

Data Sheet for

SAW Components

Band 1 Rx

Single Filter



Product ID: LAS2140A18

Date: Jan. 15, 2021

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 1 Rx Single Filter

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

Tx to Ant					Min.	Typ.	Max.	Unit
Insertion Loss								
	2110	-	2170	MHz	-	1.5	2.3	dB
Pass Band Ripple								
	2110	-	2170	MHz	-	0.5	1.2	dB
VSWR								
	2110	-	2170	MHz	-	1.6	2.0	-
Absolute Attenuation								
			190	MHz	48	54	-	dB
			400	MHz	42	49	-	dB
	699	-	716	MHz	37	45	-	dB
	777	-	787	MHz	37	44	-	dB
	810	-	830	MHz	37	44	-	dB
	814	-	849	MHz	37	44	-	dB
	880	-	915	MHz	37	43	-	dB
	898	-	925	MHz	37	43	-	dB
	1710	-	1755	MHz	37	44	-	dB
	1730	-	1920	MHz	37	41	-	dB
	1920	-	1980	MHz	42	48	-	dB
	2015	-	2075	MHz	7	19	-	dB
	2185	-	6130	MHz	1	2.5	-	dB
	2400	-	2500	MHz	37	42	-	dB
	4030	-	4150	MHz	40	55	-	dB
	4220	-	4340	MHz	40	54	-	dB
	4340	-	8000	MHz	15	36	-	dB
	4900	-	5950	MHz	35	41	-	dB
	5950	-	6130	MHz	35	40	-	dB
	6330	-	6510	MHz	35	39	-	dB

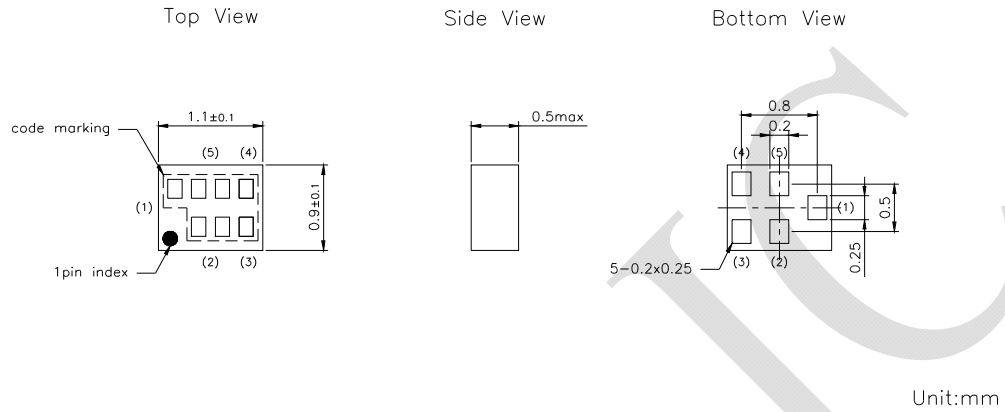
Maximum Ratings

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	

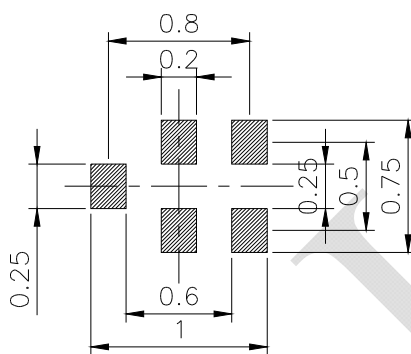
Package Information



Pin Configuration

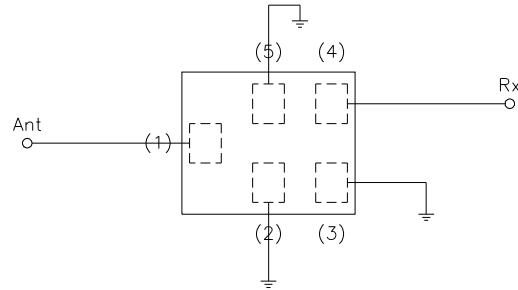
1 : Ant
 4 : Rx
 Other : GND

Land Pattern



Unit:mm

Application Circuit



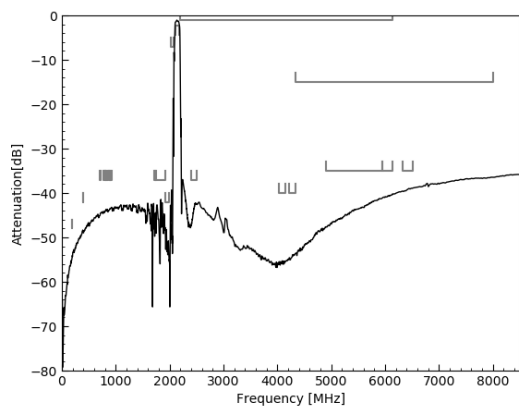
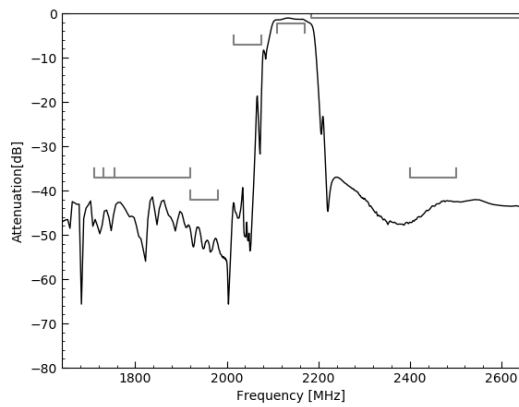
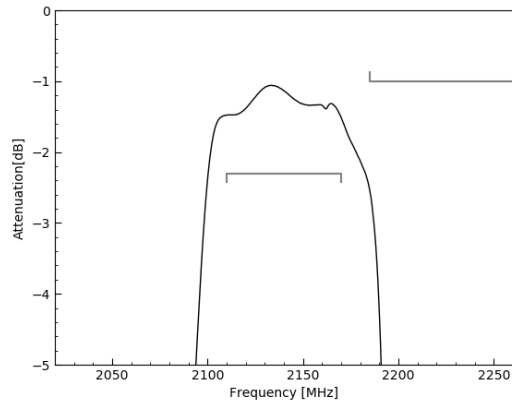
Port	Terminating Z	Matching Component
Ant	50 Ω	
Rx	50 Ω	

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

Electrical Characteristics

Band 1 Rx Single Filter

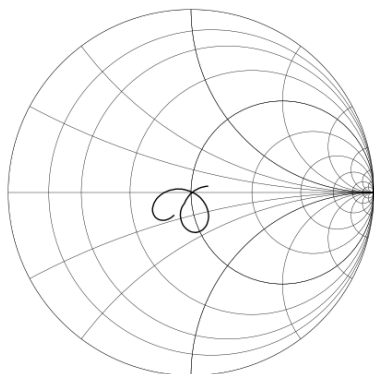
Ant to Rx



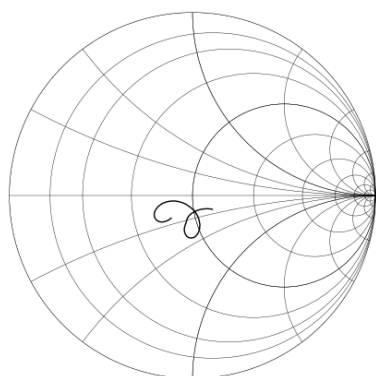
Electrical Characteristics

Band 1 Rx Single Filter

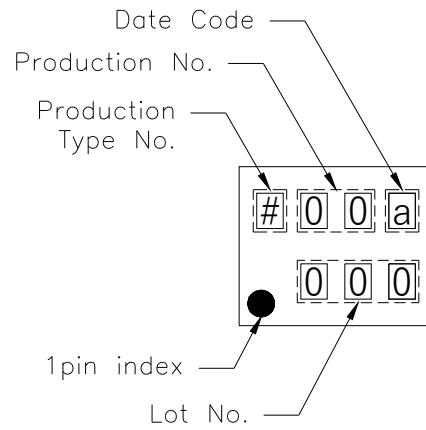
Ant Port Impedance



Rx Port Impedance



Marking Information



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

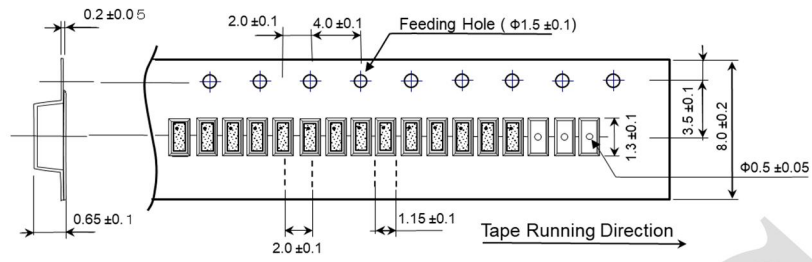
Product No. : 18

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

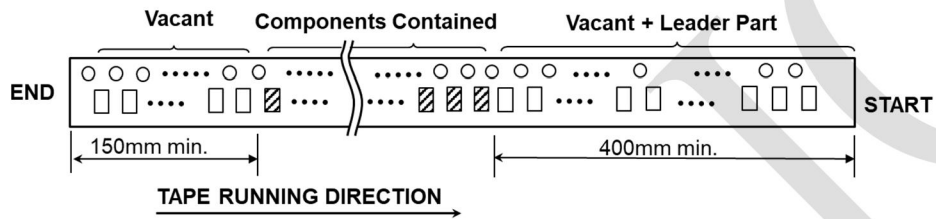
Product date code :

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

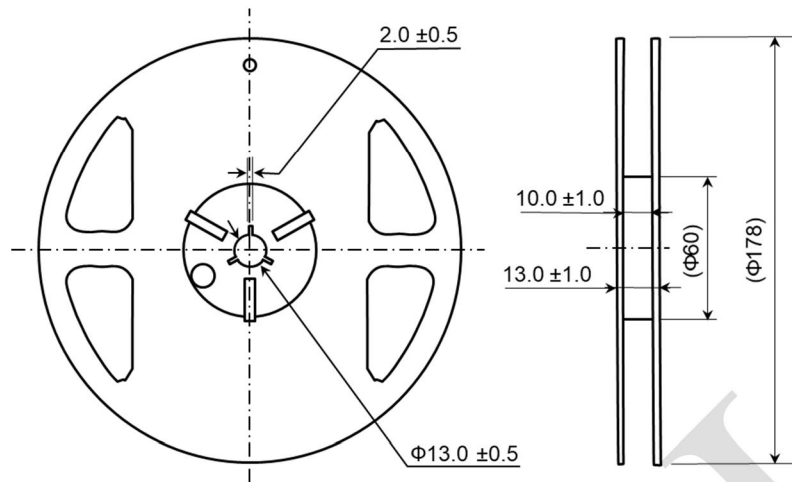
Tape Information



UNIT: mm



Reel Information



$\Phi 178$ Reel Dimension

UNIT: mm

Ordering Code

Part Number	Description
LAS2140A18-SA	Bulk (few pieces)
LAS2140A18-MB	Tape & Reel 3,000 pcs/reel
LAS2140A18-MC	Tape & Reel 10,000 pcs/reel
LAS2140A18-SZ	EVB

Revision History

Revision	Date	Description
1.1	Mar. 30, 2021	● Updated front cover
1.0	Jan. 15, 2021	● Initial release

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