.

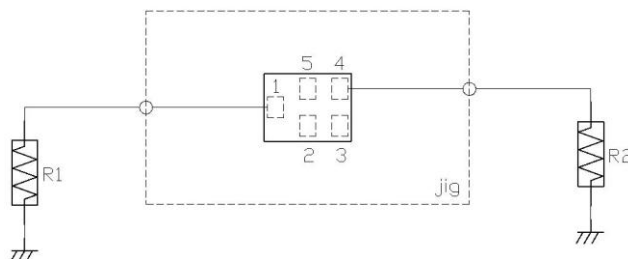
Land Pattern



Measurement Circuit (Top View)

R1 : 50 ohm

R2 : 50 ohm



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Electrical Characteristic < Single Filter >

Matching Impedance (nominal)

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

Item	Characteristics (-30 to +85 deg.C)			Unit	Note
	min.	typ.	max.		
Center Frequency		737.5		MHz	
Insertion Loss	729. to 746. MHz	1.9	2.5	dB	
	729. to 746. MHz	1.9	2.4	dB	-20 to +85deg.C
	729. to 746. MHz	1.9	2.2	dB	+23 to +27deg.C
Ripple Deviation	729. to 746. MHz	0.6	1.5	dB	
VSWR	729. to 746. MHz	1.8	2.0		
Absolute Attenuation	1. to 699. MHz	40	60	dB	
	30. MHz	50	72	dB	Rx-Tx
	699. to 716. MHz	45	52	dB	Tx
	716. to 722. MHz	12	31	dB	U700 Tx Jammer
	722. to 727. MHz	1	2.1	dB	Cell Tx Jammer, IM2
	776. to 793. MHz	31	38	dB	Upper 700 MHz Tx Jammer
	793. to 805. MHz	35	49	dB	
	814. to 6000. MHz	24	30	dB	
	1710. to 1755. MHz	43	49	dB	B4 Tx CA
	1850. to 1910. MHz	41	47	dB	B2 Tx CA
	2187. to 2238. MHz	40	44	dB	3f
	2400. to 2500. MHz	39	44	dB	ISM2.4
	4900. to 5950. MHz	25	31	dB	ISM 5G
	6561. to 6714. MHz	18	24	dB	9f
	7290. to 7460. MHz	12	17	dB	10f
	8019. to 8206. MHz	5	11	dB	11f
	8748. to 8952. MHz	5	9	dB	12f
	9477. to 9698. MHz	6	11	dB	13f
	10206. to 10444. MHz	8	12	dB	14f
	10935. to 11190. MHz	9	13	dB	15f
	11664. to 11936. MHz	10	14	dB	16f
	12393. to 12682. MHz	10	14	dB	17f

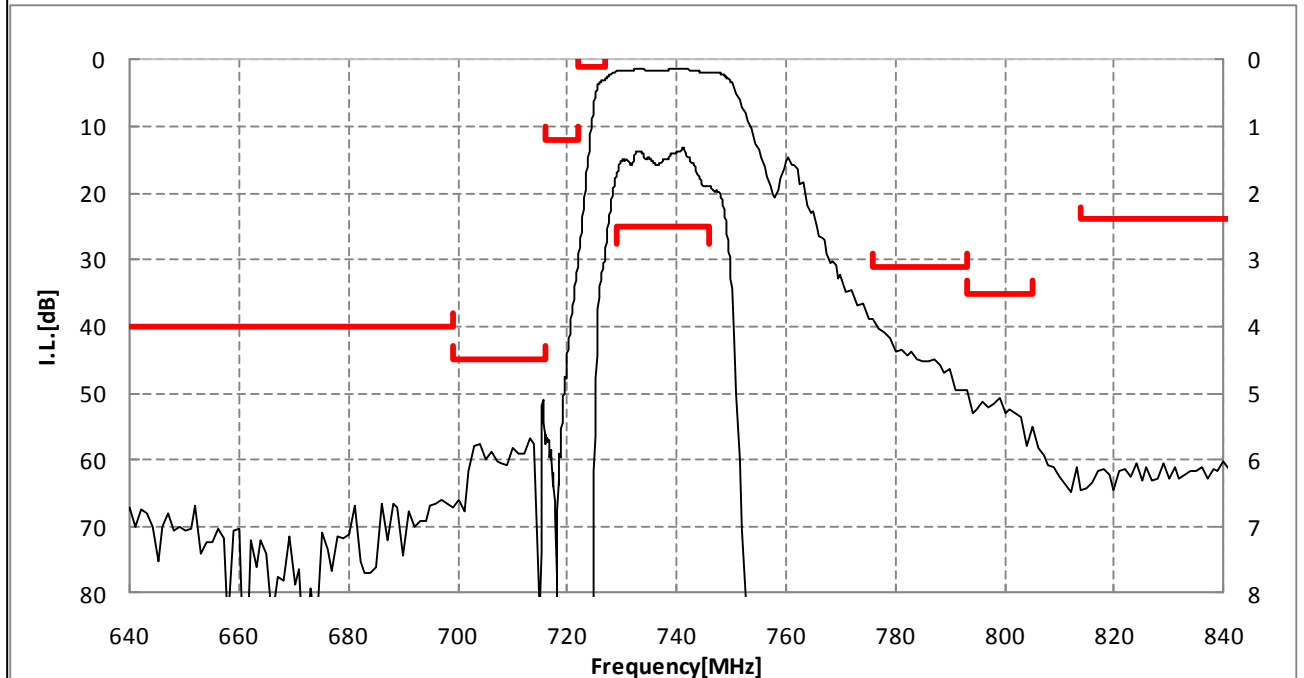
* Typical value at 25±2deg.C

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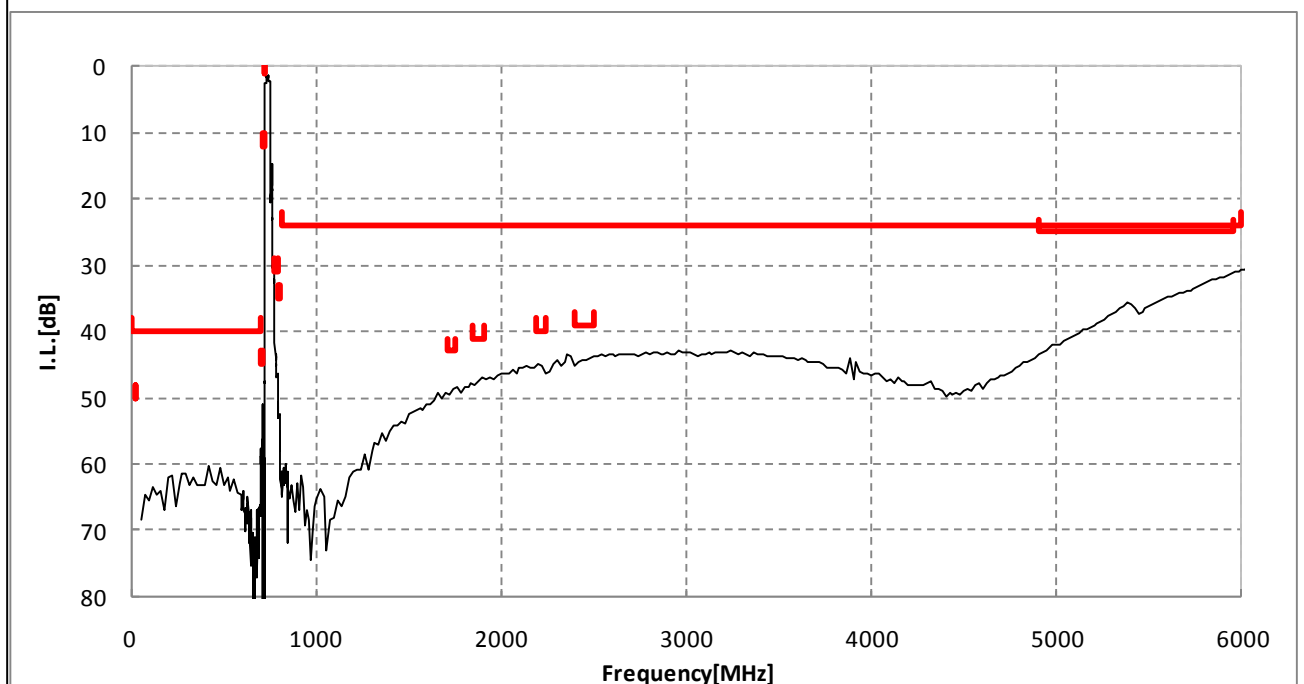
Electrical Characteristic

< Single Filter >

Narrow-Segment



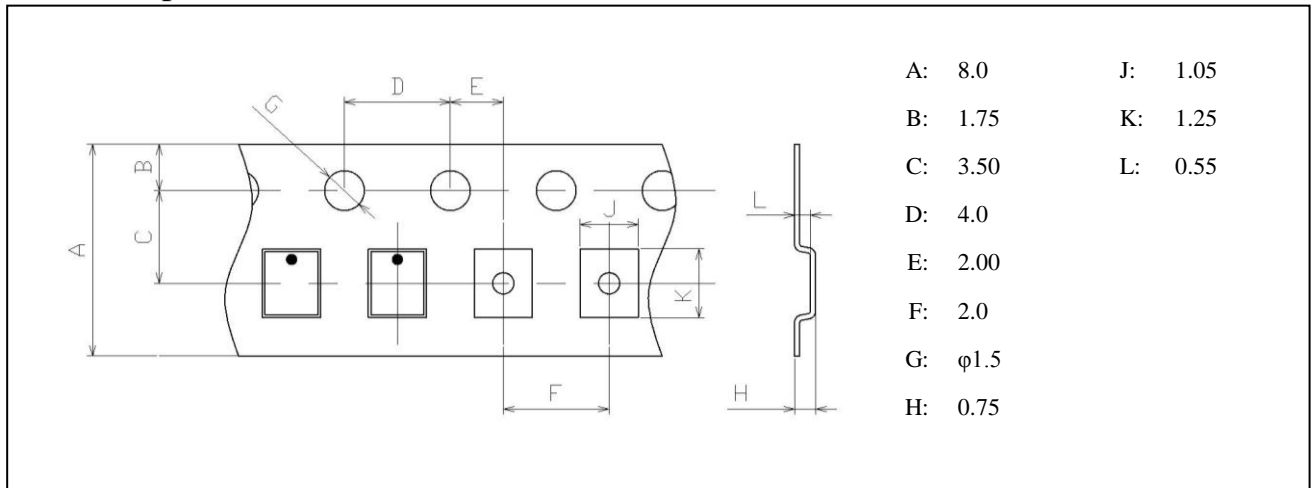
Wide-Segment



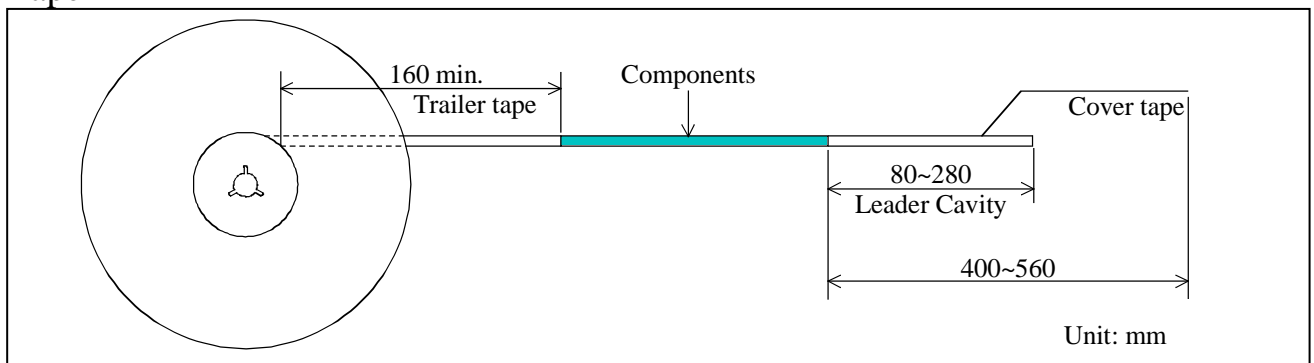
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Dimensions of Tape & Reel unit: mm

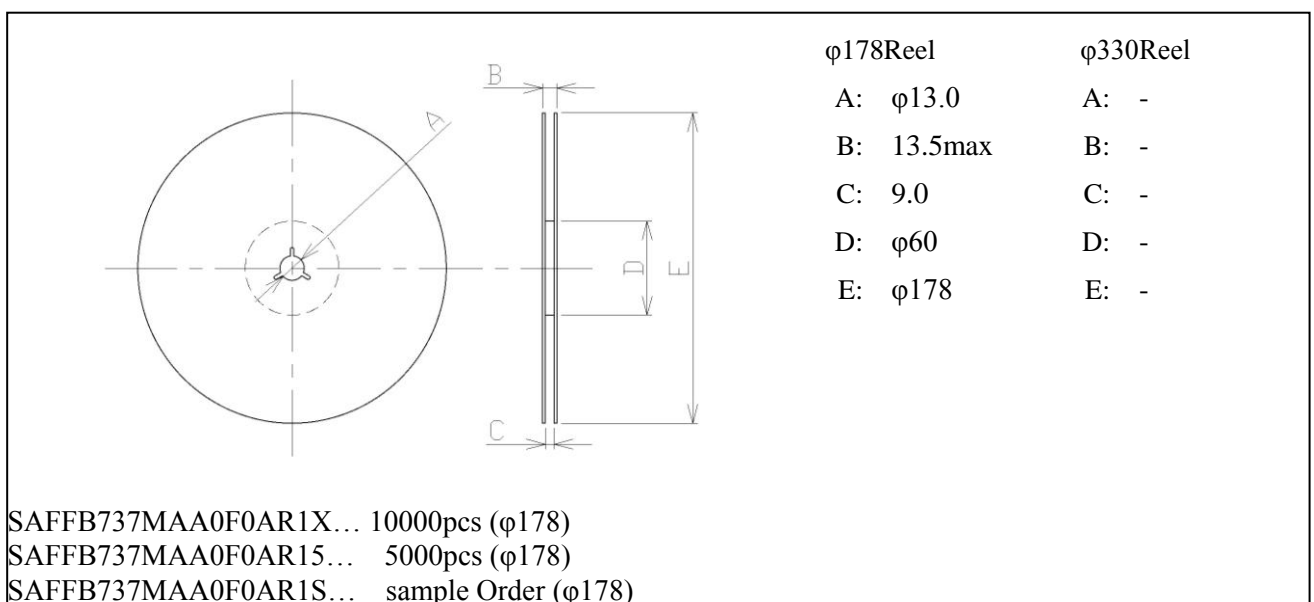
Carrier Tape



Tape



Reel



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Marking Code

Table A: Month Code

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

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.

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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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