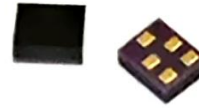


# Data Sheet for

## SAW Components

Band 28 Rx

Single Filter



Product ID: LAS0781A1N

Date: May 17, 2022

Revision: 1.1

### 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 Band 28 Rx Single Filter

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

Ant to Rx				Min.	Typ.	Max.	Unit
Insertion Loss							
	758.25	-	802.75 MHz	-	1.8	2.1	dB
Pass Band Ripple							
	758.25	-	802.75 MHz	-	0.7	1.7	dB
VSWR Ant							
	758.25	-	802.75 MHz	-	1.6	2.0	-
VSWR Rx							
	758.25	-	802.75 MHz	-	1.7	2.1	-
Absolute Attenuation							
	80	-	703 MHz	25	31	-	dB
	45	-	65 MHz	50	88	-	dB
	703	-	748 MHz	38	43	-	dB
	830	-	915 MHz	12	16	-	dB
	880	-	915 MHz	23	27	-	dB
	1516	-	1606 MHz	40	49	-	dB
	1710	-	1785 MHz	38	47	-	dB
	1850	-	1915 MHz	35	46	-	dB
	1920	-	2025 MHz	35	44	-	dB
	2274	-	2409 MHz	30	39	-	dB
	2400	-	2500 MHz	30	38	-	dB
	4900	-	5950 MHz	20	30	-	dB

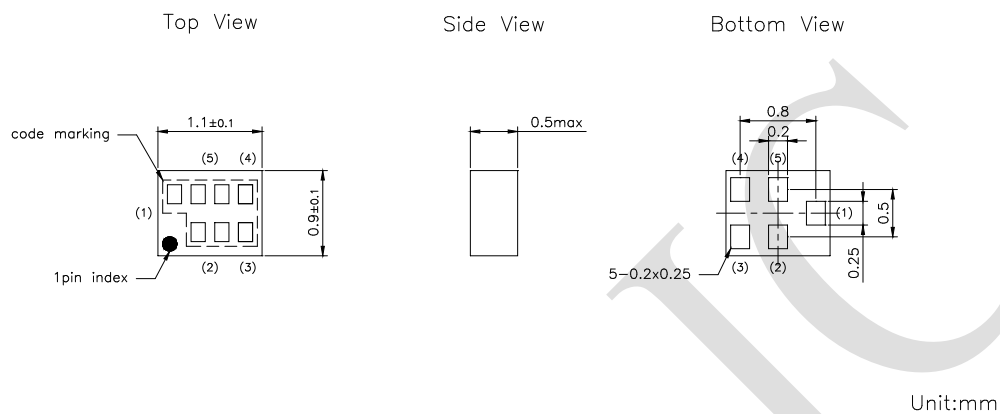
### Maximum Ratings

Item	Rating	Condition / Remark
Storage Temperature	-40 to +85 °C	
DC Voltage	5 V	+25 °C
Input power	+15 dBm	LTE , +55 °C , 3000 h

### Recommended Operating Conditions

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

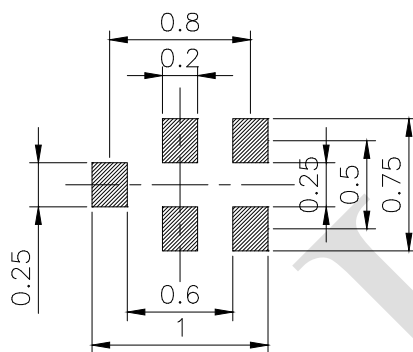
## Package Information



### Pin Configuration

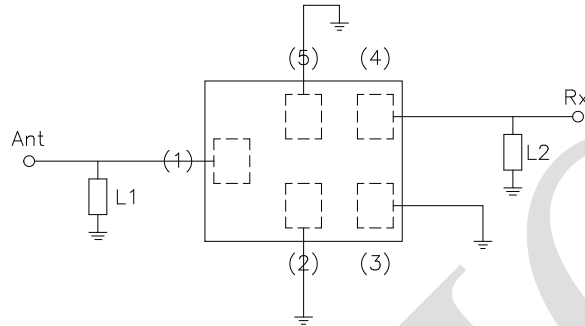
1 : Ant  
 4 : Rx  
 Other : GND

## Land Pattern



Unit:mm

## Application Circuit



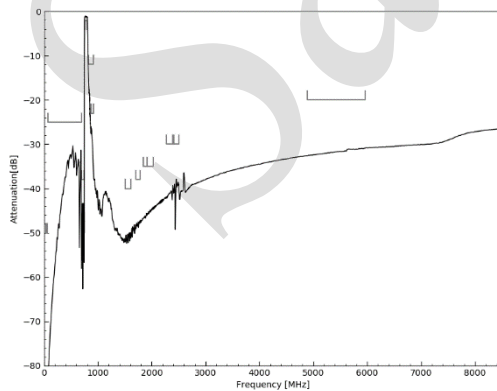
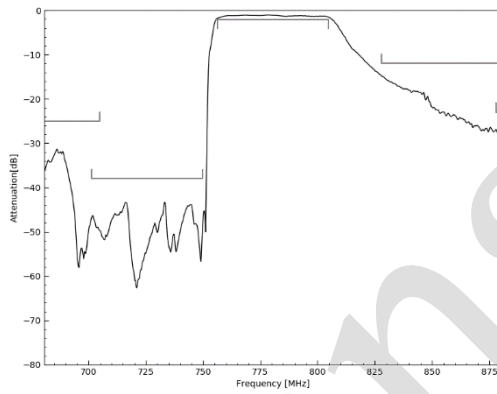
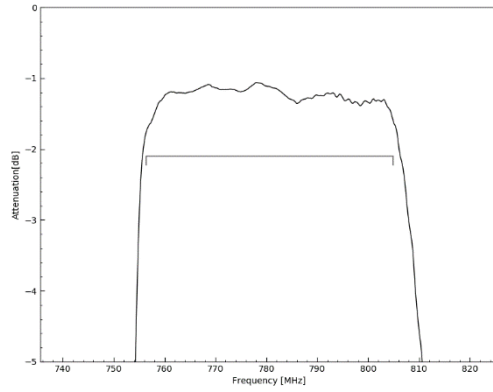
Port	Terminating Z	Matching Component
Ant	50 $\Omega$	L1 : 18nH (Ideal inductor)
Rx	50 $\Omega$	L2 : 8.2nH (Ideal inductor)

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

Electrical Characteristics

Band 28 Rx Single Filter

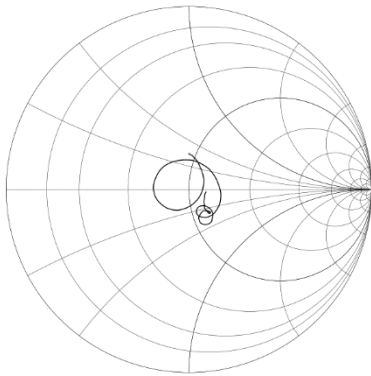
Ant to Rx



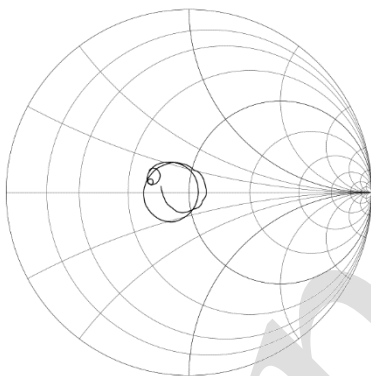
Electrical Characteristics

Band 28 Rx Single Filter

Ant Port Impedance

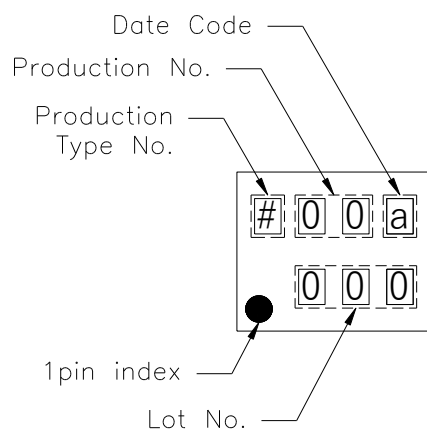


Rx Port Impedance





## Marking Information



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

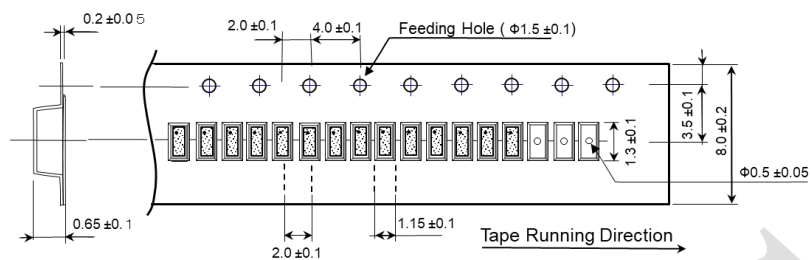
Product No. : 1N

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

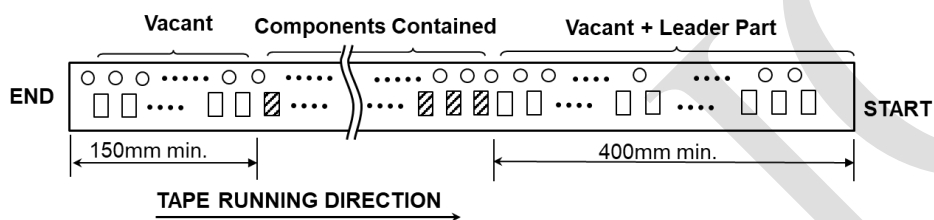
Product date code :

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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
2025	N	P	Q	R	S	T	U	V	W	X	Y	Z

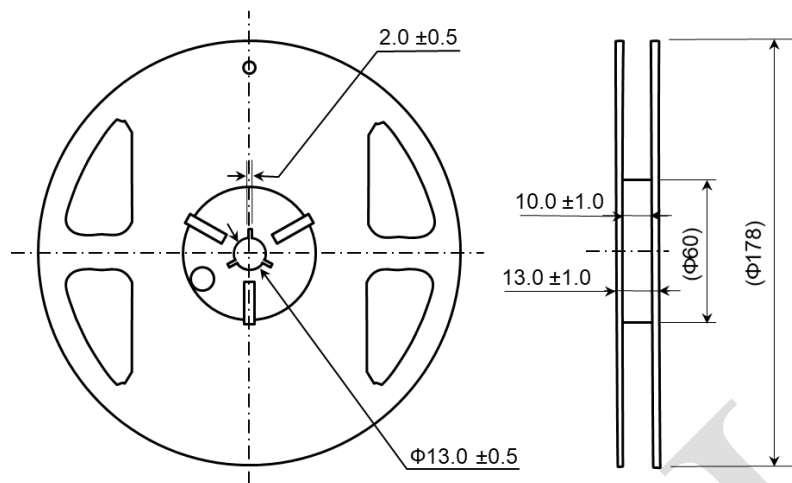
## Tape Information



UNIT: mm



## Reel Information



$\Phi 178$  Reel Dimension

UNIT: mm

### Ordering Code

Part Number	Description
LAS0781A1N-SA	Bulk (few pieces)
LAS0781A1N-MB	Tape & Reel 3,000 pcs/reel
LAS0781A1N-MC	Tape & Reel 10,000 pcs/reel
LAS0781A1N-SZ	EVB

### Revision History

Revision	Date	Description
1.0	Nov. 26, 2021	● Initial release
1.1	May 17, 2022	● MP
		●

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