

Data Sheet for

SAW Components

SATCOM Tx

Single Filter



Product ID: LAS1995A3K

Date: Aug 30, 2023

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 SATCOM Tx Single Filter

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

Tx to Ant					Min.	Typ.	Max.	Unit
Insertion Loss								
	1980	-	2010	MHz	-	1.1	1.5	dB
	1980	-	2010	MHz	-	0.9	1.3 ^{*1}	dB
Pass Band Ripple								
	1980	-	2010	MHz	-	0.4	0.8	dB
VSWR Ant								
	1980	-	2010	MHz	-	1.4	1.8	-
VSWR Tx								
	1980	-	2010	MHz	-	1.4	1.8	-
Absolute Attenuation								
	30	-	1920	MHz	25	30	-	dB
	1920	-	2070	MHz	0.3	0.8	-	dB
	2070	-	8500	MHz	25	32	-	dB

*1 : Ta=25°C

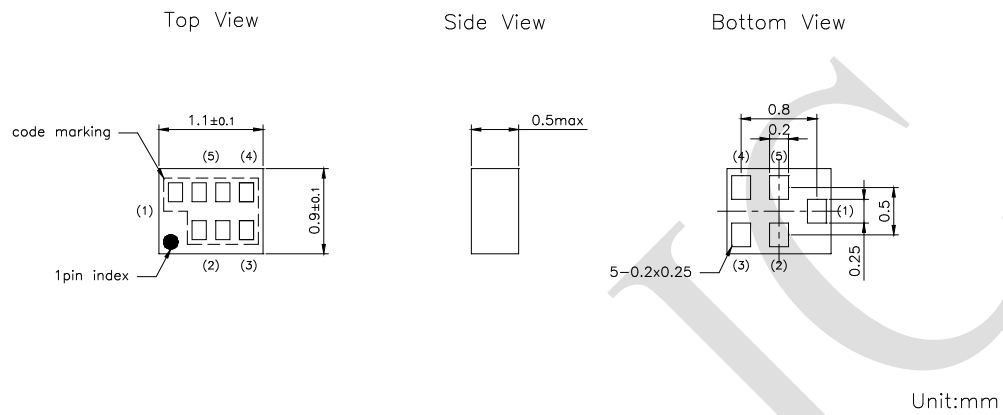
Maximum Ratings

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

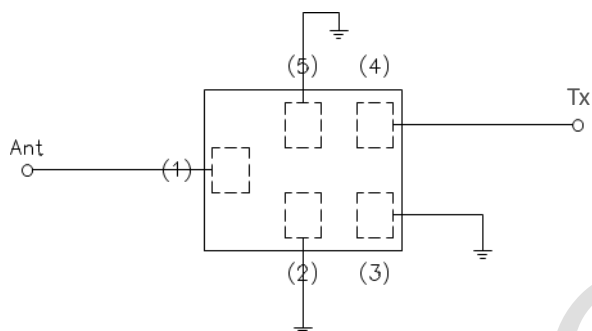
1 : Ant
 4 : Tx
 Other : GND

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



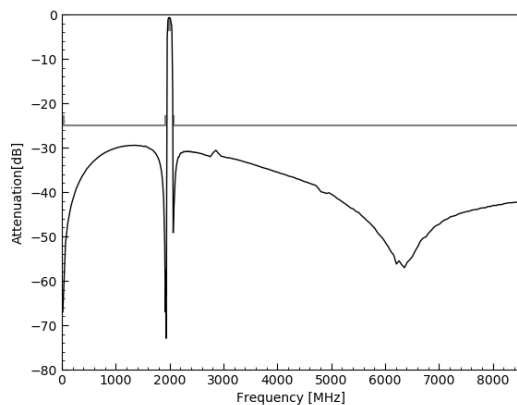
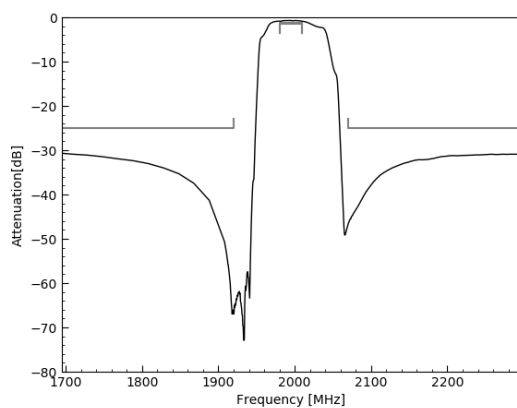
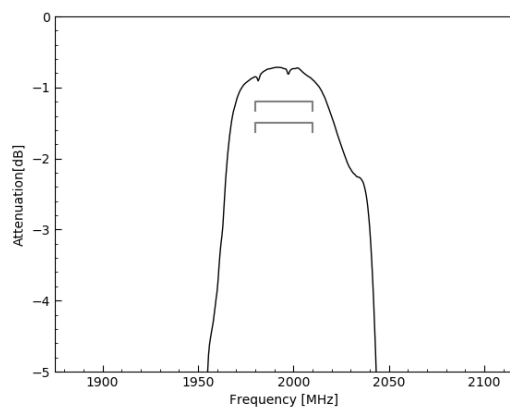
Port	Terminating Z	Matching Component
Ant	50 Ω	
Tx	50 Ω	

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

Electrical Characteristics

SATCOM Tx Single Filter

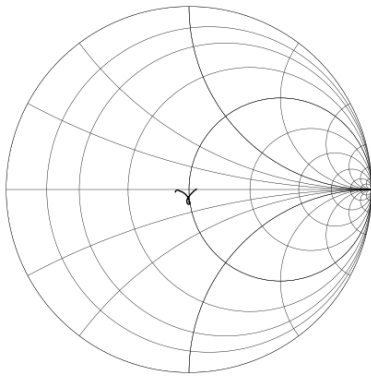
Tx to Ant



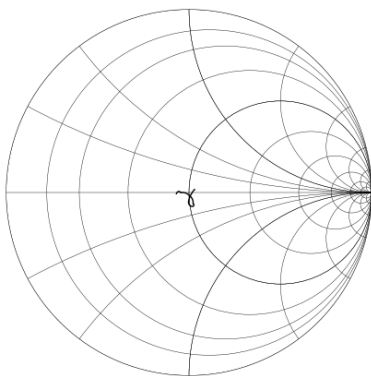
Electrical Characteristics

SATCOM Tx Single Filter

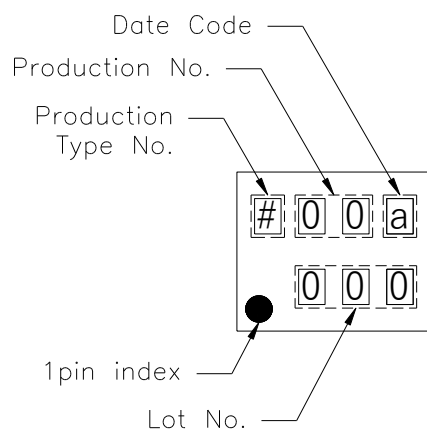
Tx Port Impedance



Ant Port Impedance



Marking Information



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

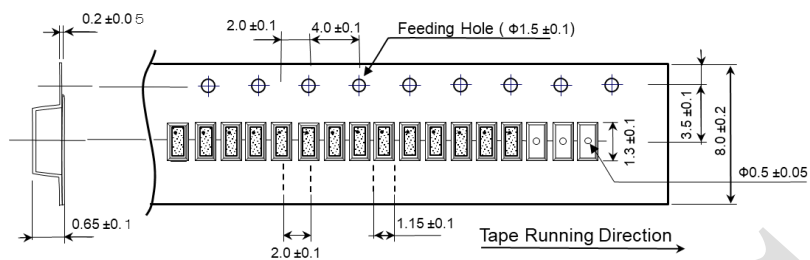
Product No. : 3K

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

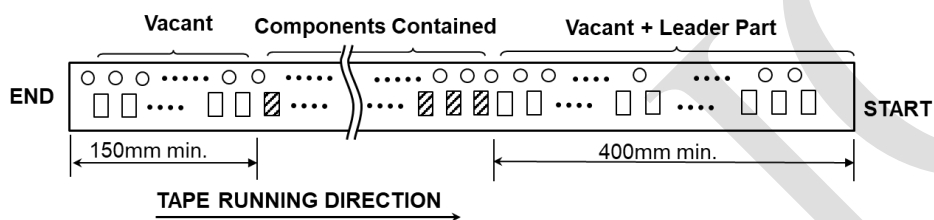
Product date code :

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

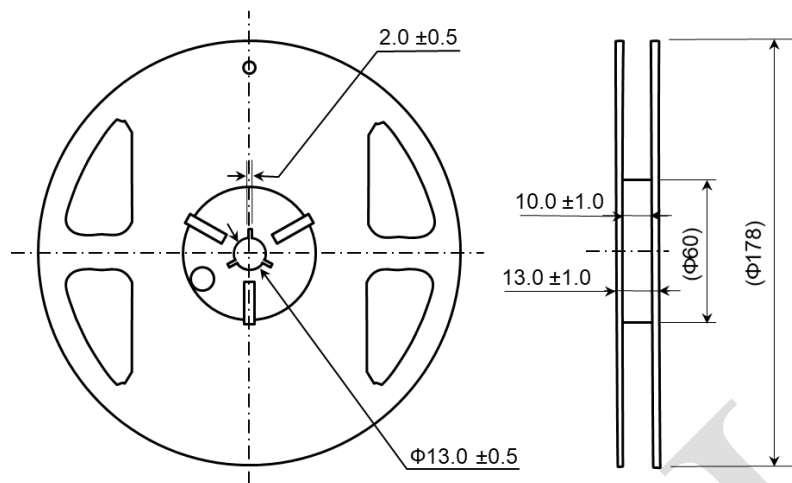
Tape Information



UNIT: mm



Reel Information



$\Phi 178$ Reel Dimension

UNIT: mm

Ordering Code

Part Number	Description
LAS1995A3K-SA	Bulk (few pieces)
LAS1995A3K-MB	Tape & Reel 3,000 pcs/reel
LAS1995A3K-MC	Tape & Reel 10,000 pcs/reel
LAS1995A3K-SZ	EVB

Revision History

Revision	Date	Description
0.1	Jan. 17, 2023	● Initial release
1.0	Aug. 30, 2023	● Update version
		●

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