

# Data Sheet for

## SAW Components

Band 3 Rx

Single Filter



---

Product ID: LAS1843A0A

Date: Apr. 2, 2020

Revision: 1.0

---

### Features

- ◆ Package Size : 1.1 x 0.9 x 0.5max mm
- ◆ Single-Ended Input and Output
- ◆ Terminating Impedance : 50  $\Omega$
- ◆ Moisture Sensitivity Level 3
- ◆ ESD Sensitive Device

## Electrical Specifications      Band3 Rx

Temperature Range for Specification : -30 to +85 °C

Ant to Rx			Min.	Typ.	Max.	Unit
Insertion Loss						
	1805 – 1880	MHz	-	2.3	3.1	dB
Pass Band Ripple						
	1805 – 1880	MHz	-	1.5	2.2	dB
VSWR						
	1805 – 1880	MHz	-	2.1	2.4	
Absolute Attenuation						
	1 – 1710	MHz	24	29	-	dB
	1712.4 – 1782.6	MHz	39	42	-	dB
	1940 – 2400	MHz	25	33	-	dB
	2400 – 2500	MHz	29	34	-	dB
	2500 – 6000	MHz	25	33	-	dB
	6000 – 8000	MHz	20	32	-	dB

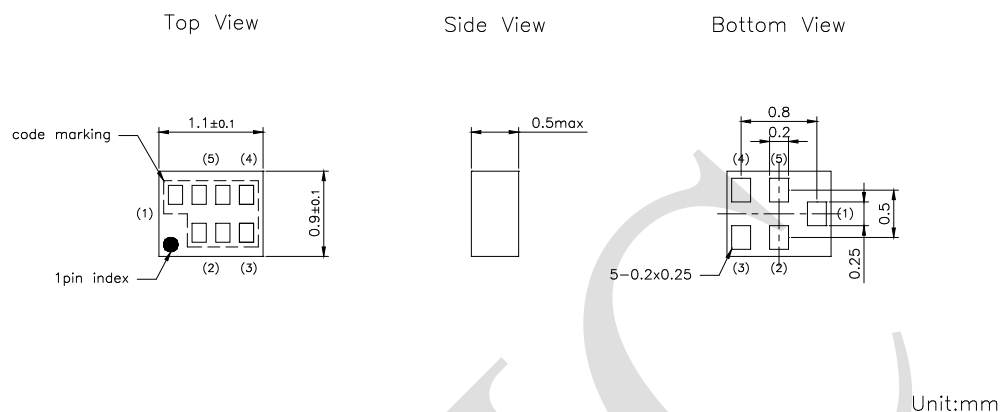
### Maximum Ratings

Item	Rating	Condition / Remark
Storage Temperature	-40 to +85 °C	
DC Voltage	5 V	+25 °C
Input Power	+15 dBm	CW , +55 °C , 2000 h

### Recommended Operating Conditions

Item	Rating	Condition / Remark
Operating Temperature, T <sub>CASE</sub>	-30 to +85 °C	

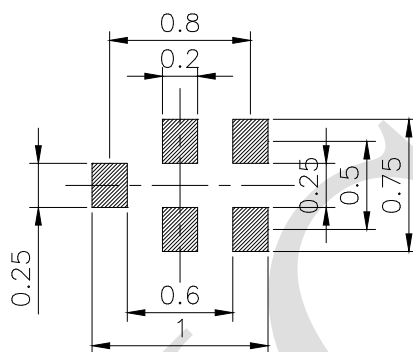
## Package Information



### Pin Configuration

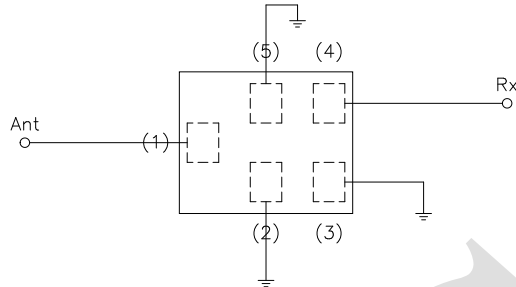
1 : Ant  
 4 : Rx  
 Other : GND

## Land Pattern



Unit:mm

## Application Circuit



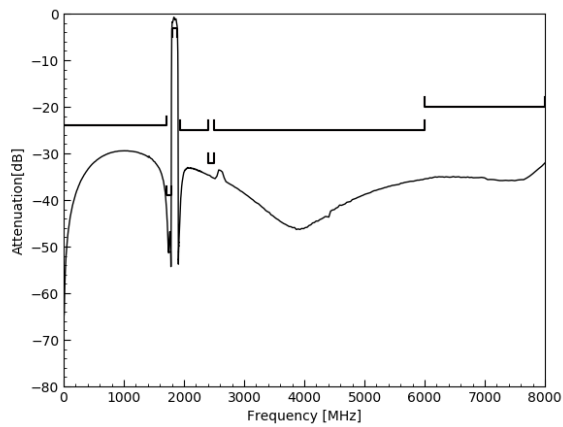
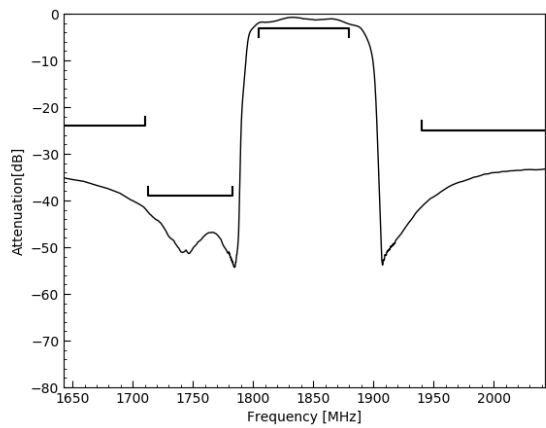
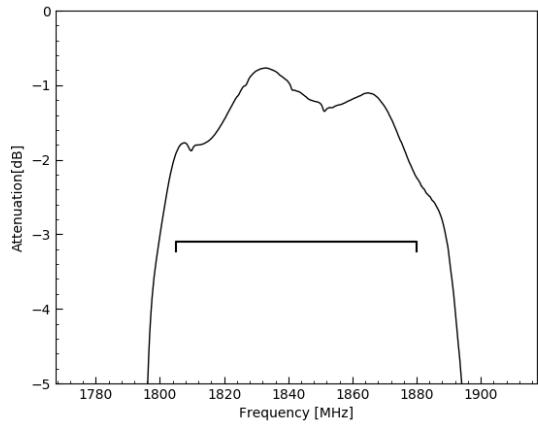
Port	Terminating Z	Matching Component
Ant	50 $\Omega$	
Rx	50 $\Omega$	

For ESD protection, external shunt inductor at all ports is recommended.

Electrical Characteristics

Band3 Rx

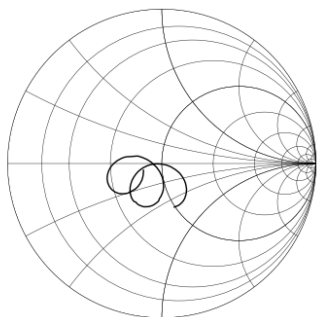
Ant to Rx



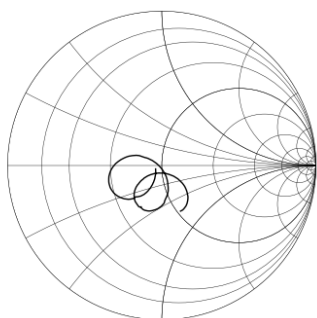
Electrical Characteristics

Band3 Rx

Ant Port Impedance

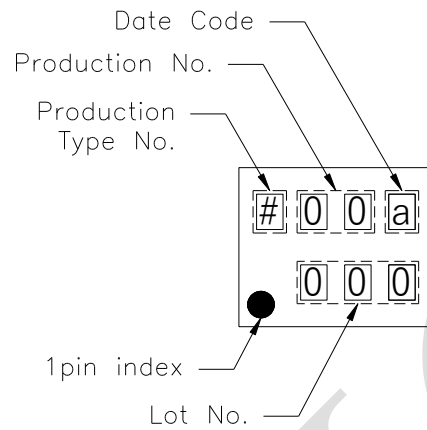


Rx Port Impedance





## Marking Information



Production type No. (S: Sample, P: Production)

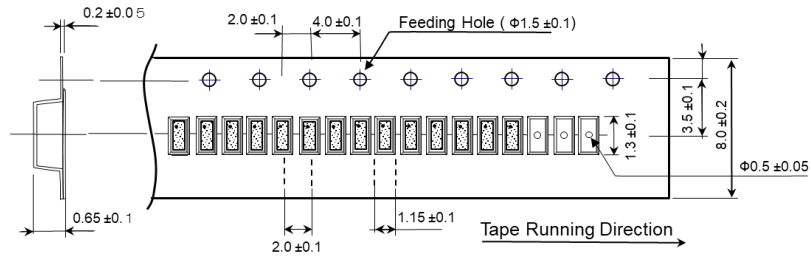
Product No. : 0A

Lot No. (Indicated by 0 ~ 9 or A to Z and a to z, except I, O, i, o and l)

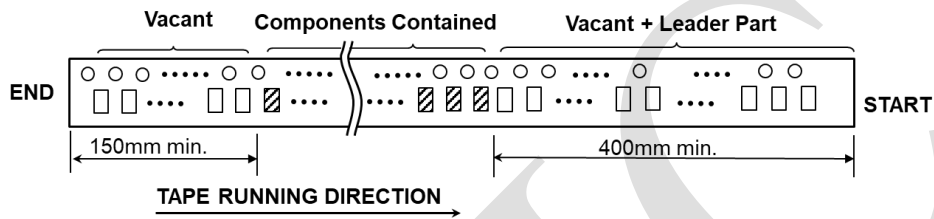
Product date code :

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2020	A	B	C	D	E	F	G	H	J	K	L	M
2021	N	P	Q	R	S	T	U	V	W	X	Y	Z
2022	a	b	c	d	e	f	g	h	j	k	l	m
2023	n	p	q	r	s	t	u	v	w	x	y	z

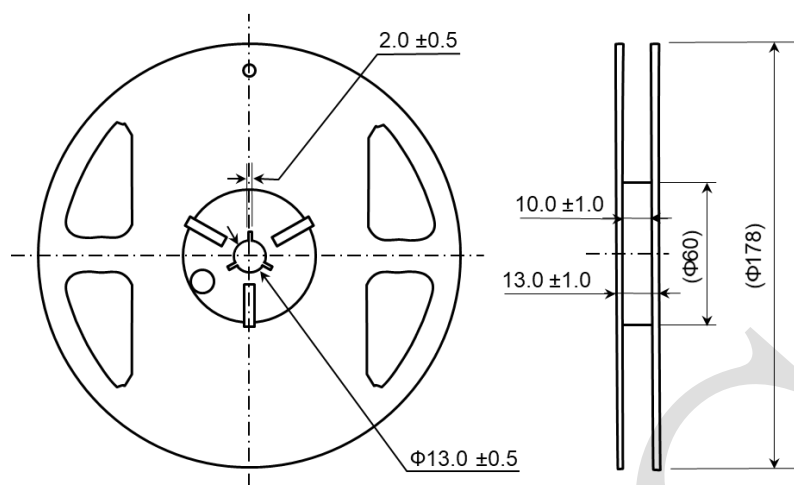
## Tape Information



UNIT: mm



## Reel Information



$\phi 178$  Reel Dimension

UNIT: mm

### Ordering Code

Part Number	Description
LAS1843A0A-SA	Bulk (few pieces)
LAS1843A0A-MB	Tape & Reel 3,000 pcs/reel
LAS1843A0A-MC	Tape & Reel 10,000 pcs/reel
LAS1843A0A-SZ	EVB

SALIC

### Revision History

Revision	Date	Description
1.0	Apr. 2, 2020	● Initial Release

SALIC

## Important Notice

The information contained herein is as of the date of issue. The products or all information contained herein is subject to change without notice. Xiamen Sanan Integrated Circuit Co., Ltd. and subsidiaries (hereinafter referred to as "Sanan") assumes no responsibility for errors or omissions in the information contained herein. Customers should verify the latest relevant information before ordering for Sanan products.

All of the contents may be used only for informational purposes by the customer. The information contained herein or any use of such information or Sanan products does not grant, either expressed or implied, to any party the intellectual property rights, patent rights, licenses and related rights. Sanan assume no responsibility for any damages and defects from the use of the information contained herein. Customers should verify Sanan products in actual condition and operating environment before using.

Sanan products are intended for use in mobile phone, PC, AV equipment, OA equipment, home electric appliances, office equipment, or other general electronic equipment. Sanan products are not warranted or authorized for use as critical components in aircraft, power plant, medical, life-saving, life-sustaining and other high reliability applications which can cause severe damages or personal injury or death.

The scope of the warranty of Sanan products is limited to products alone and Sanan does not assume any responsibility for any damages induced by the failure of the products without the express written agreement of Sanan.

Not to be used, duplicated, reproduced, modified, republished and revealed in whole or in part to others without the express written permission of Sanan.

Copyright © 2020 Xiamen Sanan Integrated Circuit Co., Ltd. All Rights Reserved.