Datasheet of SAW Device
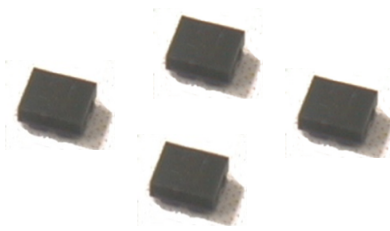
SAW Single Filter
for Band29 (FLO) / Unbalanced / 5pin /1109

Murata PN: **SAFFB722MAA0F0A**

■ Feature
➢ Low Insertion Loss
➢ Small Size 1.1 x 0.9 mm

Revision Number	Date	Description
SAFFB722MAA0F0A_rev. A	Dec-12-2012	■ Initial Release
SAFFB722MAA0F0A_rev. B	Feb-13-2013	■ Updated for ES2.0
SAFFB722MAA0F0A_rev. C	May-24-2013	■ Updated Final Version
SAFFB722MAA0F0A_rev. D	Oct-25-2013	■ Updated the Spec of VSWR
SAFFB722MAA0F0A_rev. E	Sep-09-2016	■ Updated General Information
SAFFB722MAA0F0A_rev. F	Jun-13-2017	■ 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

TOP VIEW

1.1±0.05
(5) (4)
0.5max.
(1)
0.9±0.05

1 2
$ *

(2) (3)
Dot Marking (φ0.2)

FRONT VIEW
(0.15)

0,20±0.03
0,20±0.03
0,20±0.03
0,20±0.03
0,20±0.03
(0.05)
BOTTOM VIEW
(0.075)
0.25±0.03
0.25±0.03

(2) (3)
(1)
(5) (4)
0.25±0.03
UNIT : mm
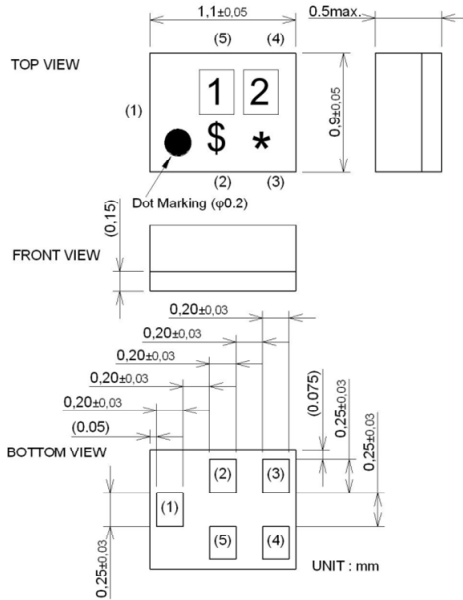
Marking : Laser Printing
  * : Month code(Refer to the table A)
  $: Date code(Refer to the table B)
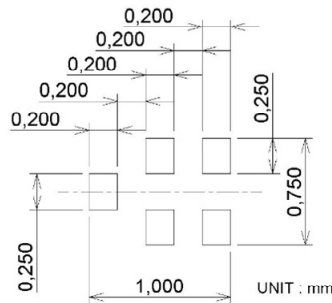 1 : Y
  2 : 3

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

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

Land Pattern

0,200
0,200
0,200
0,200
0,200
0.250
0.750
0.250
1,000
UNIT : mm

Measurement Circuit (Top Thru View)

R1
5 4
1
2 3
jig
R2
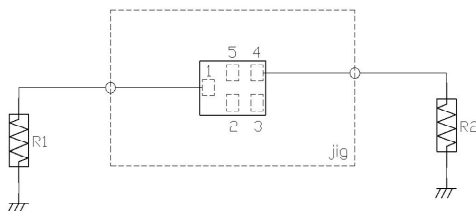
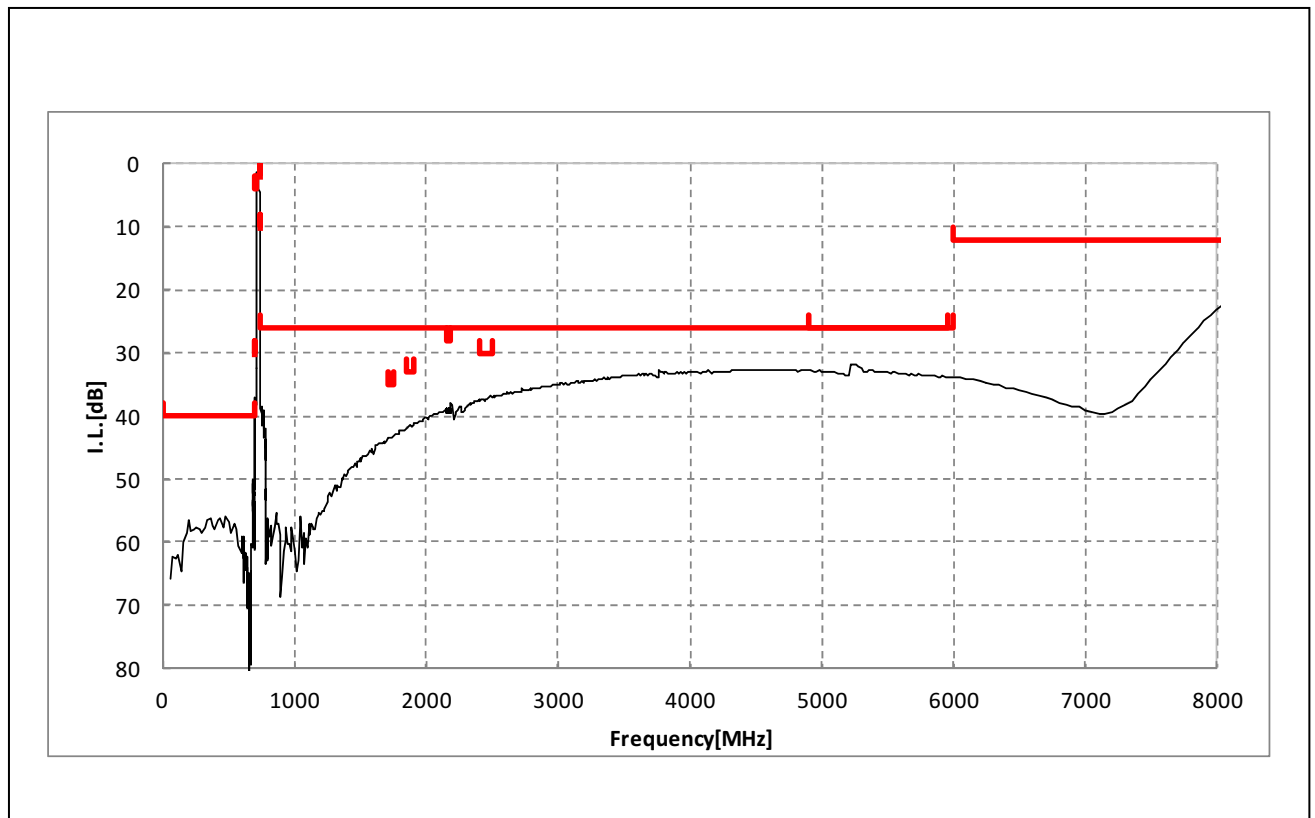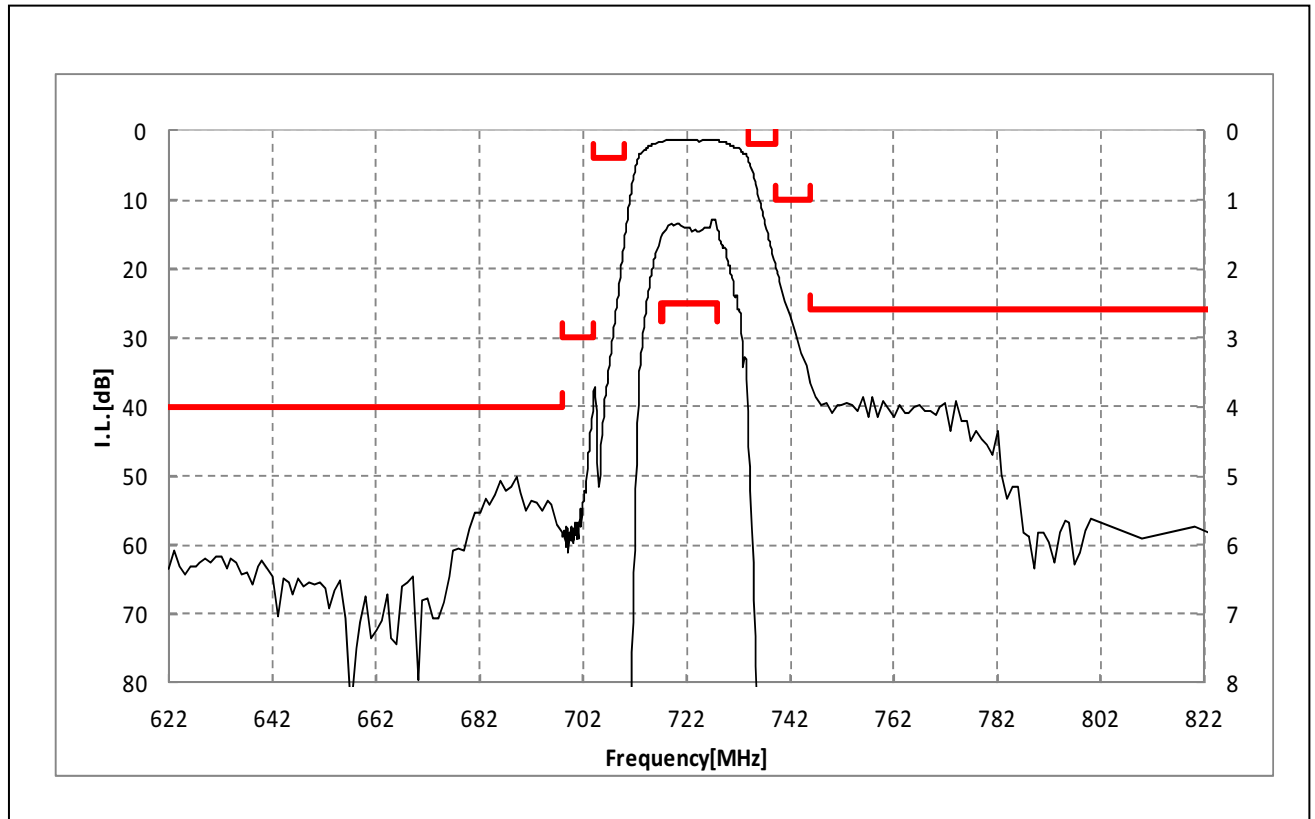| R1 : 50 ohm	
R2 : 50 ohm	

SAFFB722MAA0F0A   (Band29 (FLO) / Unbalanced / 5pin / 1109)

Electrical Characteristic < Single Filter >

Item					Characteristics (-30 to +85 deg.C)			Unit	Note
					min.	typ.*	max.		
Center Frequency						722.5		MHz	
Insertion Loss	717.	to	728.	MHz		1.7	2.5	dB	
	717.	to	728.	MHz		1.7	2.0	dB	+23 to +27deg.C
	717.3	to	727.8	MHz		1.7	2.5	dB	
	717.3	to	727.8	MHz		1.7	2.0	dB	+23 to +27deg.C
Ripple Deviation	717.	to	728.	MHz		0.3	1.0	dB	Any 5MHz
	717.	to	728.	MHz		0.3	0.5	dB	+23 to +27deg.C, Any 5MHz
	717.3	to	727.8	MHz		0.3	1.0	dB	Any 5MHz
	717.3	to	727.8	MHz		0.3	0.5	dB	+23 to +27deg.C, Any 5MHz
VSWR	717.	to	728.	MHz		1.5	2.0		
	717.3	to	727.8	MHz		1.5	2.0		
Absolute Attenuation	10.	to	698.	MHz	40	50		dB	
	739.	to	746.	MHz	10	20		dB	
	746.	to	6000.	MHz	26	31		dB	
	1710.	to	1755.	MHz	35	41		dB	B4 TX for CA
	1850.	to	1910.	MHz	33	39		dB	B2 TX for CA
	2151.8	to	2183.3	MHz	28	36		dB	3f
	2400.	to	2500.	MHz	30	36		dB	ISM2.4
	4900.	to	5950.	MHz	26	31		dB	ISM 5G
	6000.	to	12750.	MHz	12	20		dB	
	698.	to	704.	MHz	30	41		dB	Average over ch52
	704.	to	710.	MHz	4.0	10.0		dB	Average over ch53
	734.	to	739.	MHz	2.0	5.0		dB	Average

* 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

160 min.
Trailer tape
Components
Cover tape
80~280
Leader Cavity
400~560

Unit: mm

Reel

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

SAFFB722MAA0F0AR1X… 10000pcs (φ178)
SAFFB722MAA0F0AR1S…　Sample Order (φ178/330)
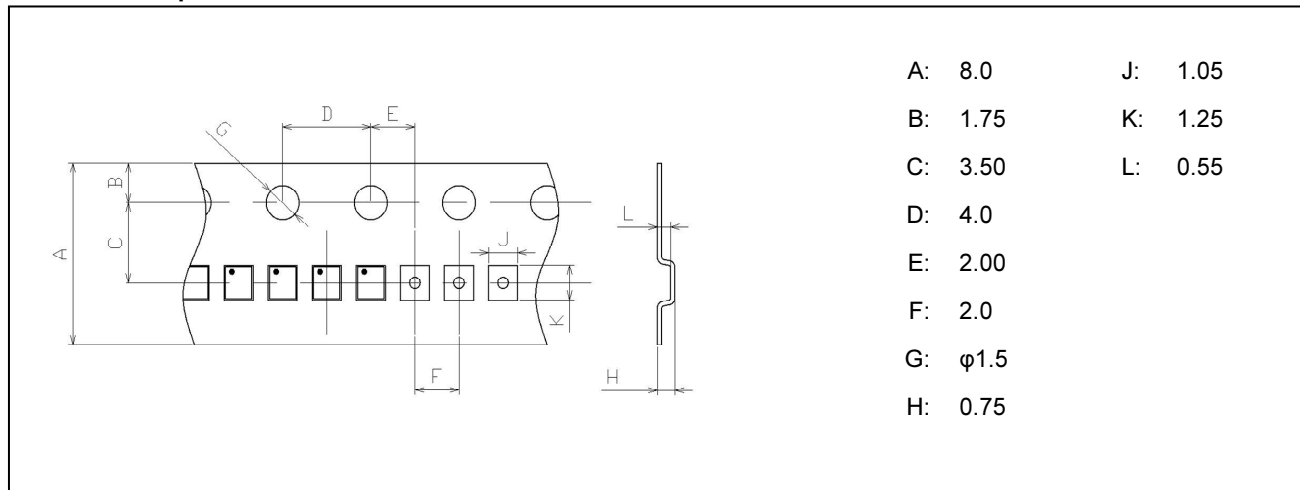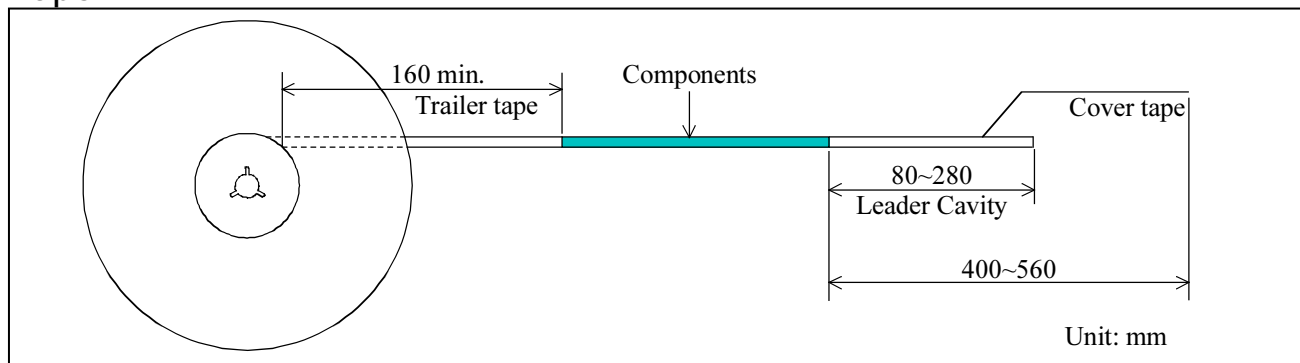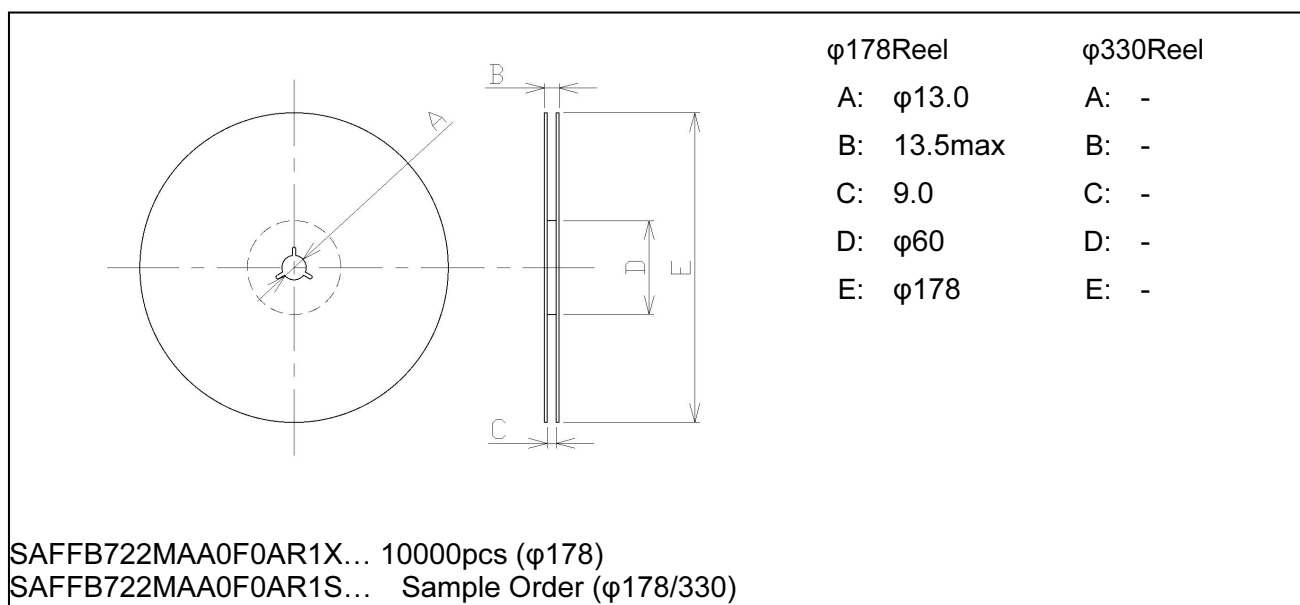
Marking Code

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	g	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

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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.

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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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