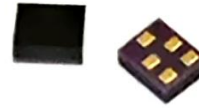


Data Sheet for SAW Components

Band3 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 Ω
- ◆ Moisture Sensitivity Level 3
- ◆ ESD Sensitive Device

Electrical Specifications Band3 Rx Single Filter

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 Rx								
	1805	-	1880	MHz	-	2.1	2.4	-
VSWR Ant								
	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

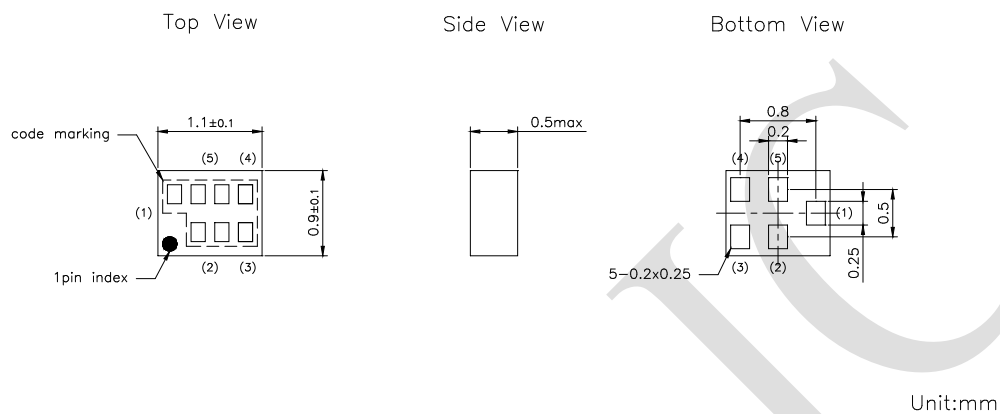
Maximum Ratings

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

Recommended Operating Conditions

Item	Rating	Condition / Remark
Operating Temperature, T _{CASE}	-30 to +85 °C	

Package Information



Pin Configuration

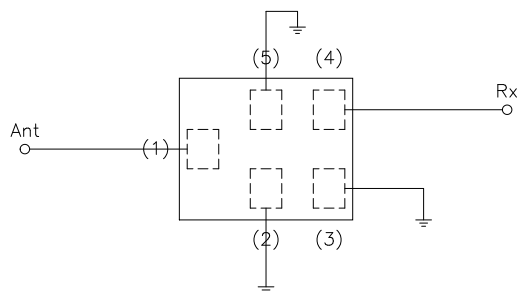
1 : Ant
 4 : Rx
 Other : GND

Technical drawing of a mechanical part with dimensions:

- Overall width: 1
- Overall height: 0.75
- Top horizontal segment: 0.8
- Top horizontal segment offset: 0.2
- Left vertical segment: 0.25
- Bottom horizontal segment: 0.6
- Right vertical segment: 0.25
- Right vertical segment offset: 0.5

Unit:mm

Application Circuit



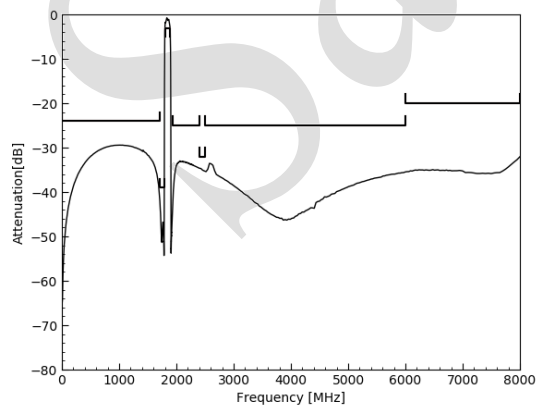
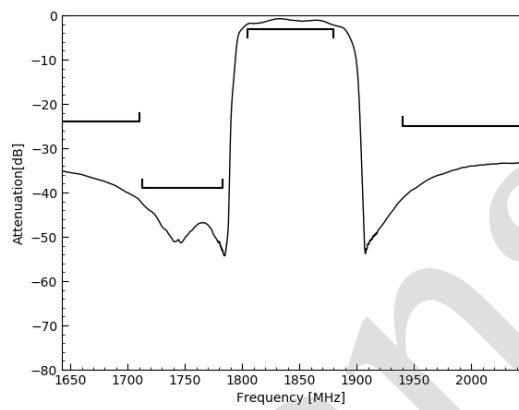
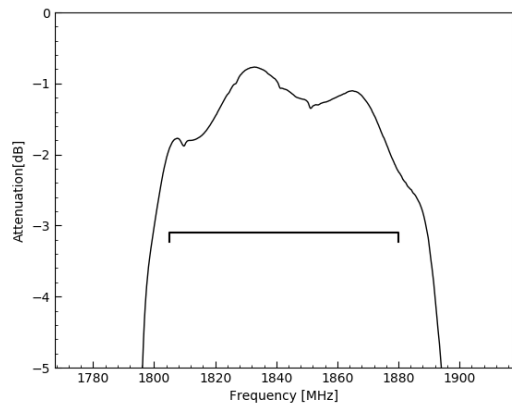
Port	Terminating Z	Matching Component		
Ant	50 Ω			
Rx	50 Ω			

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

Electrical Characteristics

Band3 Rx Single Filter

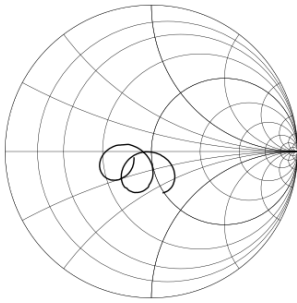
Ant to Rx



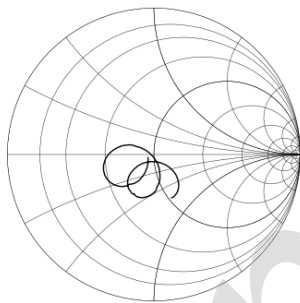
Electrical Characteristics

Band3 Rx Single Filter

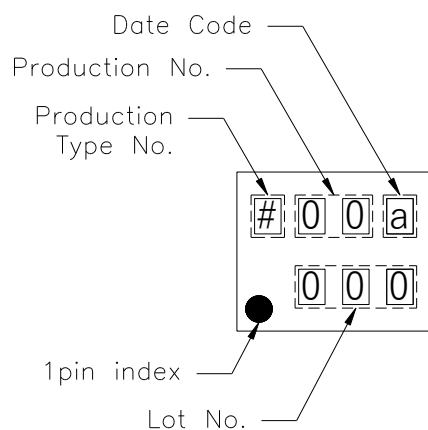
Ant Port Impedance



Rx Port Impedance



Marking Information



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

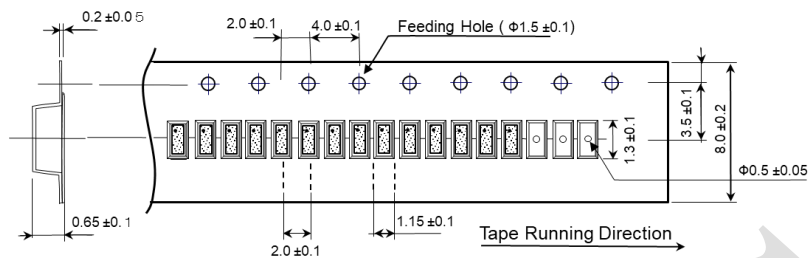
Product No. : 0A

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

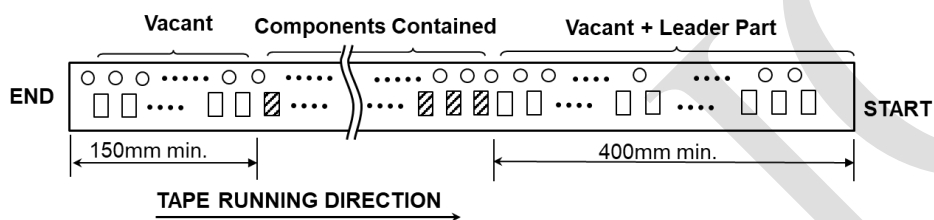
Product date code :

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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
2024	A	B	C	D	E	F	G	H	J	K	L	M

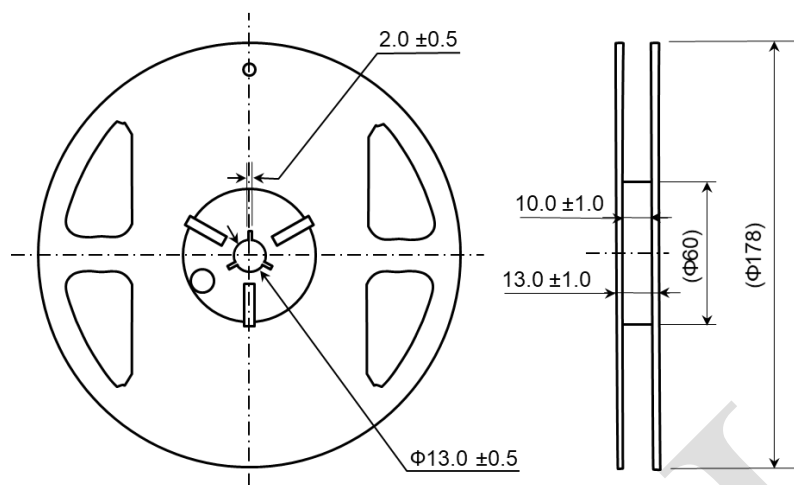
Tape Information



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

Revision History

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

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