



Datasheet of SAW Device

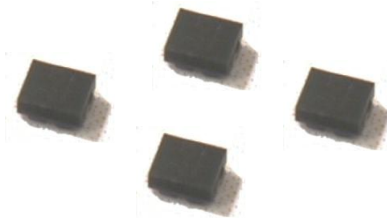
SAW Notch Filter

for N-DCS / Unbalanced / 5pin /1411

Murata PN: SACEA1G82TA0F0A

■ Feature

- Eliminate both CMCC & CU Freq.
- Low Insertion Loss for B34/39
- High Attenuation of ISM2.4



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

Please also read caution at the end of this document.

SACEA1G82TA0F0A (N-DCS / Unbalanced / 5pin / 1411)

Revision No.	Date	Discription
SACEA1G82TA0F0A_rev. A	Aug-08-2013	■ Initial Release / MP

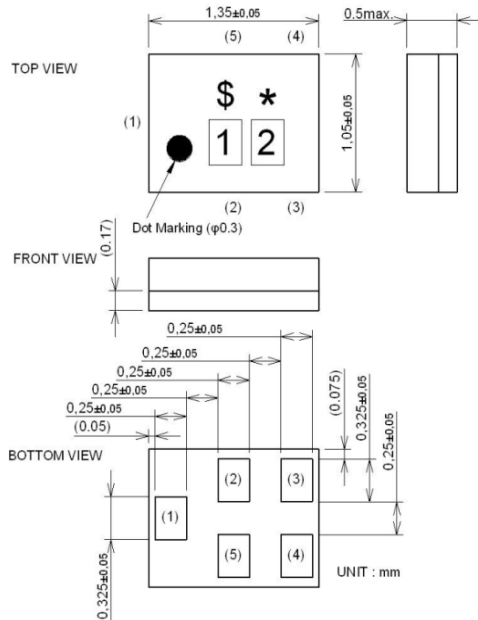
- Operating temperature : -30 to +85 deg.C
- Storage temperature : -40 to +85 deg.C
- Input Power : +30dBm 5000h for Passband(B34/39)
- D.C. Volatage between the terminals : 3V (25+/-2 deg.C)
- Minimum Resistance between the terminals : 10M ohm
- RoHS compliance : Yes

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Package Dimensions & Recommended Land Pattern

unit: mm

Dimensions



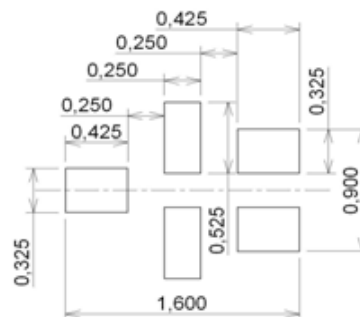
Marking : Laser Printing

- * : Month code(Refer to the table A)
- \$: Date code(Refer to the table B)
- 1 : Z
- 2 : 1

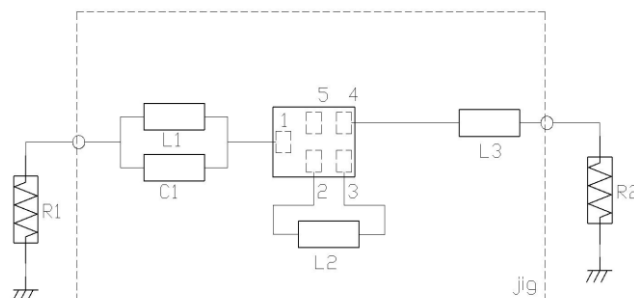
Terminal Number

- (1) : Unbalance Port(PA side/ANT side)
- (4) : Unbalance Port(ANT side/PA side)
- (2)(3) : Connected to coil
- (5) : GND.

Land Pattern



Measurement Circuit (Top View)



R1 : 50 ohm

R2 : 50 ohm

L1 : 2.7 nH

(LQW15AN2N7C00D)

L2 : 6.2 nH

(LQW15AN6N2C00D)

L3 : 2.7 nH

(LQW15AN2N7C00D)

C1 : 1.6 pF

(GRM0334C1E1R6BD01D)

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Electrical Characteristic < Low Freq. Filter >

Matching Impedance (nominal)

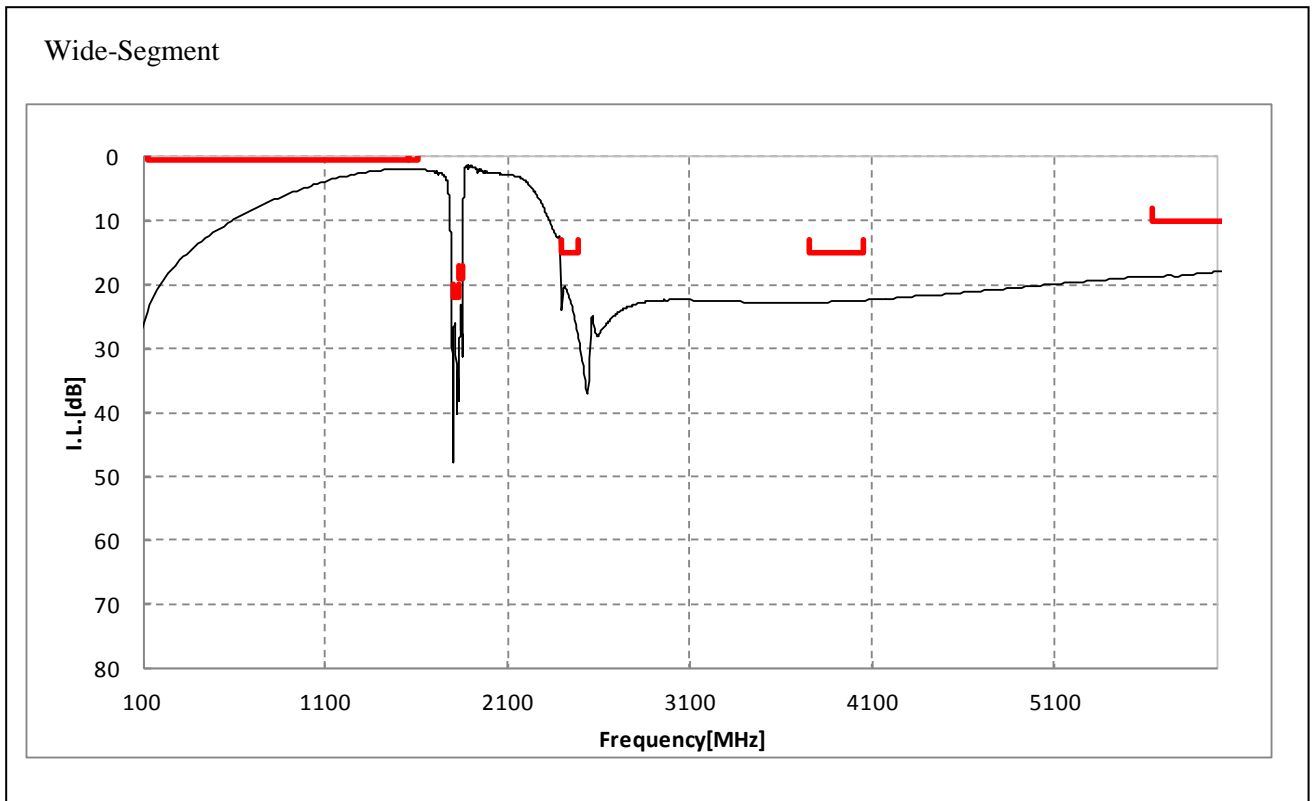
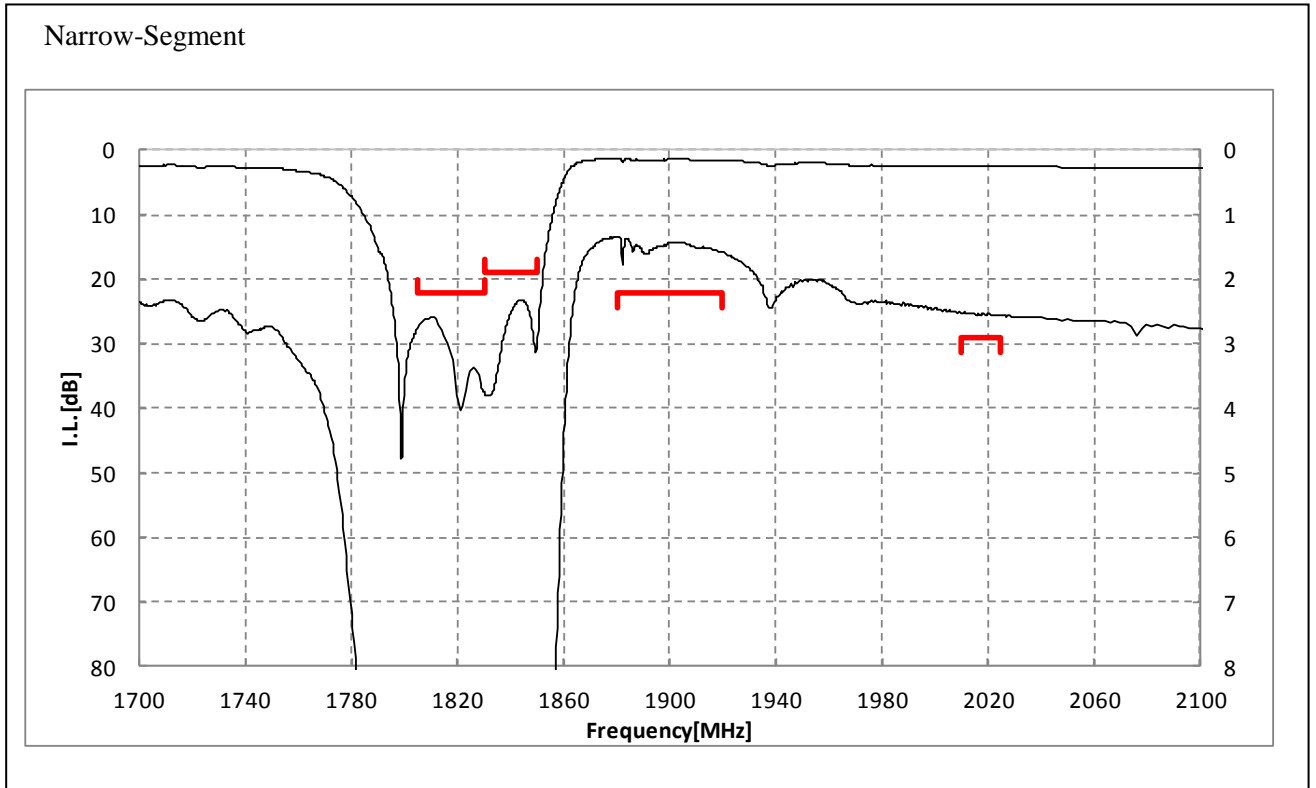
- : Unbalance Port : 50 ohm
- : Unbalance Port : 50 ohm

Item	Characteristics			Unit	Note	
	(-30 to +85 deg.C)					
	min.	typ.	max.			
Center Frequency			1827.5	MHz		
Insertion Loss	1880. to 1920. MHz		1.8	2.3	dB	
	1880. to 1920. MHz		1.8	2.2	dB	+23 to +27deg.C
	2010. to 2025. MHz		2.6	2.9	dB	
Ripple Deviation	2010. to 2025. MHz		2.6	2.9	dB	+23 to +27deg.C
	1880. to 1920. MHz		0.4	1.3	dB	
VSWR	2010. to 2025. MHz		0.1	1.7	dB	
	1880. to 1920. MHz		1.6	2.2		
Absolute Attenuation	1880. to 1920. MHz		1.7	2.3		
	10. to 1559. MHz	0.5	1.9		dB	
	1559. to 1606. MHz	0.5	1.9		dB	
	1805. to 1830. MHz	22	26		dB	
	1805. to 1830. MHz	22	26		dB	+23 to +27deg.C
	1830. to 1850. MHz	19	23		dB	
	1830. to 1850. MHz	19	23		dB	+23 to +27deg.C
	2401. to 2484. MHz	15	20		dB	
	2401. to 2484. MHz	15	20		dB	+23 to +27deg.C
	2760. to 4050. MHz	15	23		dB	
	5640. to 6075. MHz	10	18		dB	

* Typical value at 25±2deg.C

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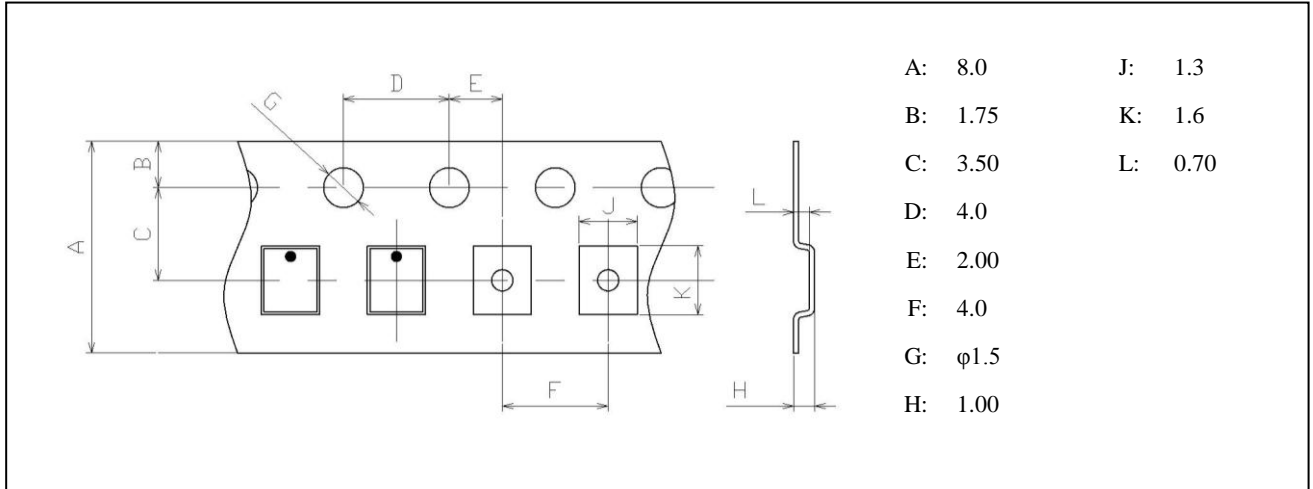
Electrical Characteristic



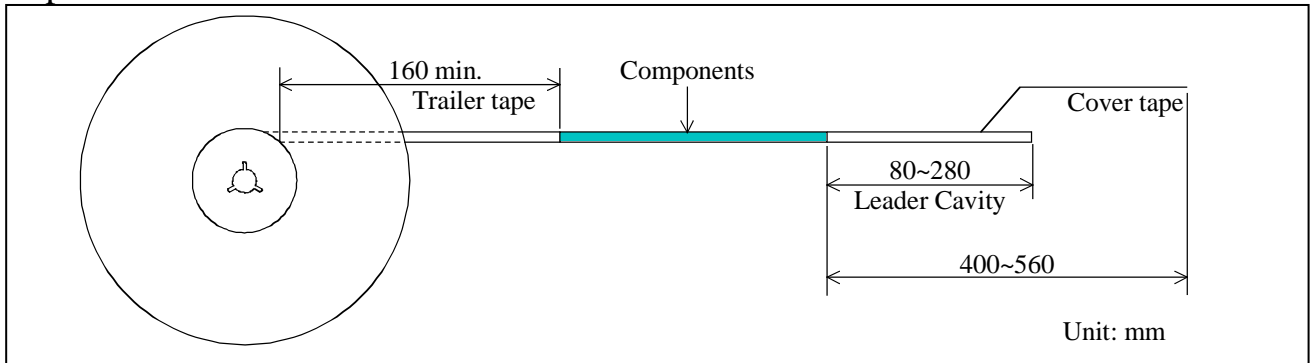
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Dimensions of Tape & Reel unit: mm

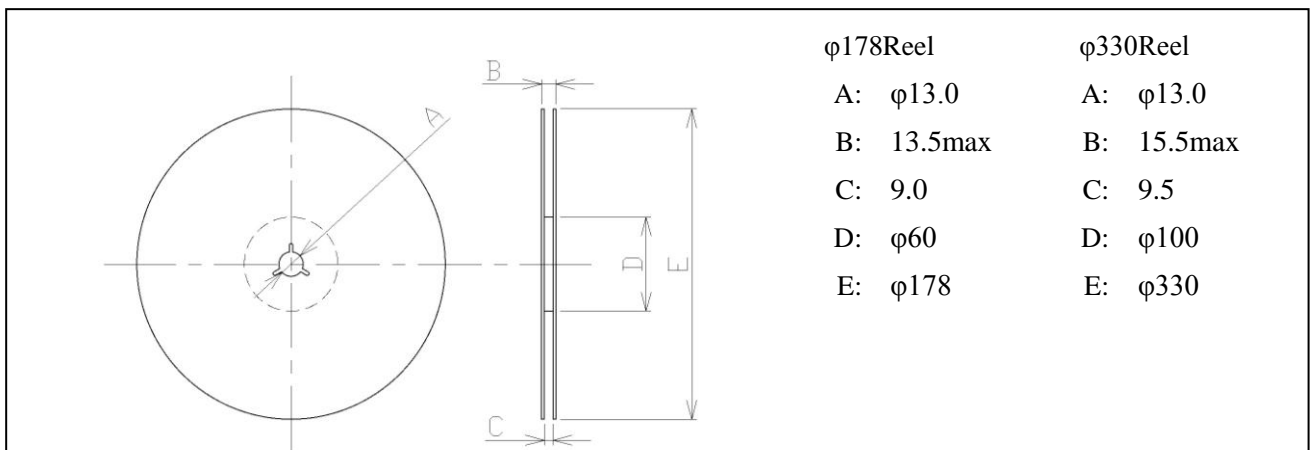
Carrier Tape



Tape



Reel



SACEA1G82TA0F0AR00... 10000pcs ($\phi 330$)
 SACEA1G82TA0F0AR15... 5000pcs ($\phi 178$)
 SACEA1G82TA0F0AR1S... sample Order ($\phi 178$)

SACEA1G82TA0F0A (N-DCS / Unbalanced / 5pin / 1411)

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)

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.

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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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