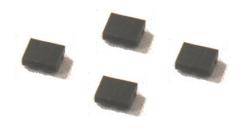


Data Sheet of SAW Components



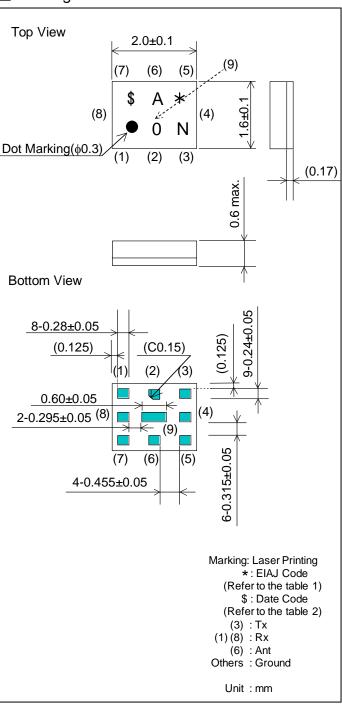
Note: Murata SAW Component is applicable for Cellular/Cordless phone (Terminal) relevant market only.

Please also read caution at the end of this document.



Murata part number :SAYRF1G95CA0B0A [Tx→ANT]

Package Dimensions



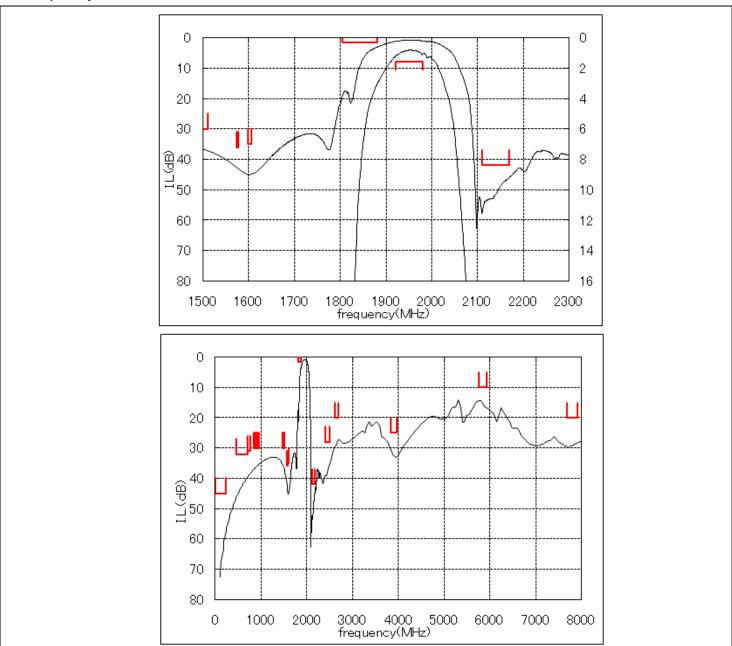
Specification

ltem						Specification				
item					-30 to 85°C	typ.				
Nomi	nal Cent	er Fi	requency	(fc)	1950MHz					
Inser	tion Los:	3								
(1920 to 1980MHz)					1.6 dB max.	1.5 dB max.	1.2 dB			
Abso	olute Atte	nua	ition							
1)	0.1	to	240	MHz	45 dB min.	45 dB min.	56 dB			
2)	470	to	710	MHz	32 dB min.	32 dB min.	39 dB			
3)	710	to	770	MHz	31 dB min.	31 dB min.	38 dB			
4)	843	to	895	MHz	30 dB min.	30 dB min.	36 dB			
5)	869	to	894	MHz	30 dB min.	30 dB min.	36 dB			
6)	925	to	960	MHz	30 dB min.	30 dB min.	35 dB			
7)	1475.9	to	1495.9	MHz	30 dB min.	30 dB min.	34 dB			
8)	1495.9	to	1510.9	MHz	30 dB min.	30 dB min.	35 dB			
9)	1573.3 to 1577.5 MHz		MHz	36 dB min.	36 dB min.	40 dB				
10)	1597.5	1597.5 to 1606 MHz		MHz	35 dB min.	35 dB min.	42 dB			
11)	1805	1805 to 1880 MHz [*]		1.5 dB min.	1.5 dB min.	3.0 dB				
12)	2110	110 to 2170 MHz		MHz	42 dB min.	42 dB min.	45 dB			
13)	2400	to	2500	MHz	28 dB min.	28 dB min.	34 dB			
14)	2620	to	2690	MHz	20 dB min.	20 dB min.	28 dB			
15)	3840	to	3960	MHz	25 dB min.	25 dB min.	28 dB			
16)	5760	to	5940	MHz	10 dB min.	10 dB min.	16 dB			
17)	7680	to	7920	MHz	20 dB min.	20 dB min.	29 dB			
	e Deviati 0 to 1980		z)		1.0 dB max.	1.0 dB max.	0.4 dB			
	e Deviati 0 to1980		any 5.0MH	łz	0.5 dB max.	0.5 dB max.	0.2 dB			
VSW										
1920	to1980N	ЛHz	(Tx)		2.0 max.	1.9 max.	1.7			
1920	to 1980	MHz	(ANT)		2.0 max.	1.7				
ANT	Port Mat	chin	g Impeda	nce(nominal)	50Ω//3.9nH					
Tx P	ort Match	ing	Impedanc	e(nominal)	50Ω					
Rx P	ort Match	ning	Impedano	ce(nominal)	100Ω//15nH					
Input Signal Level					0.8W(29dBm), 10000 hours (55°C)					
Input Signal Level					at WCDMA modulation					



<u>Murata part number :SAYRF1G95CA0B0A</u> [$Tx \rightarrow ANT$]

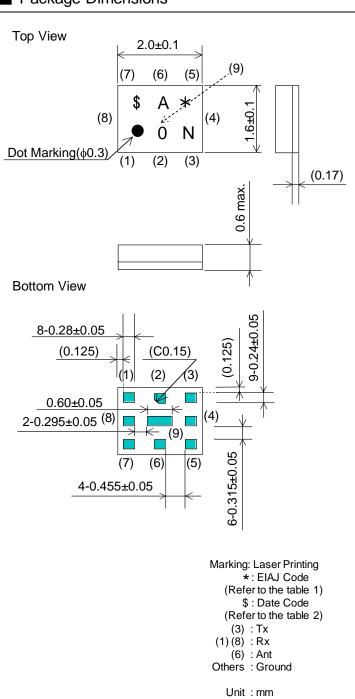
■ Frequency Performance





Murata part number :SAYRF1G95CA0B0A [ANT→Rx]

Package Dimensions



Specification

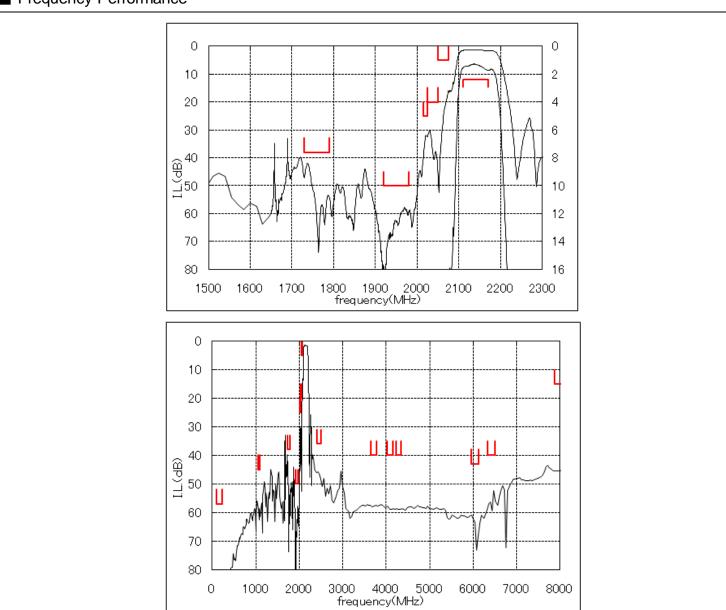
		Item	Specification					
		kem	-30 to 85°C	-30 to 85°C 25±2°C				
Nomin	al Center Fre	quency(fc)	2140MHz					
Inserti	on Loss							
(2110	to 2170MHz)	2.4 dB max.	2.4 dB max.	1.7 dB			
Absol	ute Attenuati	on						
1)	100 to	220 MHz	57 dB min.	57 dB min.	97 dB			
2)) 1055 to 1085 MHz		45 dB min.	45 dB min.	57 dB			
3)	1730 to	1790 MHz	38 dB min.	38 dB min.	42 dB			
4)	1920 to	1980 MHz	50 dB min.	50 dB min.	57 dB			
5)	2015 to	2025 MHz	25 dB min.	25 dB min.	32 dB			
6)	2025 to	2050 MHz	20 dB min.	20 dB min.	30 dB			
7)	2050 to	2075 MHz	5 dB min.	5 dB min.	16 dB			
8)	2400 to	2500 MHz	36 dB min.	36 dB min.	46 dB			
9)	3650 to	3770 MHz	40 dB min.	40 dB min.	56 dB			
10)	4030 to 4150 MHz		40 dB min.	40 dB min.	61 dB			
11)	4220 to 4340 MHz		40 dB min.	40 dB min.	59 dB			
12)	5950 to	6130 MHz	43 dB min.	43 dB min.	55 dB			
13)	6330 to	6510 MHz	40 dB min.	40 dB min.	58 dB			
14)	7870 to	8110 MHz	15 dB min.	15 dB min.	52 dB			
	Deviation to 2170MHz)	1.5 dB max.	1.5 dB max.	0.5 dB			
	Deviation an	•	0.5 dB max.	0.5 dB max. 0.5 dB max.				
	ude Balance to 2170MHz)		±1.4 dB max.	±1.4 dB max.	1.2			
	Balance to 2170MHz))	180±10deg. max.	180±10deg. max.	180+4deg.			
VSWF	₹							
2110 t	to 2170MHz ((ANT)	1.9 max. 1.9 max.		1.5			
2110 t	to 2170MHz ((Rx)	1.9 max.	1.9 max.	1.5			
ANT F	Port Matching	Impedance(nominal)		50Ω//3.9nH				
Tx Por	rt Matching In	npedance(nominal)		50Ω				
Rx Po	rt Matching Ir	npedance(nominal)		100Ω//15nH				

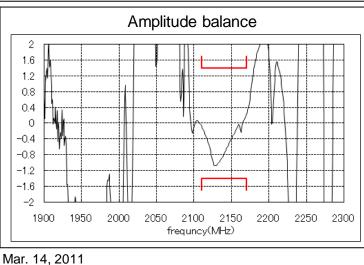
Mar. 14, 2011 3/9

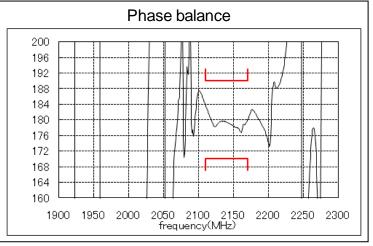


Murata part number :SAYRF1G95CA0B0A [ANT→Rx]

■ Frequency Performance





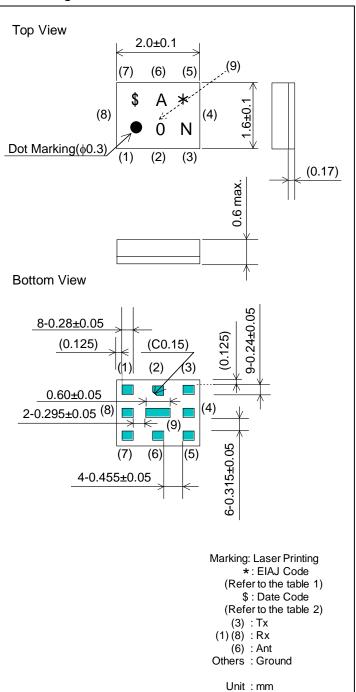


Mar. 14, 2011 4/9



Murata part number :SAYRF1G95CA0B0A [Tx→Rx]

Package Dimensions



Specification

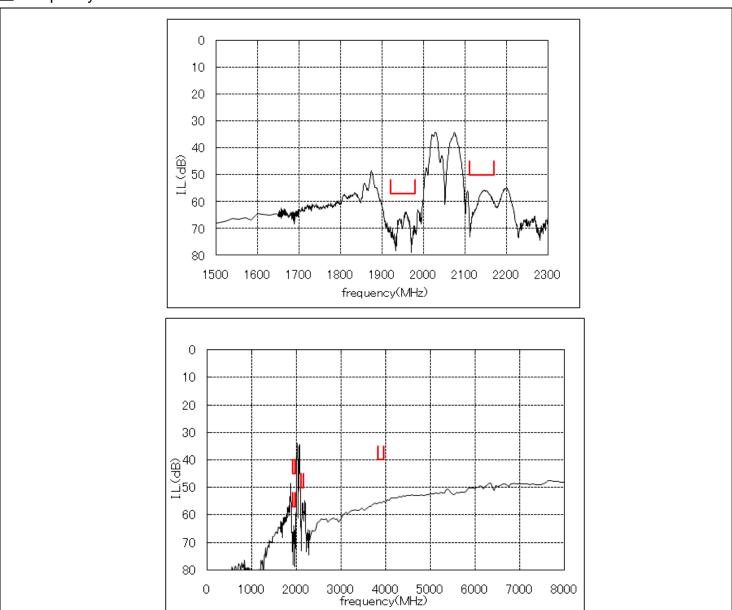
		ltem	Specification					
		item	-30 to 85°C	25±2°C	typ.			
Isola	ation (DMI)							
1)	1920 to	1980 MHz	57 dB min.	57 dB min.	61 dB			
2)	2110 to	2170 MHz	50 dB min.	50 dB min.	57 dB			
3)	3840 to	3960 MHz	40 dB min.	40 dB min.	55 dB			
Isola	ation (CMI)							
1)	1920 to	1980 MHz	45 dB min.	45 dB min.	48 dB			

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Murata part number :SAYRF1G95CA0B0A [Tx→Rx]

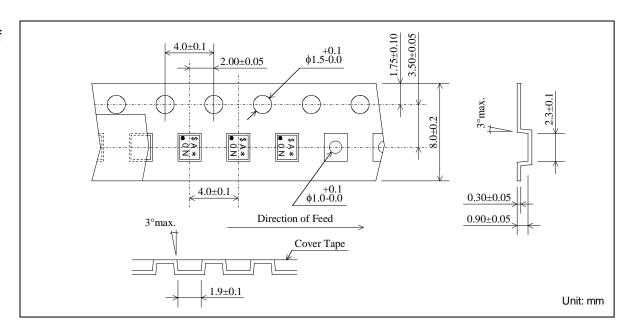
■ Frequency Performance



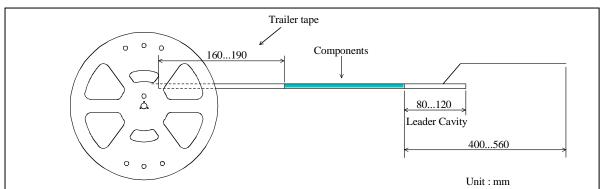


Murata part number: SAYRF1G95CA0B0A

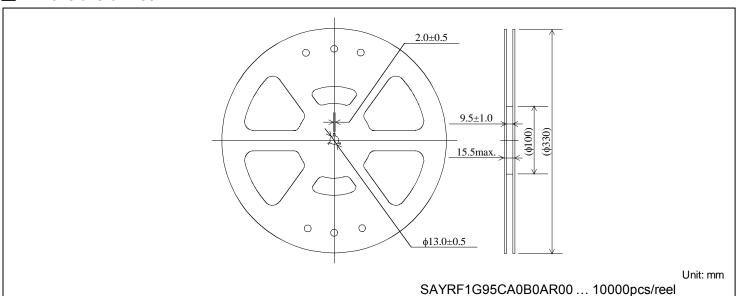
Dimensions of Carrier Tape



Dimensions of Tape



Dimensions of Reel



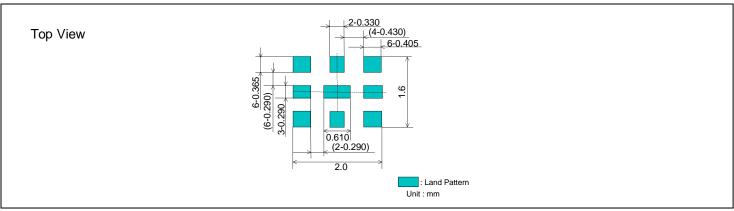
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SAYRF1G95CA0B0AR05... 5000pcs/reel

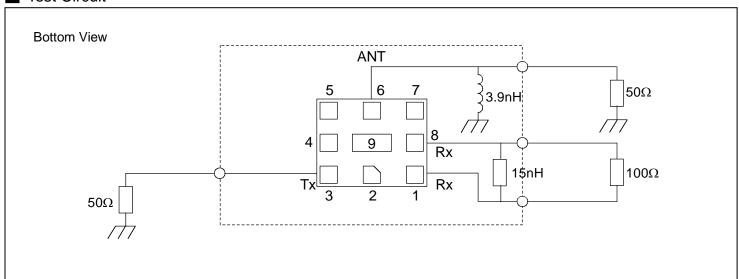


Murata part number: SAYRF1G95CA0B0A

Recommended Land Pattern



Test Circuit





Murata part number: SAYRF1G95CA0B0A

RoHS Compliance

This component is compliant with RoHS directive.

This component was always RoHS compliant from the first date of manufacture.

Caution - Limitation of Applications

This product is intended for the following applications only; however, please do not use this product in these applications where defects might directly cause damage to a third party's life, body or property.

- a. Mobile Telephone
- b. Cordless phone (except for Automotive use)
- c. PC (Including Notebook PC, Netbook PC, Tablet)
- d. Game
- e. Camera (except for Business/security use)
- f. Set Top Box
- g. Electronic dictionary
- h. Digital audio equipment
- This catalog is for reference only and not an official product specification document, therefore, please review and approve our official product specification before ordering this product.

Marking code

Table 1 * : EIAJ Code

This rule of code is applied repeatedly every four year.

0000												
2009	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2013	Α	В	O	D	Е	F	G	Н	J	K	L	М
2017									_	<u> </u>		
2010	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2014	N	P	O	R	S	т	U	\/	W	Х	V	7
2018	IN		3	IX	3	'	O	V	VV	^	'	
2011	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2015	а	b	10	d	e	f	ď	0	-:	0	0	m
2019	σ	ב	٥	J	U	-	g	h	J	k	¥	-
2012	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2016						4						
2020	n	p	9	Γ	1	τ	u	V	W	x	y	3

Table 2 \$: Date Code

date	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	
code	Α	В	C	D	Е	F	G	Ι	J	K	
date	11th	12th	13th	14th	15th	16th	17th	18th	19th	20th	
code	L	М	Ν	Р	Q	R	S	T	U	V	
date	21st	22nd	23rd	24th	25th	26th	27th	28th	29th	30th	31st
code	W	Х	Υ	Z	а	b	c	d	е	f	g



Murata part number: SAYRF1G95CA0B0A

■Important notice

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. Furthermore, YOU AGREE TO INDEMNIFY AND DEFEND US AND OUR AFFILIATES AGAINST ALL CLAIMS, DAMAGES, COSTS, AND EXPENSES THAT MAY BE INCURRED, INCLUDING WITHOUT LIMITATION, ATTORNEY FEES AND COSTS, DUE TO THE USE OF OUR PRODUCTS IN SUCH APPLICATIONS.

- 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.

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.

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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.



Murata part number: SAYRF1G95CA0B0A

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

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

We disclaims any liability for consequential and incidental damages.

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