

Data Sheet for SAW Components

Band66 Rx

Single Filter



Product ID: LAS2155A3N

Date: Aug 22, 2023

Revision: 0.2 Preliminary

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 Band66 Rx Single Filter

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

Ant to Rx					Min.	Typ.	Max.	Unit
Insertion Loss								
	2110	-	2200	MHz	-	2.1	2.4	dB
Pass Band Ripple								
	2110	-	2200	MHz	-	1.0	1.7	dB
VSWR Rx								
	2110	-	2200	MHz	-	1.4	2.0	-
VSWR Ant								
	2110	-	2200	MHz	-	1.4	2.0	-
Absolute Attenuation								
	10	-	925	MHz	50	62	-	dB
	1710	-	1780	MHz	42	46	-	dB
	1730	-	1920	MHz	42	45	-	dB
	1920	-	1980	MHz	41	44	-	dB
	2015	-	2075	MHz	26	32	-	dB
	2285	-	6130	MHz	27	32	-	dB
	2400	-	2500	MHz	38	41	-	dB
	4030	-	4150	MHz	30	37	-	dB
	4220	-	4340	MHz	30	36	-	dB
	4340	-	8475	MHz	20	30	-	dB
	4900	-	5950	MHz	27	32	-	dB
	5950	-	6130	MHz	27	32	-	dB
	6330	-	6510	MHz	25	31	-	dB

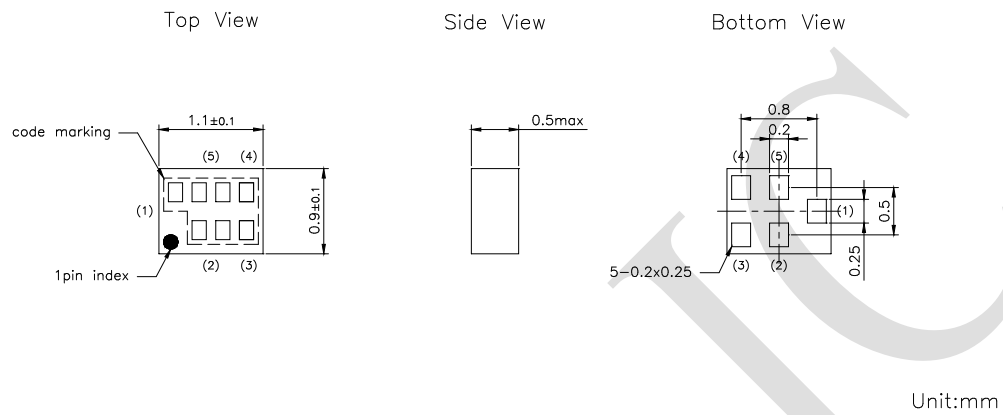
Maximum Ratings

Item	Rating	Condition / Remark
Storage Temperature	-40 to +85 °C	
DC Voltage	5 V	+25 °C
Input power	+15 dBm	LTE , +55 °C , 5000 h

Recommended Operating Conditions

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

Package Information



Pin Configuration

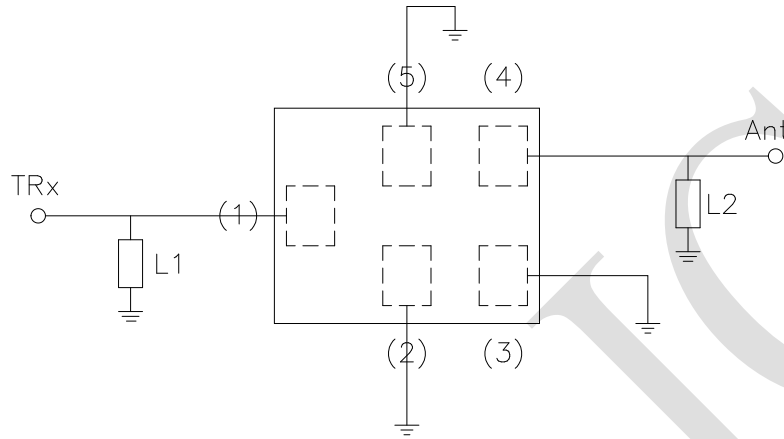
1 : Ant
 4 : Rx
 Other : GND

Technical drawing of a mechanical part with dimensions:

- Overall width: 1.0
- Overall height: 0.75
- Top horizontal dimension: 0.8
- Top horizontal dimension (inner): 0.2
- Bottom horizontal dimension: 0.6
- Left vertical dimension: 0.25
- Right vertical dimension (inner): 0.25
- Right vertical dimension (middle): 0.5

3

Application Circuit



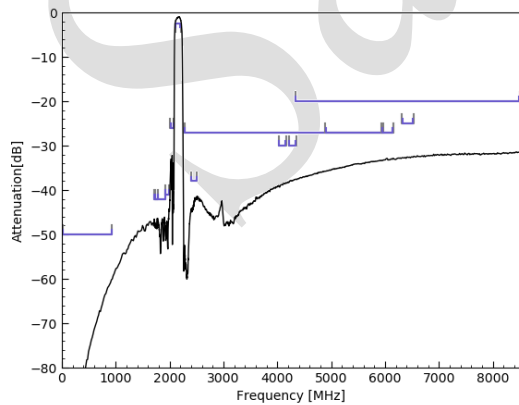
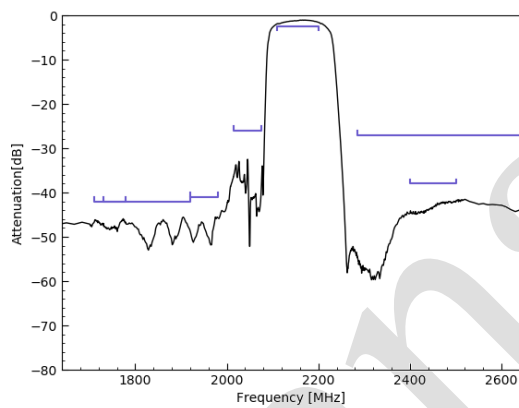
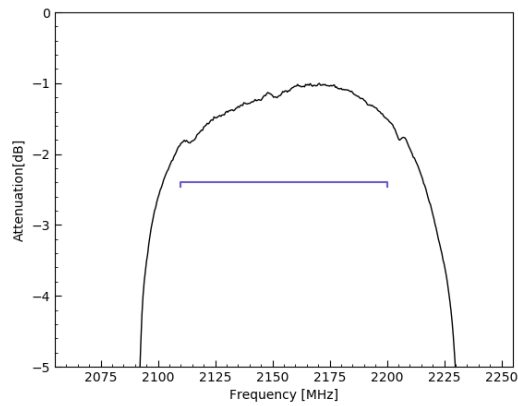
Port	Terminating Z	Matching Component
Ant	50 Ω	L1 : 3.3nH (Ideal inductor)
Rx	50 Ω	L2 : 3.6nH (Ideal inductor)

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

Electrical Characteristics

Band66 Rx Single Filter

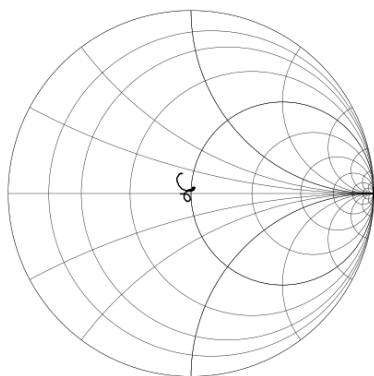
TRx to Ant



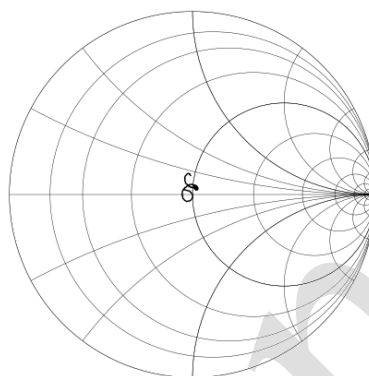
Electrical Characteristics

Band66 Rx Single Filter

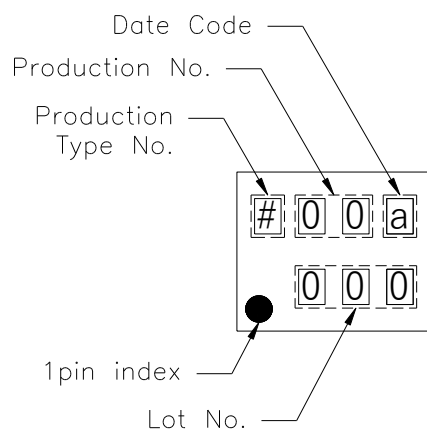
TRx Port Impedance



Ant Port Impedance



Marking Information



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

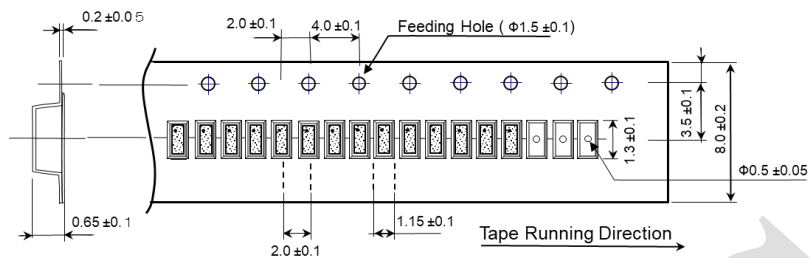
Product No. : 3N

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

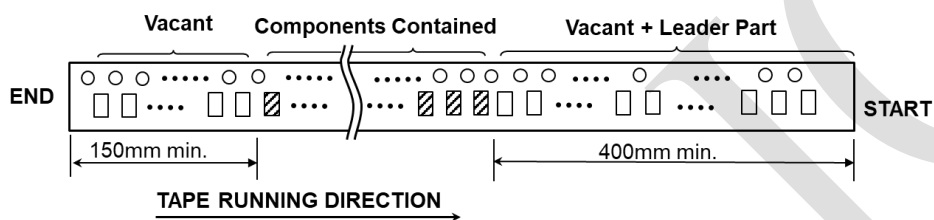
Product date code :

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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
2026	a	b	c	d	e	f	g	h	j	k	l	m

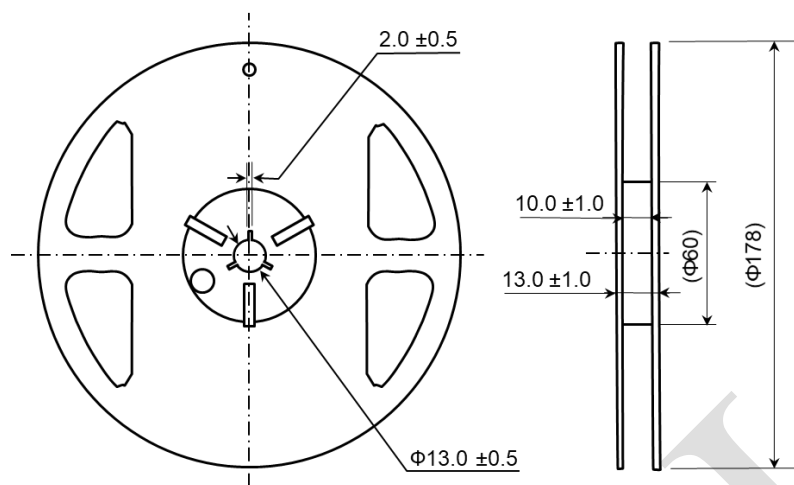
Tape Information



UNIT: mm



Reel Information



$\Phi 178$ Reel Dimension

UNIT: mm

Ordering Code

Part Number	Description
LAS2155A3N-SA	Bulk (few pieces)
LAS2155A3N-MB	Tape & Reel 3,000 pcs/reel
LAS2155A3N-MC	Tape & Reel 10,000 pcs/reel
LAS2155A3N-SZ	EVB

Revision History

Revision	Date	Description
0.1	Jul. 12, 2023	● Initial release
0.2	Aug. 22, 2023	● Corrected product no.
		●

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