



Datasheet of SAW Device

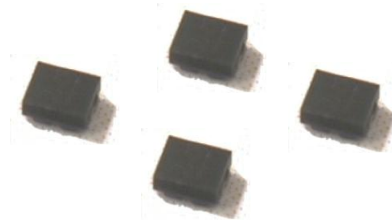
SAW Single Filter

for Band40 / Balanced / 5pin /1411

Murata PN: SAFEA2G35FC0F0A

■ Feature

- 100ohm Balance output impedance
- Low Insertion loss
- Full band support - 100MHz



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

Please also read caution at the end of this document.

SAFEA2G35FC0F0A (Band40 / Balanced / 5pin / 1411)

Revision No.	Date	Description
SAFEA2G35FC0F0A_rev. A	Nov-01-2012	■ Initial Release
SAFEA2G35FC0F0A_rev. B	Apr-05-2013	

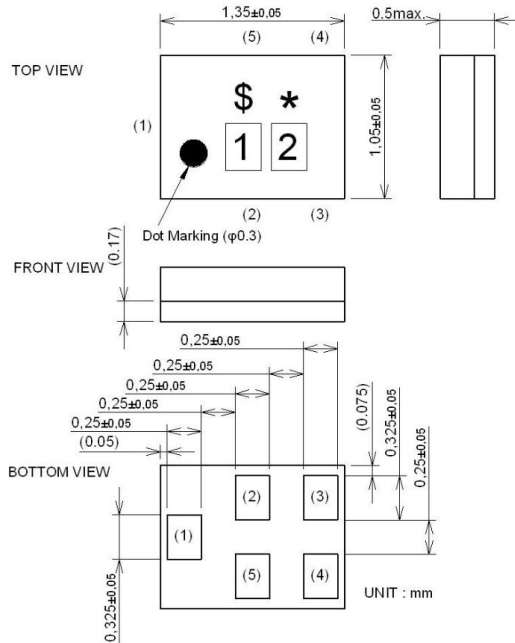
- Operating temperature : -30 to +85 deg.C
- Storage temperature : -40 to +85 deg.C
- Input Power : +10 dBm 8000 h
- D.C. Volatage between the terminals : 3V (25+/-2 deg.C)
- Minimum Resistance between the terminals : 10M ohm
- RoHS compliance : Yes

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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 : F

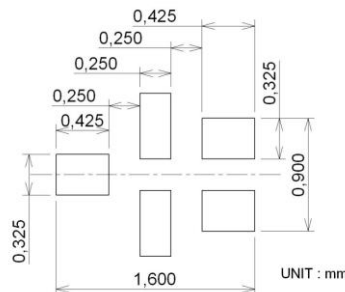
Terminal Number

(1) : Unbalance Port

(3)(4) : Balance Port

Others : GND.

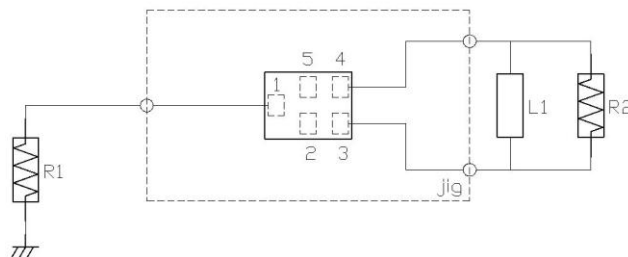
Land Pattern



Measurement Circuit (Top View)

R1 : 50 ohm

R2 : 100 ohm L1 : 14 nH(Ideal inductor)



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Electrical Characteristic < Single Filter >

Matching Impedance (nominal)

- : Unbalance Port : 50 ohm
- : Balance Port : 100 ohm // 14 nH(Ideal inductor)

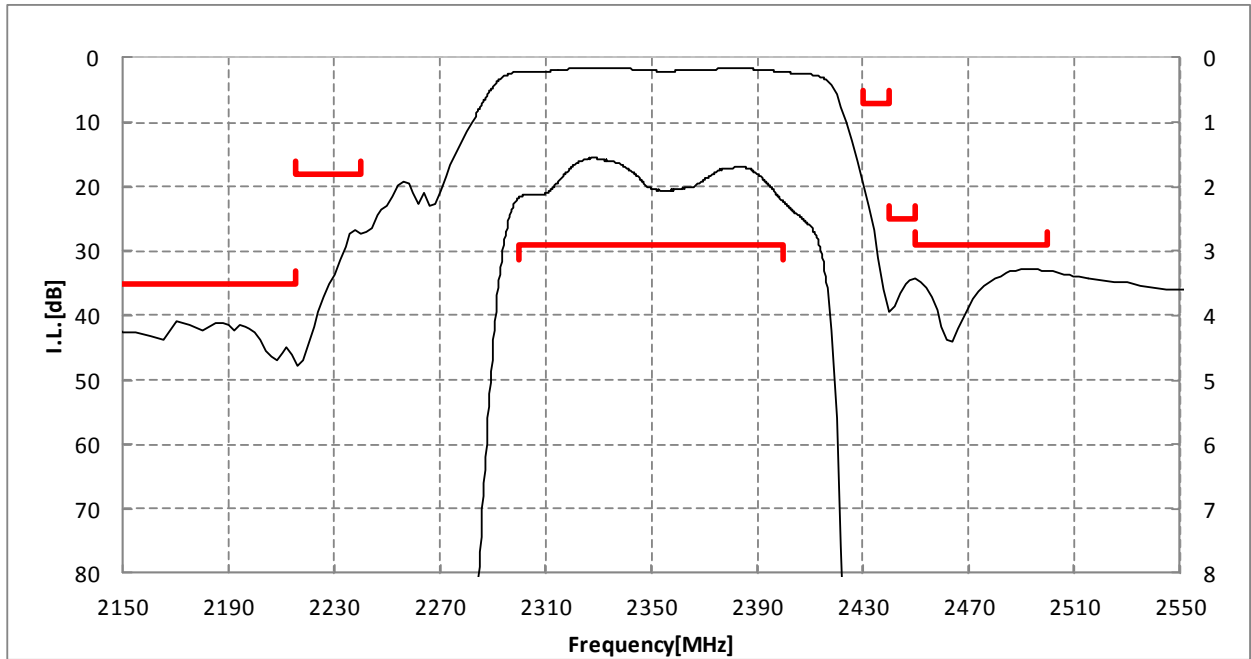
Item				Characteristics			Unit	Note
				(-30 to +85 deg.C)				
				min.	typ.	max.		
Center Frequency					2350		MHz	
Insertion Loss	2300.	to	2400. MHz		2.3	2.9	dB	
	2300.	to	2400. MHz		2.3	2.6	dB	+23 to +27deg.C
Ripple Deviation	2300.	to	2400. MHz		0.8	1.6	dB	
	2300.	to	2400. MHz		0.8	1.2	dB	+23 to +27deg.C
VSWR	2300.	to	2400. MHz		1.9	2.3		
	2300.	to	2400. MHz		1.9	2.2		+23 to +27deg.C
Amplitude Balance	2300.	to	2400. MHz		1.3	2	dB	
	2300.	to	2400. MHz		1.3	1.6	dB	+23 to +27deg.C
Phase Balance	2300.	to	2400. MHz		6	15	deg.	
	2300.	to	2400. MHz		6	10	deg.	+23 to +27deg.C
Absolute Attenuation	10.	to	1785. MHz	40	46		dB	
	1850.	to	2215. MHz	35	40		dB	
	2215.	to	2240. MHz	18	23		dB	
	2430.	to	2440. MHz	7	15		dB	
	2440.	to	2450. MHz	25	33		dB	
	2450.	to	2500. MHz	29	32		dB	
	4600.	to	4800. MHz	40	56		dB	
	4900.	to	5950. MHz	35	47		dB	
	6900.	to	7200. MHz	25	36		dB	
	7200.	to	12750. MHz	25	37		dB	

* Typical value at 25±2deg.C

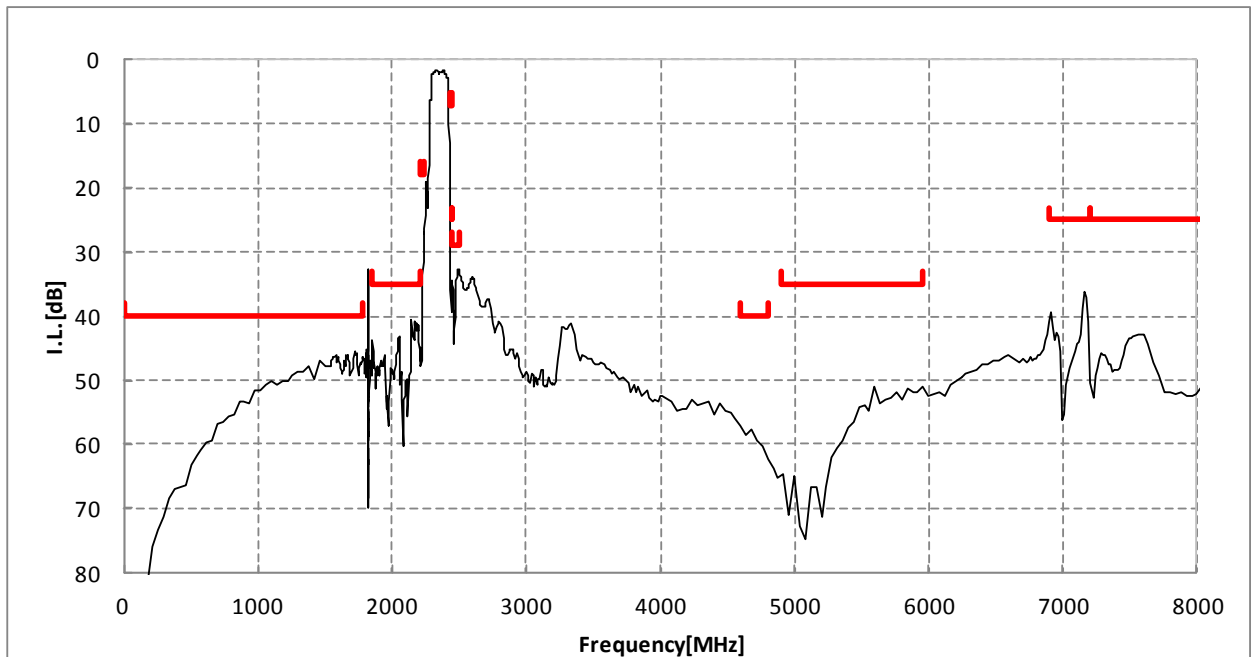
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Electrical Characteristic < Single Filter >

Narrow-Segment



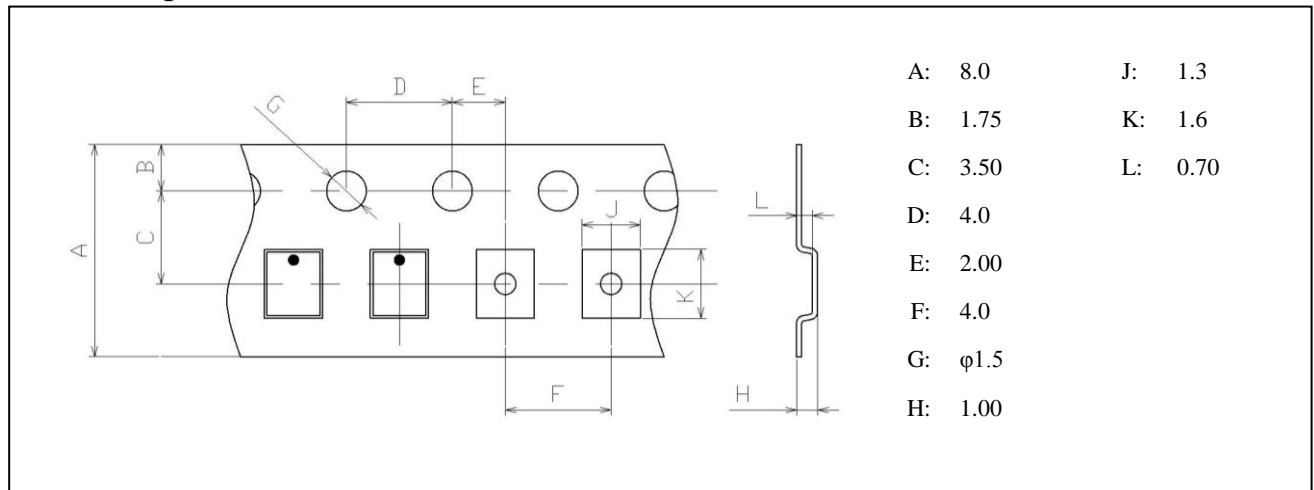
Wide-Segment



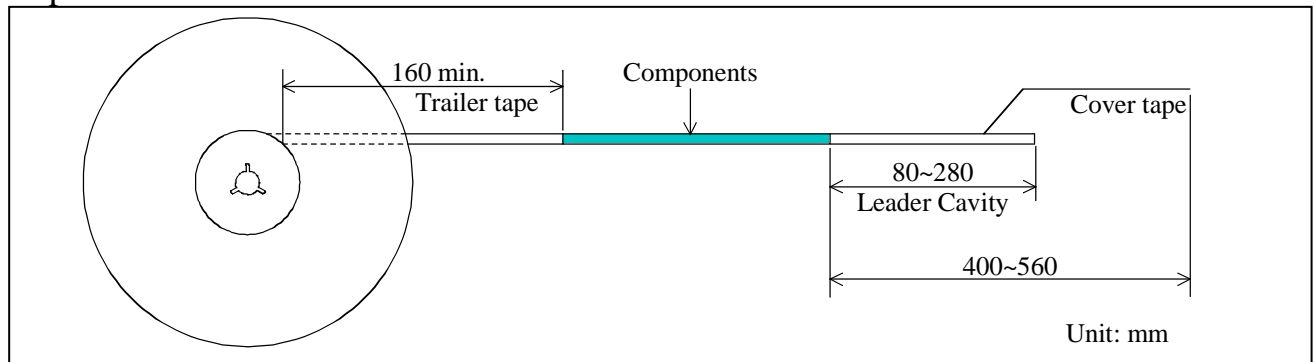
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Dimensions of Tape & Reel unit: mm

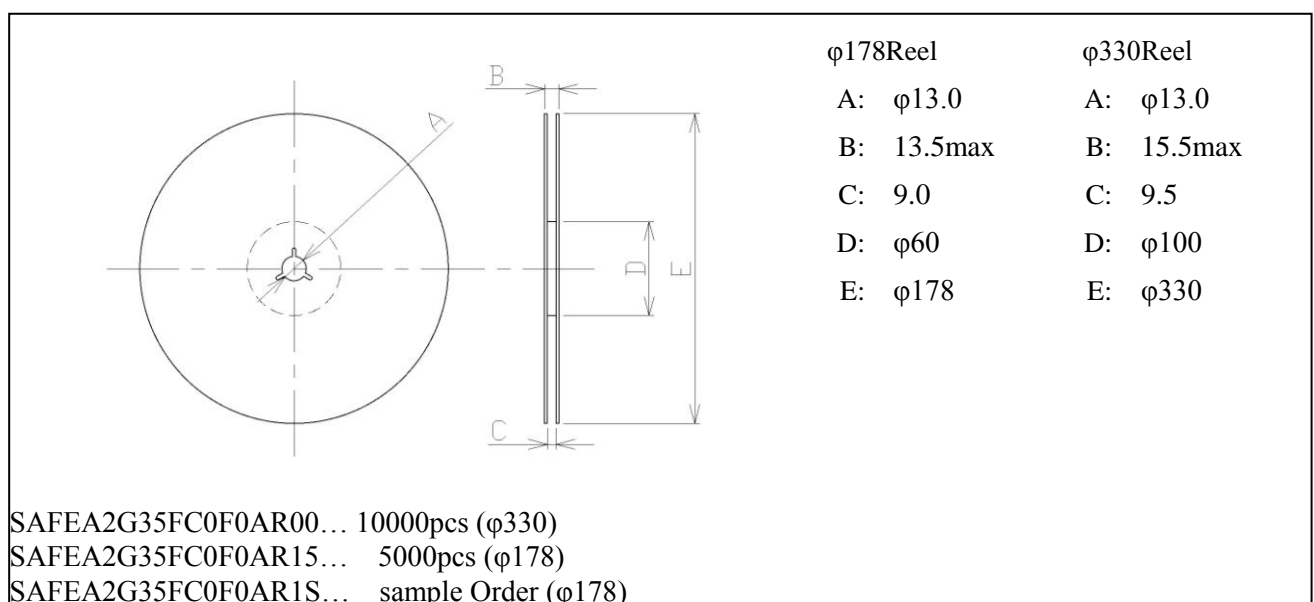
Carrier Tape



Tape



Reel



SAFEA2G35FC0F0A (Band40 / Balanced / 5pin / 1411)

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)

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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.

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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.

SAFEA2G35FC0F0A (Band40 / Balanced / 5pin / 1411)

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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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.

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In particular we disclaim liability for damages caused by

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- deviation or lapse in function of engineering sample,
- improper use of engineering samples.

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