

Data Sheet for SAW Components

Band 41 Rx

Single Filter



Product ID: LAS2593A0N

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

Electrical Specifications Band 41 Rx Single Filter

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

Ant to Rx					Min.	Typ.	Max.	Unit
Insertion Loss								
	2496	-	2690	MHz	-	2.3	3.0	dB
	2515	-	2675	MHz	-	1.8	2.2	dB
Pass Band Ripple								
	2496	-	2690	MHz	-	0.6	1.0	dB ^{*1}
VSWR Ant								
	2496	-	2690	MHz	-	1.5	2.3	-
VSWR Rx								
	2496	-	2690	MHz	-	1.6	2.3	-
Absolute Attenuation								
	703	-	748	MHz	40	61	-	dB
	814	-	849	MHz	40	58	-	dB
	880	-	915	MHz	40	56	-	dB
	1248	-	1345	MHz	35	45	-	dB
	1710	-	1785	MHz	30	36	-	dB
	1850	-	1915	MHz	30	34	-	dB
	1920	-	1980	MHz	30	34	-	dB
	2401	-	2463	MHz	20	36	-	dB _{INT} ^{*2}
	2446	-	2468	MHz	14	35	-	dB _{INT} ^{*2}
	2451	-	2473	MHz	8.0	29	-	dB _{INT} ^{*2}
	2750	-	2775	MHz	15	29	-	dB
	2775	-	8500	MHz	15	25	-	dB
	4900	-	5950	MHz	23	30	-	dB
	4992	-	5380	MHz	15	32	-	dB
	7488	-	8070	MHz	15	26	-	dB

*1: Over any 10 MHz in band

*2: Integrated |S₂₁| over the center 18 MHz CH BW and converting to dB value

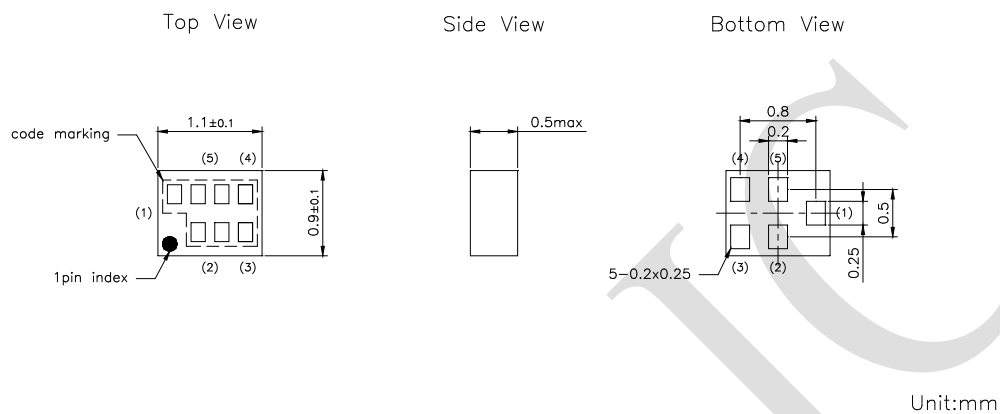
Maximum Ratings

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 _{CASE}	-30 to +85 °C	

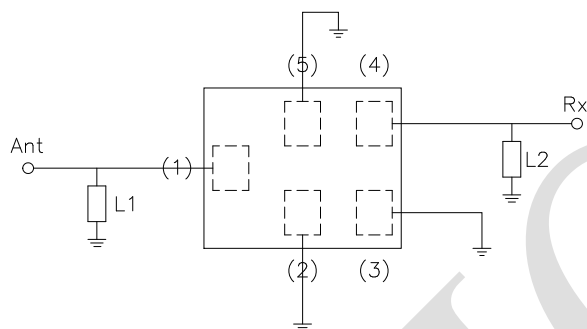
Package Information



Pin Configuration

1	:	Ant
4	:	Rx
Other	:	GND

Application Circuit



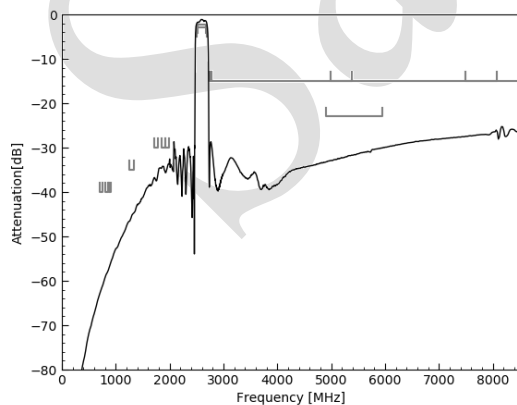
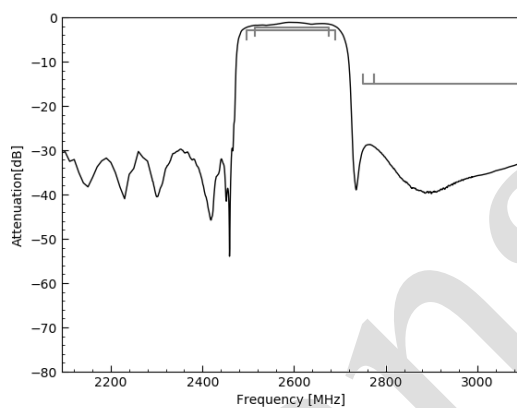
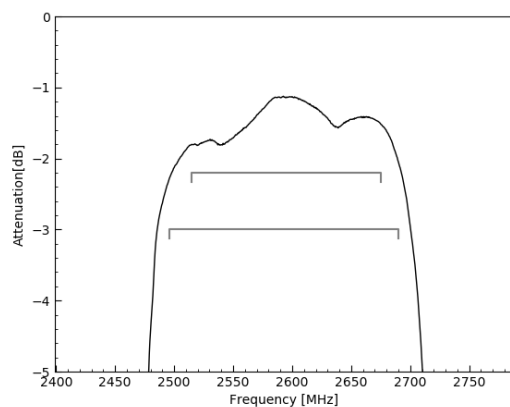
Port	Terminating Z	Matching Component
Ant	50 Ω	L1 : 2.5nH (Ideal inductor)
Rx	50 Ω	L2 : 2.5nH (Ideal inductor)

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

Electrical Characteristics

Band 41 Rx Single Filter

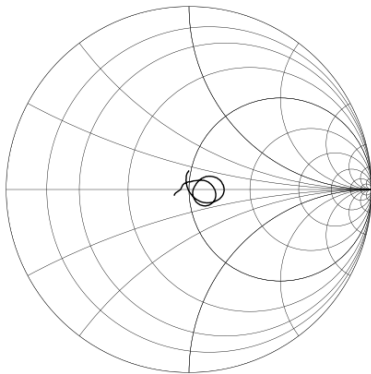
Ant to Rx



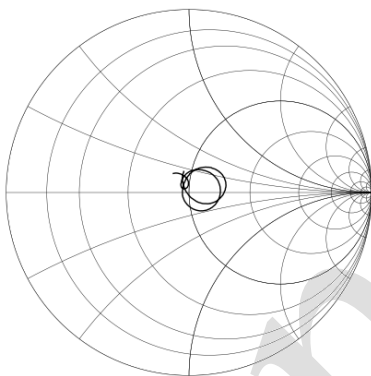
Electrical Characteristics

Band 41 Rx Single Filter

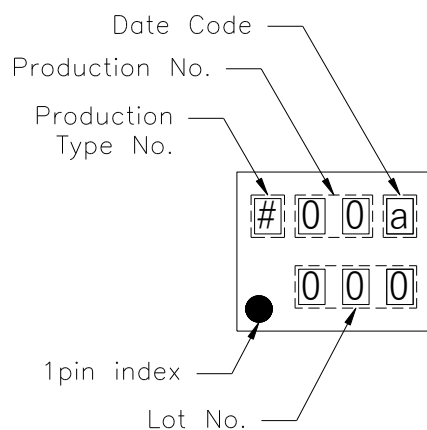
Ant Port Impedance



Rx Port Impedance



Marking Information



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

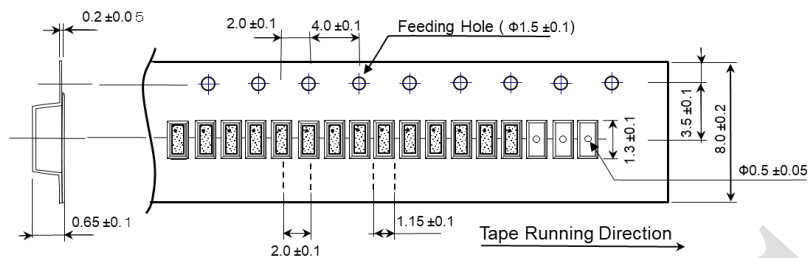
Product No. : 0N

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

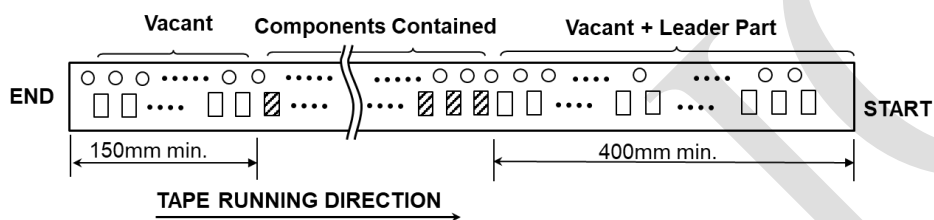
Product date code :

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

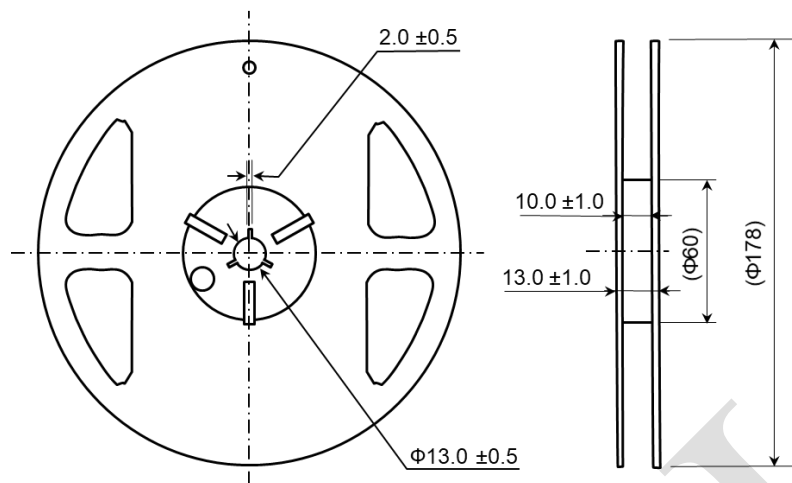
Tape Information



UNIT: mm



Reel Information



$\Phi 178$ Reel Dimension

UNIT: mm

Ordering Code

Part Number	Description
LAS2593A0N-SA	Bulk (few pieces)
LAS2593A0N-MB	Tape & Reel 3,000 pcs/reel
LAS2593A0N-MC	Tape & Reel 10,000 pcs/reel
LAS2593A0N-SZ	EVB

Revision History

Revision	Date	Description
1.0	Nov. 16, 2021	● Initial release
1.1	May 17, 2022	● MP

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