Datasheet of SAW Device

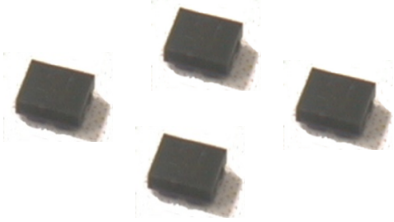
SAW Single Filter

for Band12 / Unbalanced / 5pin /1109

Murata PN: SAFFB737MAA0F0A

■ Feature

- For Diversity
- Small Size



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)

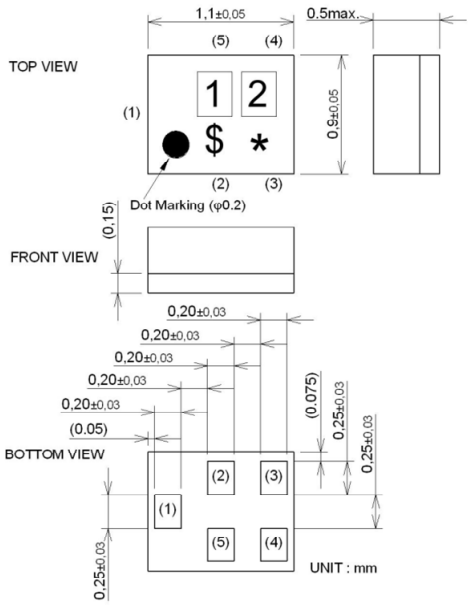
Revision Number	Date	Description
SAFFB737MAA0F0A_rev. A	Jan-11-2013	■ Initial Release
SAFFB737MAA0F0A_rev. B	Oct-11-2013	■ Updated Electrical Characteristic
SAFFB737MAA0F0A_rev. C	Nov-22-2013	■ Updated for MP
SAFFB737MAA0F0A_rev. D	Aug-19-2016	■ Updated General Information
SAFFB737MAA0F0A_rev. E	Jul-28-2017	■ Updated General Information

- 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
- ESD (ElectroStatic Discharge) sensitive device

Package Dimensions & Recommended Land Pattern

unit: mm

Dimensions

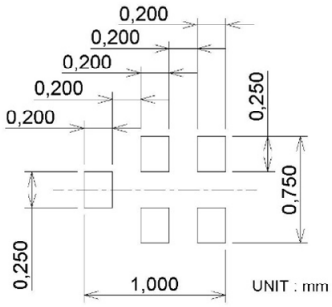


Marking : Laser Printing
* : Month code(Refer to the table A)
$: Date code(Refer to the table B)
1 : X
2 : U

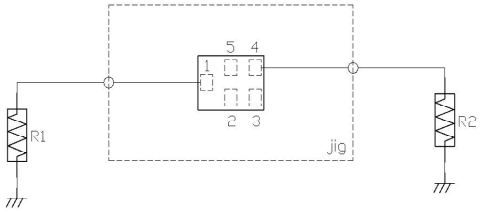
Terminal Number
(1) : Unbalanced port
(4) : Unbalanced port
Others : GND

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

Land Pattern



Measurement Circuit (Top Thru View)



R1 : 50 ohm	
R2 : 50 ohm	

SAFFB737MAA0F0A (Band12 / Unbalanced / 5pin / 1109)

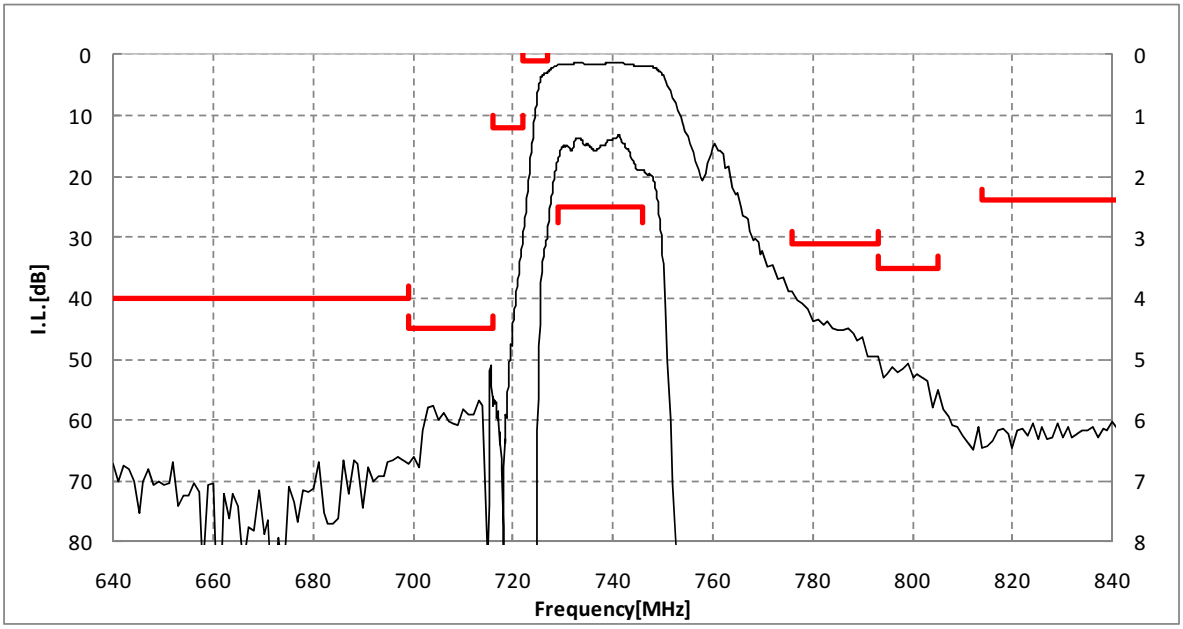
Electrical Characteristic < Single Filter >

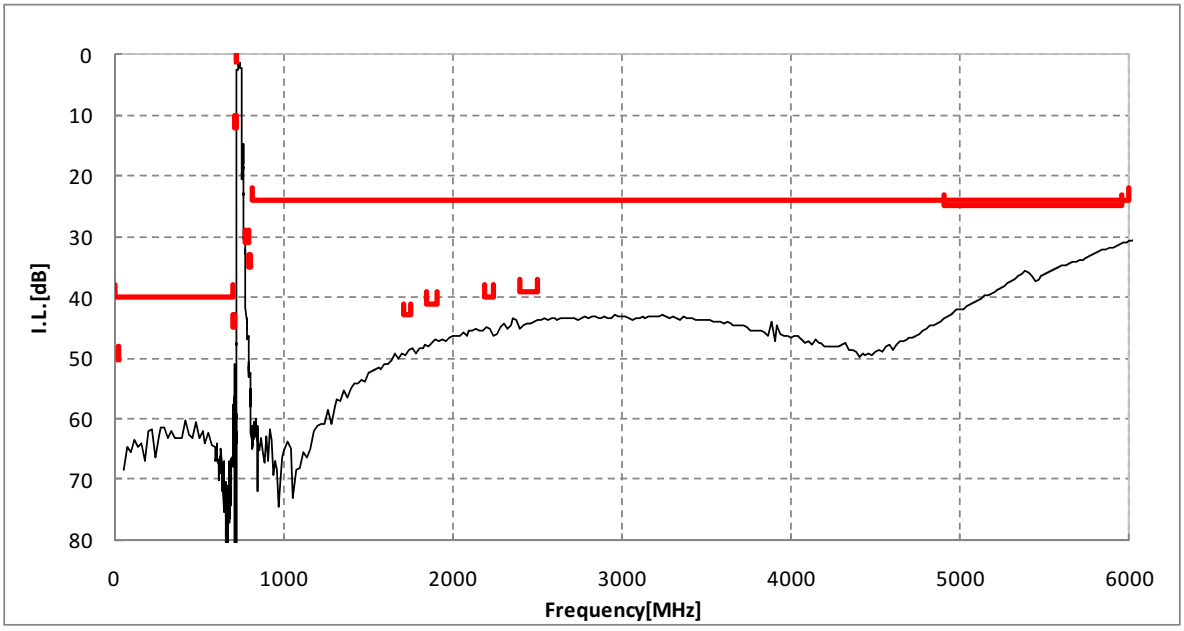
Item					Characteristics (-30 to +85 deg.C)			Unit	Note
					min.	typ.*	max.		
Center Frequency						737.5		MHz	
Insertion Loss	729.	to	746.	MHz		1.9	2.5	dB	
	729.	to	746.	MHz		1.9	2.4	dB	-20 to +85deg.C
	729.	to	746.	MHz		1.9	2.2	dB	+23 to +27deg.C
Ripple Deviation	729.	to	746.	MHz		0.6	1.5	dB	
VSWR	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	1.0	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	5.0	11.0		dB	11f
	8748.	to	8952.	MHz	5.0	9.0		dB	12f
	9477.	to	9698.	MHz	6.0	11.0		dB	13f
	10206.	to	10444.	MHz	8.0	12.0		dB	14f
	10935.	to	11190.	MHz	9.0	13.0		dB	15f
	11664.	to	11936.	MHz	10	14		dB	16f
	12393.	to	12682.	MHz	10	14		dB	17f

* Typical value at 25±2deg.C

Electrical Characteristic

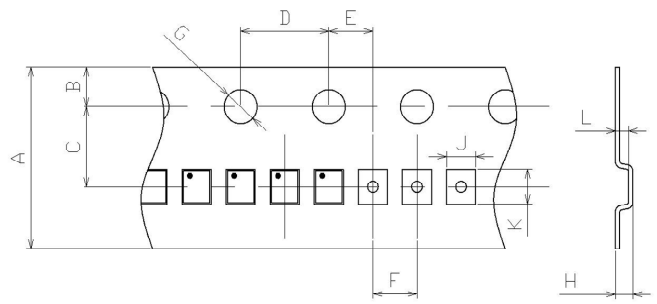
< Single Filter >





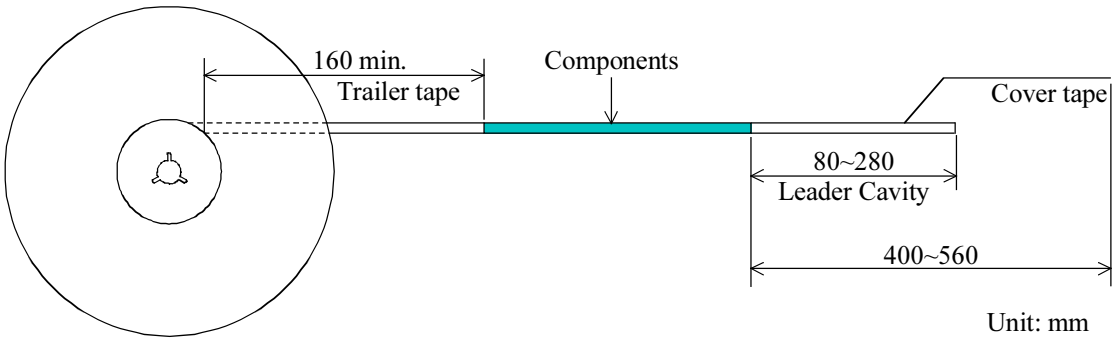
Dimensions of Tape & Reel unit: mm

Carrier Tape

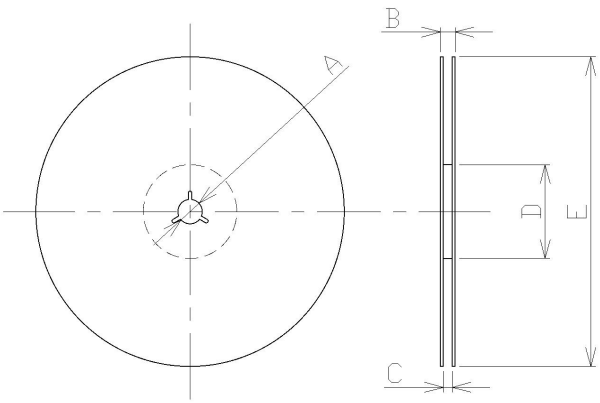


A:	8.0	J:	1.05
B:	1.75	K:	1.25
C:	3.50	L:	0.55
D:	4.0		
E:	2.00		
F:	2.0		
G:	φ1.5		
H:	0.75		

Tape



Reel



φ178Reel		φ330Reel	
A:	φ13.0	A:	-
B:	13.5max	B:	-
C:	9.0	C:	-
D:	φ60	D:	-
E:	φ178	E:	-

SAFFB737MAA0F0AR1X… 10000pcs (φ178)
SAFFB737MAA0F0AR1S… Sample Order (φ178/330)

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

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.
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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 serge voltage.

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