

Datasheet of SAW Device

SAW Duplexer

for Band1 / Unbalanced / LR /1814

Murata PN: SAYEY1G95GA0F0A

■ Feature
> LTE-A



Note: This Murata SAW Component is Consumer grade product and applicable for Cellular phone or similar end devices.

Please also read Important Notice at the end of this document.





General Information

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

: +30.0dBm 5000h +50deg.C (1) - Input Power +28.5dBm 5000h +50deg.C (2)

(1) applicable for W-CDMA, SC-FDMA, DFT-s-OFDM

(2) applicable for CP-OFDM

- D.C. Volatage between the terminals : 3V (25+/-2 deg.C) - Minimum Resistance between the terminals : 10M ohm - RoHS compliance : Yes

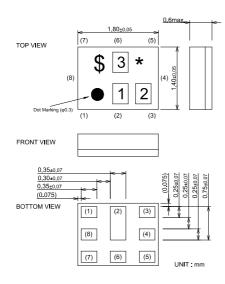
- ESD (ElectroStatic Discharge) sensitive device

The input power shall be applied to Tx-port within own Tx passband frequency range.



Package Dimensions & Recommended Land Pattern unit: mm

Dimensions



Marking: Laser Printing

*: Month code

\$: Date code

1:5

2:Q

3 : A

Terminal Number

(6): Ant

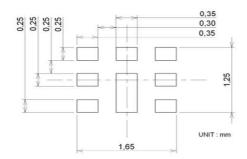
(3):TX

(1): RX

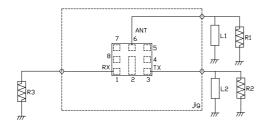
Others: GND

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)
	:3.3nH (LQP03TN3N3)
	<reference></reference>
R2 : 50 ohm	L2 :8nH (Ideal inductor)
R3 : 50 ohm	



Electrical Characteristic < TX → ANT. >

Insertion Loss	$TX \rightarrow ANT.$			Characteristics (-20 to +85 deg.C)			Unit	Note		
1920.48 to 1979.52 MHz				min.	typ.*	max.				
1920 48 to 1979.52 MHz	Center Frequency						1950		MHz	İ
1920	Insertion Loss	1920.48	to	1979.52	MHz			1.8		
1920		1920.48	to							
Ripple Deviation			to							
Ripple Deviation			to							
VSWR			to							
1920. 10 1980. MHz 1.4 2.0 ANT.	Ripple Deviation		to						dB	
Absolute Attenuation 10. to 1574. MHz 29 32 dB 450MHz RX Att. 420. 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 830. to 845. MHz 29 32 dB B19 TX CA 843. to 894. MHz 29 32 dB B19 TX CA 880. to 915. MHz 29 32 dB B8 TX CA 925. to 960. MHz 29 32 dB B8 TX CA 1226. to 1250. MHz 30 34 dB GPS L2 1447.9 to 1462.9 MHz 30 38 dB B21 TX CA 1475. to 1496. MHz 36 39 dB B11 RX band 1496. to 1511. MHz 36 40 dB B21 TX CA 1559. to 1563. MHz 38 43 dB Compass 1565.42 to 1573.37 MHz 38 43 dB Wideband GPS lower side 1573.37 to 1577.47 MHz 38 43 dB Regular GPS main lobe 1577.55 to 1605.89 MHz 38 43 dB Regular GPS main lobe 1597.55 to 1605.89 MHz 40 45 dB GLONASS 1605.88 to 1805. MHz 25 36 dB 1805. to 1865. MHz 25 36 dB 1805. to 1865. MHz 25 36 dB 1805. to 1880. MHz 10 25 dB Protected DCS band 1880. to 1895. MHz 40 45 dB ISM2.4 2400. to 2500. MHz 42 46 dB ISM2.4 2620. to 2690. MHz 33 38 dB ISM2.4 4905. to 5845. MHz 16 21 dB WLAN 801.11a 7680. to 7920. MHz 10 15 dB WLAN 801.11a 7680. to 7920. MHz 10 15 dB WLAN 801.11a 7680. to 7990. MHz 19.8 12.0 dB Sf	VSWR		to							
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^{*} Typical value at 25±2deg.C



Electrical Characteristic < ANT. → RX >

ANT. → RX			Characteristics (-20 to +85 deg.C)			Unit	Note		
			min.	typ.*	max.				
Center Frequency						2140		MHz	
Insertion Loss	2110.48	to	2169.52			1.8	2.3	dB	
	2110.48	to	2169.52			1.8	2.2	dB	+23 to +27deg.C
	2110.	to	2170.	MHz		1.8	2.3	dB	
	2110.	to	2170.	MHz		1.8	2.2	dB	+23 to +27deg.C
Ripple Deviation	2110.	to	2170.	MHz		0.3	1.0	dB	Over any 5MHz in-band
VSWR	2110.	to	2170.	MHz		1.7	2.0		RX
	2110.	to	2170.	MHz		1.7	2.0		ANT.
Absolute Attenuation	1.	to	1920.	MHz	32	41		dB	IDV TV
	710	4 -	190. 748.	MHz	50 40	79 56		dB dB	RX-TX
	718. 814.	to	849.	MHz MHz	40	54		dВ	B28-B TX CA B26 TX CA
	880.	to	915.	MHz	40	53		dB	B8 TX CA
	1427.	to	1447.	MHz	40	46		dB	B11 TX CA
	1447.	to	1463.	MHz	40	45		dB	B21 TX CA
	1730.	to to	1790.	MHz	39	44		dB	2TX-RX
	1710.	to	1785.	MHz	37	42		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
	4030.	to	4150.	MHz	38	43		dB	RX+TX
	4220.	to	4340.	MHz	37	42		dB	2f
	4340.		13025.	MHz	15	19		dB	
	4900.	to	5950.	MHz	33	38		dB	ISM 5G
	5950.	to	6130.	MHz	32	37		dB	RX+2TX
	6130.	to	6330.	MHz	32	37		dB	
	6330.	to	6510.	MHz	32	37		dB	3f
	8440.	to	8680.	MHz	20	27		dB	4f
	10550.		10850.	MHz	20	27		dB	5f
	12660.	to	13020.	MHz	15	19		dB	6f
	I					<u> </u>			* Typical value at 2512dea C

^{*} Typical value at 25±2deg.C



Electrical Characteristic < TX → RX >

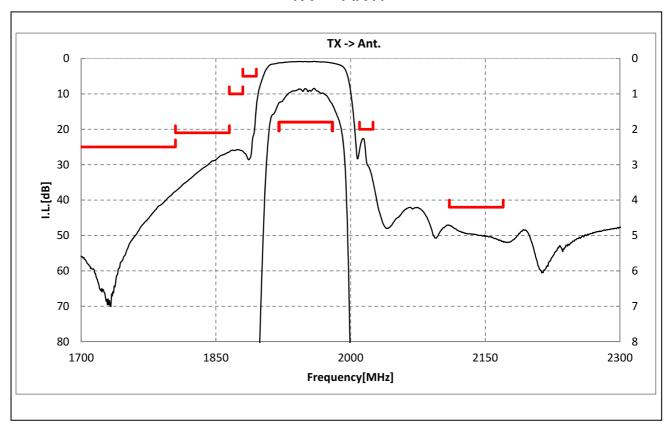
	TV DV			Cha	racteri	stics		N. (
	$IX \rightarrow RX$						Unit	Note
Isolation	TX → RX 1574. to 1920. to 1920.48 to 1922.4 to 2110. to 2110.48 to 2112.4 to 3830. to 5750. to	1577. 1980. 1979.52 1977.6 2170. 2169.52	MHz MHz MHz MHz MHz MHz MHz	Cha (-201	racterii to +85 d typ.* 77 58 58 58 54 54 52 61	stics eg.C) max.	dB dB	TX TX TX WCDMA TX Att./Any3.84MHz RX RX WCDMA RX Att./Any3.84MHz TX 2nd harmonic Att. TX 3rd harmonic Att.

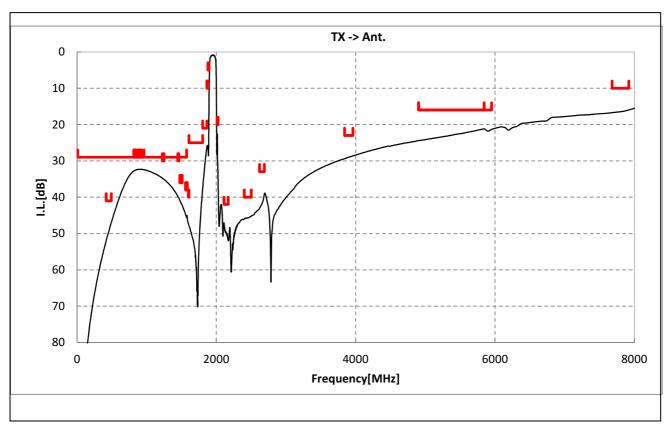
^{*} Typical value at 25±2deg.C



Electrical Characteristic

 $< TX \rightarrow ANT. >$

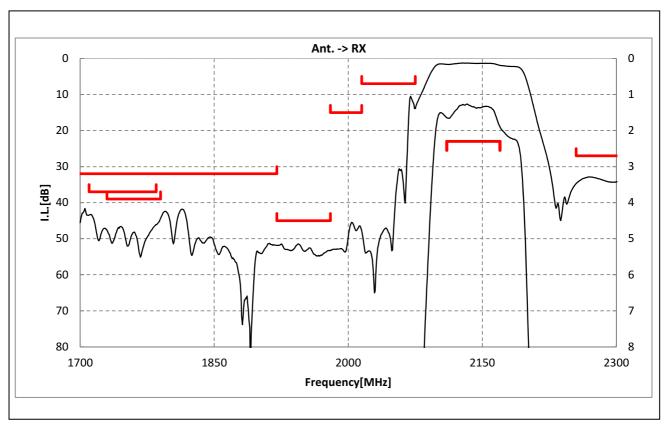


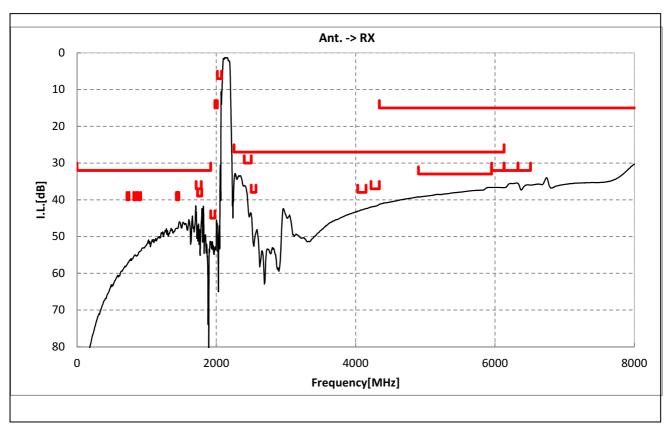




Electrical Characteristic

 $< ANT. \rightarrow RX >$

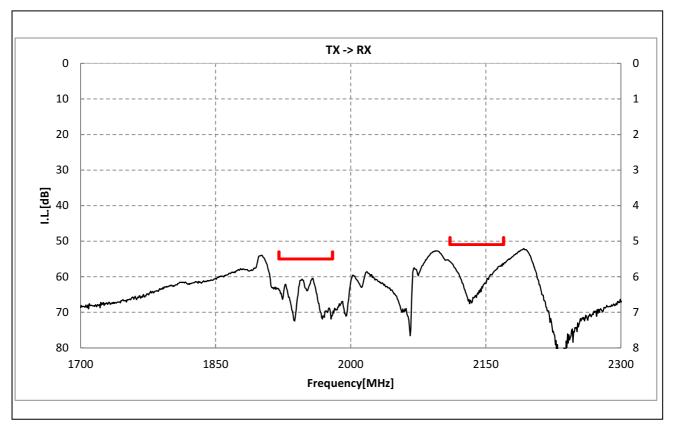


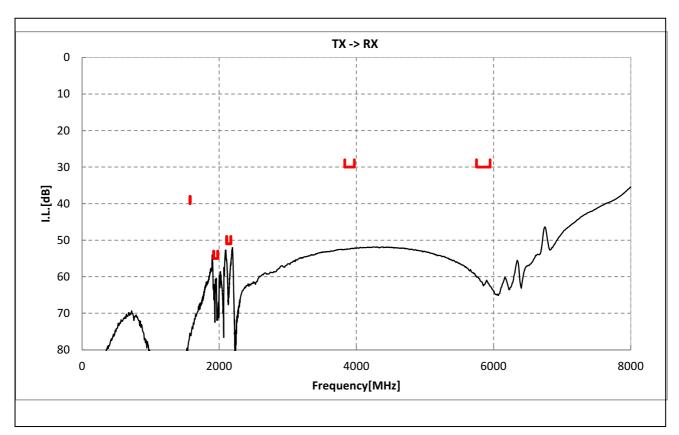




Electrical Characteristic

$$< TX \rightarrow RX >$$



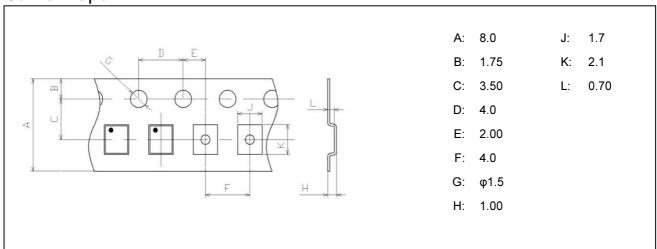




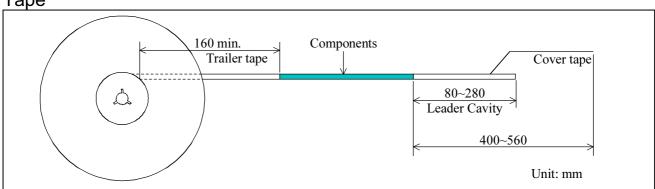
(Band1 / Unbalanced / LR / 1814) SAYEY1G95GA0F0A

Dimensions of Tape & Reel unit: mm

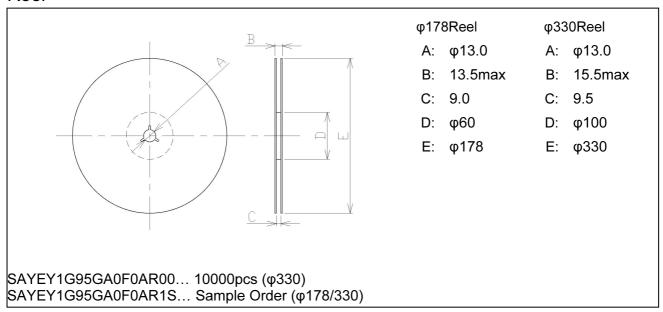
Carrier Tape



Tape



Reel





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 specified in the front page of this product specifications (the "Product" or "Products") 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 Product 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 for any application which requires especially high reliability or accuracy in order to prevent defect which incurs high possibility of damage to the third party's life, body or property such as the applications listed below as item (a) to (j) (the "Prohibited Application"). You acknowledge and agree that, if you use our Products in the Prohibited Applications, we will not be responsible for any damage caused by such use.

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 THE PROHIBITED APPLICATIONS.

- (a) Aircraft equipment.
- (b) Aerospace equipment
- (c) Undersea equipment.
- (d) Power plant control equipment
- (e) Medical equipment.
- (f) Transportation equipment (vehicles, automotive, trains, ships, etc.).
- (g)Traffic signal equipment.
- (h)Disaster prevention / crime prevention equipment.
- (i) Burning / explosion control equipment
- (j) Application of similar complexity and/ or reliability requirements to the applications listed in the above.

For the avoidance of doubt, the Product is not automotive grade, and will not support such requests for automotive as below, also not support other specific requests for automotive.

- AEC-Q200
- PPAP
- IATF16949, VDA6.3
- Zero Defect program
- Long product life cycle
- Automotive 8D failure analysis and report



Important Notice (2/2)

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.