

Datasheet of SAW Device

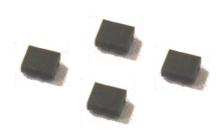
SAW Duplexer

for Band1 / Unbalanced / LR /1814

Murata PN: SAYEY1G95GA0F0A

Feature

- > Small Size
- > LTE-A



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

Please also read caution at the end of this document.



Revision Number	Date	Description
SAYEY1G95GA0F0A_rev. A	Aug-23-2013	■ Initial Release
SAYEY1G95GA0F0A_rev. B	Mar-28-2014	■ Updated for MP
SAYEY1G95GA0F0A_rev. C	Apr-01-2014	
SAYEY1G95GA0F0A_rev. D	Oct-06-2015	■ Updated Feature,Spec Line
SAYEY1G95GA0F0A_rev. E	Sep-15-2016	■ Updated General Information
SAYEY1G95GA0F0A_rev. F	Mar-09-2017	■ Updated General Information
SAYEY1G95GA0F0A_rev. G	Aug-28-2017	■ Updated General Information

- Operating temperature : -20 to +85 deg.C - Storage temperature : -40 to +85 deg.C

- Input Power : +29 dBm 5000 h +55 deg.C

- D.C. Volatage between the terminals : 3V (25+/-2 deg.C)

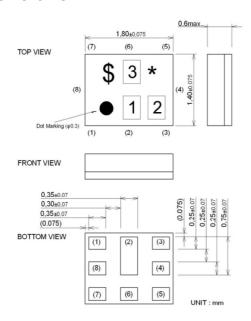
Minimum Resistance between the terminals : 10M ohm
 RoHS compliance : Yes
 ESD (ElectroStatic Discharge) sensitive device



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)

1:5

2 : Q

3 : A

Terminal Number

(6): Ant

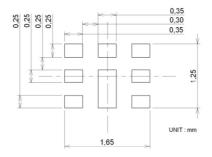
(3):TX

(1): RX

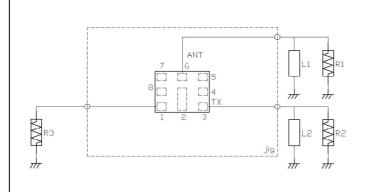
Others: GND

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

Land Pattern



Measurement Circuit (Top Thru View)



R1 : 50 ohm	L1 :2.8nH(Ideal inductor)
	:3nH(LQP03TN)
	<reference></reference>
R2 : 50 ohm	L2 :8nH(Ideal inductor)
R3 : 50 ohm	



Electrical Characteristic < TX→ANT. >

T.				Cha (-20	racteri to +85 d	stics eg.C)	Unit	Note	
			min.	typ.*	max.				
Center Frequency						1950		MHz	
Insertion Loss	1920.48	to	1979.52			1.5	1.8	dB	S21
	1920.48	to	1979.52	MHz		1.5	1.8	dB	+23 to +27deg.C
		to	1980.	MHz		1.5	1.8	dB	S21
	1920.	to	1980.	MHz		1.5	1.8	dB	+23 to +27deg.C
		to	1977.6	MHz		1.3	1.8	dB _{INT}	Any 3.84MHz
Ripple Deviation		to	1980.	MHz		0.2	0.5	dB	Over any 5MHz in-band
VSWR		to	1980.	MHz		1.3	2.0		TX
		to	1980.	MHz		1.4	2.0		ANT.
Absolute Attenuation		to	1574.	MHz	29	32		dB	
		to	494.	MHz	41	46		dB	450MHz RX Att.
	815.	to	830.	MHz	29	32		dB	B18 TX CA
	824.	to	849.	MHz	29	32		dB	B5 TX CA
		to	845.	MHz	29	32		dB	B19 TX CA
		to	894.	MHz	29	32		dB	JCDMA/CELL RX Att.
		to	915.	MHz	29	32		dB	B8 TX CA
		to	960.	MHz	29	32		dB	WLAN and DL CA
		to	1250.	MHz	30	34		dB	GPS L2
		to	1462.9	MHz	30	38		dB	B21 TX CA
		to	1496.	MHz	36	39		dB	B11 RX band
		to	1511.	MHz	36	40		dB	B21 RX band
	1559.	to	1563.	MHz	38	43		dB	Compass
	1565.42		1573.37	MHz	38	43		dB	Wideband GPS lower side
	1573.37	to	1577.47	MHz	38	43		dB	Regular GPS main lobe
	1577.47	to	1585.42	MHz	38	43		dB	Wideband GPS upper side
	1597.55	to	1605.89	MHz	40	45		dB	GLONASS
	1605.88		1805.	MHz	25	36		dB	D. C. C. LDOOL
		to	1865.	MHz	21	26		dB	Protected DCS band
		to	1880.	MHz	10	25		dB	Protected DCS band
		to	1895.	MHz	5.0	20.0		dB	1.451 .051
		to	2025.	MHz	20	22		dB	+15 to +85deg.C
		to	2170.	MHz	42	46		dB	IMT Att.
		to	2500.	MHz	40	45 38		dB	ISM2.4
		to	2690.	MHz	33			dB	Protected 2.6GHz band
		to	3960.	MHz	23	28		dB	2f
		<u>to</u>	5950.	MHz	16	21 21		dB	3f WLAN 801.11a
		to	5845.	MHz	16	15		dB	II.
		to	7920. 9900.	MHz	10 9.8	12.0		dB dB	4f
		to	11880.	MHz MHz		15.0		dВ	5f 6f
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^{*} Typical value at 25±2deg.C



Electrical Characteristic < ANT.→RX >

Center Frequency	Licetifical Offai	1									
Center Frequency						Cha	racteri	stics			
Center Frequency	AN	$IT. \to RX$				(-20	to +85 d) +85 deg.C)		Note	
Center Frequency						min.	typ.*	max.			
Insertion Loss	Center Frequency								MHz		
2110.48 to 2169.52 MHz 1.8 2.2 dB +23 to +27deg.C		2110 48	to	2169 52	MHz			23			
2110. to 2170. MHz 1.8	moortion 2000	2110.18	to							+23 to +27dea C	
Ripple Deviation										12010 121409.0	
Ripple Deviation										+23 to +27dea C	
VSWR	Rinnle Deviation										
Absolute Attenuation 1. to 1920. MHz 32 41 dB 1. to 1920. MHz 50 79 dB RX-TX 718. to 748. MHz 40 56 dB B28-B TX CA 814. to 849. MHz 40 53 dB B8 TX CA 880. to 915. MHz 40 53 dB B8 TX CA 1427. to 1447. MHz 40 46 dB B21 TX CA 1430. to 1790. MHz 39 44 dB B21 TX CA 1730. to 1790. MHz 39 44 dB B3 TX CA 1710. to 1785. MHz 45 51 dB B3 TX CA 1920. to 1980. MHz 45 51 dB TX 1980. to 2015. MHz 15 46 dB 2015. to 2075. MHz 7.0 10.0 dB (RX+TX)/2 2255. to 6130. MHz 27 32 dB 2400. to 2500. MHz 30 35 dB ISM2.4 2500. to 2570. MHz 38 43 dB B7 TX CA 4340. to 13025. MHz 33 42 dB B3 TX CA 4340. to 13025. MHz 38 43 dB RX+TX 4340. to 13025. MHz 33 42 dB B3 TX CA 4340. to 13025. MHz 33 38 dB RX+TX 4340. to 13025. MHz 33 38 dB RX+TX 4360. to 5950. MHz 33 38 dB ISM 5G 5950. to 6130. MHz 32 37 dB RX+2TX 6130. to 6330. MHz 32 37 dB RX+2TX 6130. to 6330. MHz 32 37 dB RX+2TX 6130. to 6510. MHz 32 37 dB RX+2TX 6130. to 630. MHz 32 37 dB RX+2TX 6150. to 610. MHz 32 37 dB RX+2TX 6150. to 6880. MHz 20 27 dB 4f 10550. to 10850. MHz 20 27 dB 5f									ų D		
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10550. to 10850. MHz 20 27 dB 5f			to			32			dB		
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		12660.	to	13020.	MHz	15	19		dB	6f	
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^{*} Typical value at 25±2deg.C



Electrical Characteristic < TX→RX. >

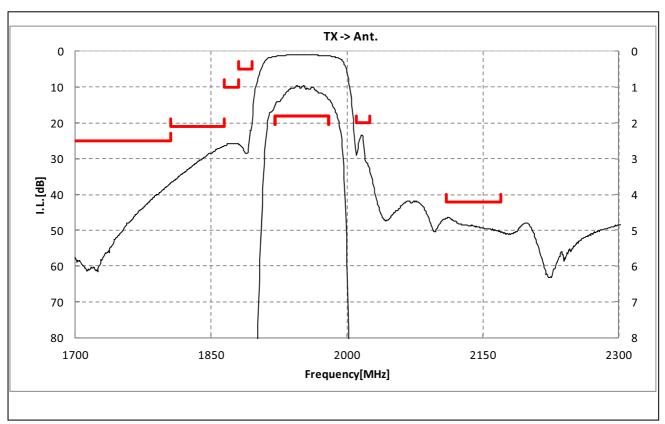
TX → RX Characteristics Children Chi				·	. , ,	Cha		cticc				
Mile	_	V . DV				(-20	to +85 d	ea C)	Lloit	Note		
1574. to 1577. MHz	'	$V \rightarrow LY$								Note		
1574	laclation	Т				min.	ιyp.	ттах.				
1920 10 1980, MHz 55 58 dB TX 1920 10 1970 52 MHz 55 58 dB TX 1922 4 10 1977 6 MHz 55 58 dB TX 1921 10 1217 6 MHz 55 58 dB TX 2110 48 10 2169 52 MHz 51 54 dB RX 2112 4 10 2167 6 MHz 51 54 dB RX 2112 4 10 2167 6 MHz 30 52 dB TX 2nd harmonic Att. 3830 10 3970 MHz 30 61 dB TX 3rd harmonic Att. 5750 10 5950 MHz 30 61 dB TX 3rd harmonic Att. 4 4 4 4 4 4 4 4 4	Isolation	1574	·	1577	MHz	40	77		ЧB			
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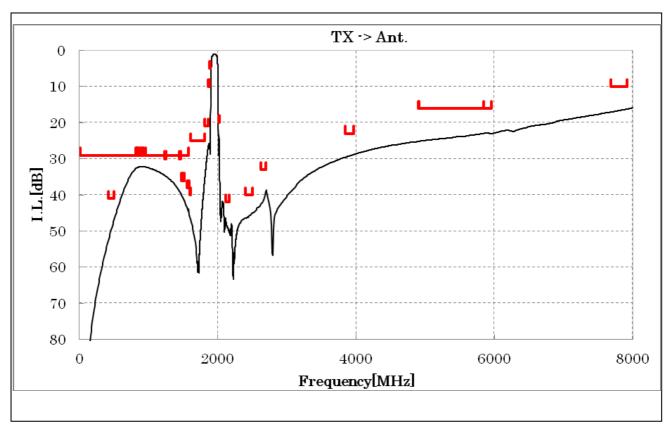
^{*} Typical value at 25±2deg.C



Electrical Characteristic

< TX→ANT. >

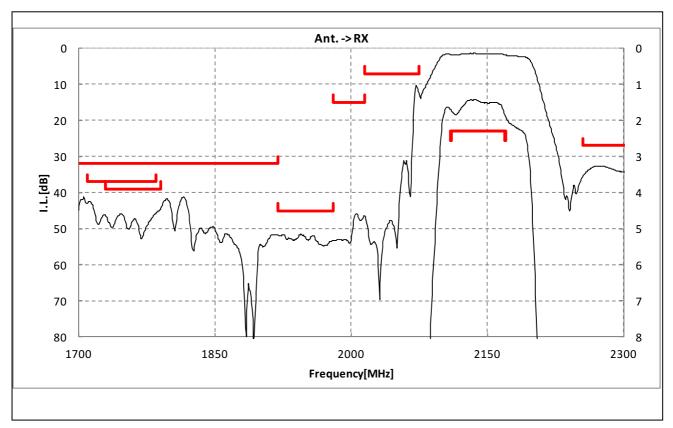


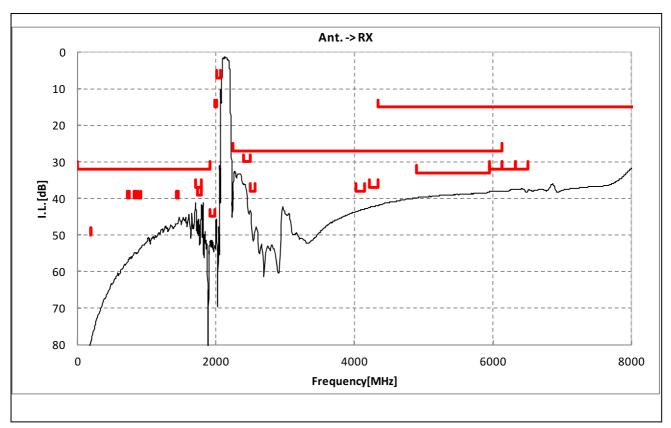




Electrical Characteristic

< ANT.→RX >

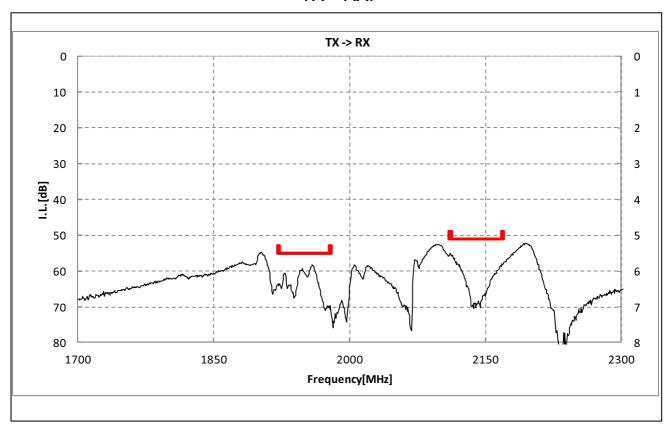


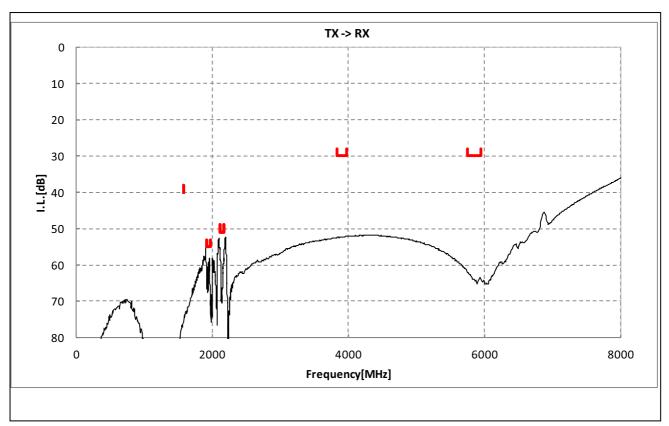




Electrical Characteristic

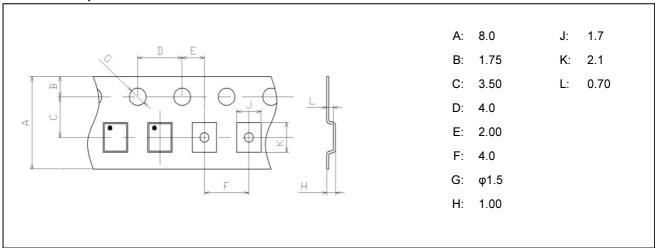
< TX→RX. >



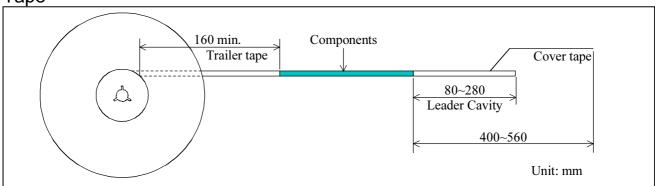


Dimensions of Tape & Reel unit: mm

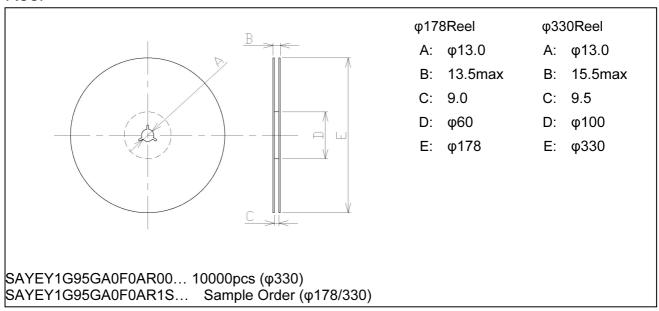
Carrier Tape



Tape



Reel





Marking Code

Table A: Month Code

2013	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2017 2021	Α	В	O	D	Е	F	G	Н	٦	К	١	М
2014	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2018 2022	N	Р	Q	R	S	Т	U	V	W	Х	Υ	Z
2015	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2019 2023	а	ь	10	d	е	f	gg	h	j	k	Q	m
2016	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2020 2024	n	P	G	r	4	t	э	Ú	3	æ	y	3

Table B: Date Code

date code	21st W	22nd X	23rd	24th	25th a	26th b	27th	28th	29th e	30th	31st g
code	L	М	N	Р	Q	R	S	T	U	V	
date	11th	12th	13th	14th	15th	16th	17th	18th	19th	20th	
code	Α	В	С	D	Е	F	G	Н	J	K	
date	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	

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.

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.



Important Notice (2/2)

- 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.

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.

We do not warrant or represent that any license, either express or implied, is granted under any our patent right, copyright, mask work right, or our other intellectual property right relating to any combination, machine, or process in which our products or services are used. Information provided by us regarding third-party products or services does not constitute a license from us to use such products or services or a warranty or endorsement thereof. Use of such information may require a license from a third party under the patents or other intellectual property of the third party, or a license from us under our patents or other intellectual property.

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.

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

- •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.

We disclaim any liability for consequential and incidental damages.

If you can't agree the above contents, you should inquire our sales.

单击下面可查看定价,库存,交付和生命周期等信息

>>Murata(村田)