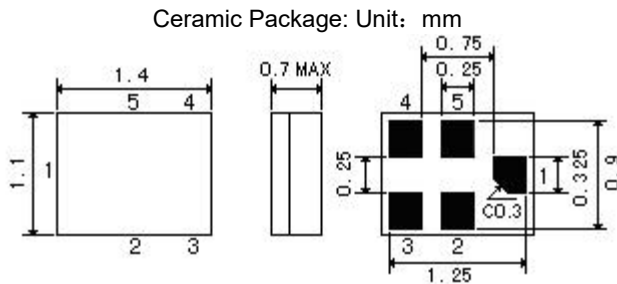


Features

SAW filter for Beidou & GPS & GLONASS.

- 1 High stability and reliability with good performance and no adjustment.
- 2 Narrow and sharp pass band characteristics. RoHS compatible.
- 3 Low insertion loss and deep stop band attenuation for interference.
- 4 Low – loss SAW filter for GPS.
- 5 Package size 1.4*1.1

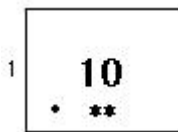
Package Dimensions



Pin Configuration

1	Input
4	Output
2,3,5	Ground

Marking



Top View, Laser Marking

"10": Part number

"1": Terminal1

The first "*": Month Code (The code shown below varies in a 4-year cycle)

Month	1	2	3	4	5	6	7	8	9	10	11	12
2016/2020	n	p	q	r	s	t	u	v	w	x	y	z
2017/2021	A	B	C	D	E	F	G	H	J	K	L	M
2018/2022	N	P	Q	R	S	T	U	V	W	X	Y	Z
2019/2023	a	b	c	d	e	f	g	h	i	j	k	m

The second "*": Date Code


data	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	
code	A	B	C	D	E	F	G	H	J	K	
data	11th	12th	13th	14th	15th	16th	17th	18th	19th	20th	
code	L	M	N	P	Q	R	S	T	U	V	
data	21st	22nd	23rd	24th	25th	26th	27th	28th	29th	30th	31th
code	W	X	Y	Z	a	b	d	e	f	g	h

Maximum Ratings

Rating		Value	Unit
DC Voltage (between any Terminals)	V_{DC}	10	V
RF Power (in BW)	P	13	dBm
Operating Temperature Range	T_A	-40 ~ +85	°C
Storage Temperature Range	T_{stg}	-40 ~ +85	°C

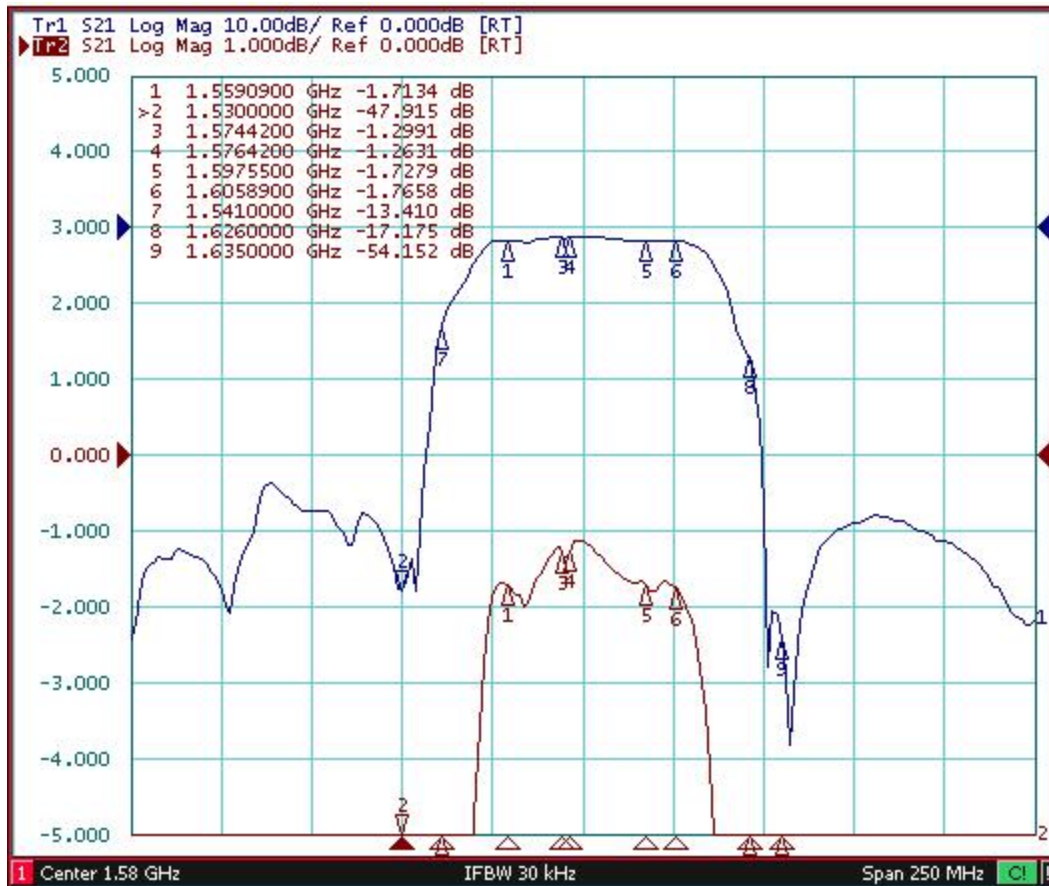
Electrical Characteristics:

Item		Minimum	Typical	Maximum	Unit	
Insertion Loss	IL					
		1559.09 1563.09 MHz		1.8	2.1	dB
		1574.42 1576.42 MHz		1.3	1.6	dB
		1597.55 1605.89 MHz		1.8	2.1	dB
Passband Ripple	Pr					
		1559.09 1563.09 MHz		0.2	0.5	dB
		1574.42 1576.42 MHz		0.2	0.4	dB
		1597.55 1605.89 MHz		0.3	0.6	dB
VSWR	V_{swr}					
		1559.09 1563.09 MHz		1.6	1.9	
		1574.42 1576.42 MHz		1.2	1.6	
		1597.55 1605.89 MHz		1.3	1.8	
Group delay Ripple	Gdr					
		1559.09 1563.09 MHz		2	7	ns
		1574.42 1576.42 MHz		2	7	ns
		1597.55 1605.89 MHz		2	8	ns
Absolute Attenuation	α					
		DC 925.00 MHz	45	50		dB
		925.00 960.00 MHz	43	50		dB
		1427.00 1453.00 MHz	41	47		dB
		1453.00 1470.00 MHz	40	45		dB
		1470.00 1530.00 MHz	30	35		dB
		1530.00 1541.00MHz	7	13		dB
		1626.00 1635.00 MHz	10	17		dB
		1635.00 1700.00 MHz	33	37		dB
		1710.00 1785.00 MHz	45	50		dB
		1850.00 1910.00 MHz	43	48		dB
		1920.00 1980.00 MHz	42	48		dB
		2110.00 2170.00 MHz	40	45		dB
		2300.00 2400.00 MHz	40	44		dB
		2400.00 2500.00 MHz	39	43		dB
2500.00 2570.00 MHz	38	42		dB		
2570.00 3000.00 MHz	33	39		dB		
Input / Output Impedance (Nominal)			50		Ω	

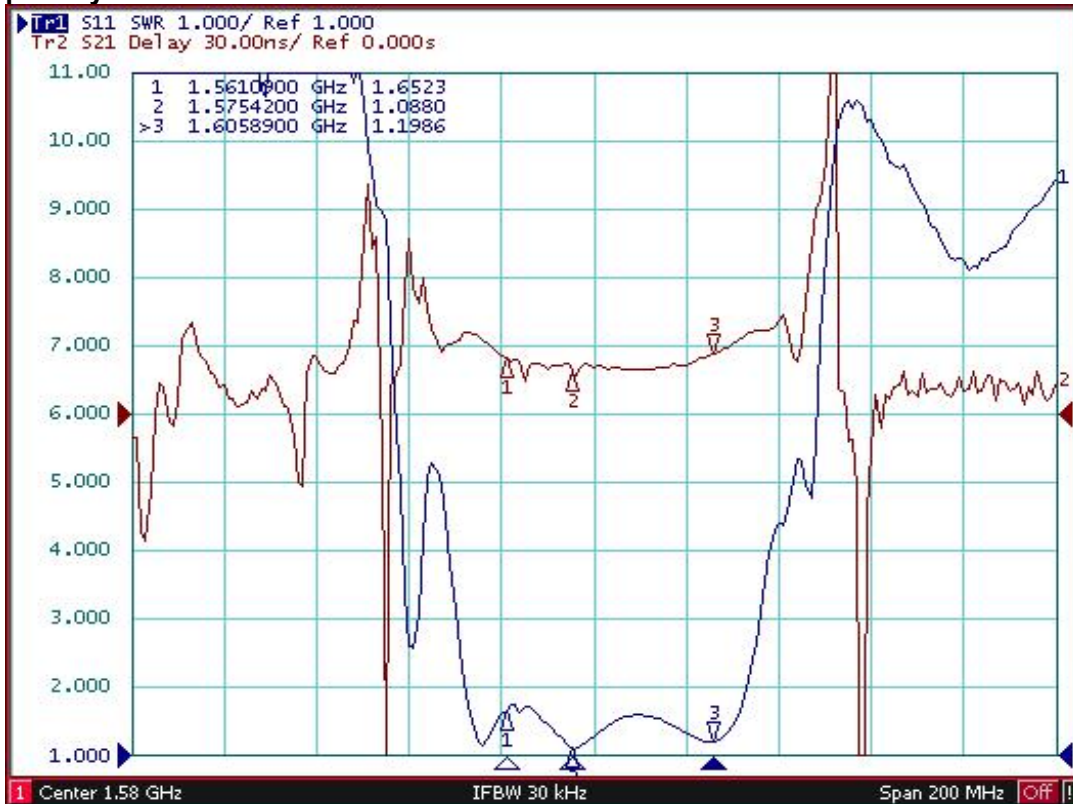
 **RoHS Compliant**
 **Electrostatic Sensitive Device**

Typical Frequency Response

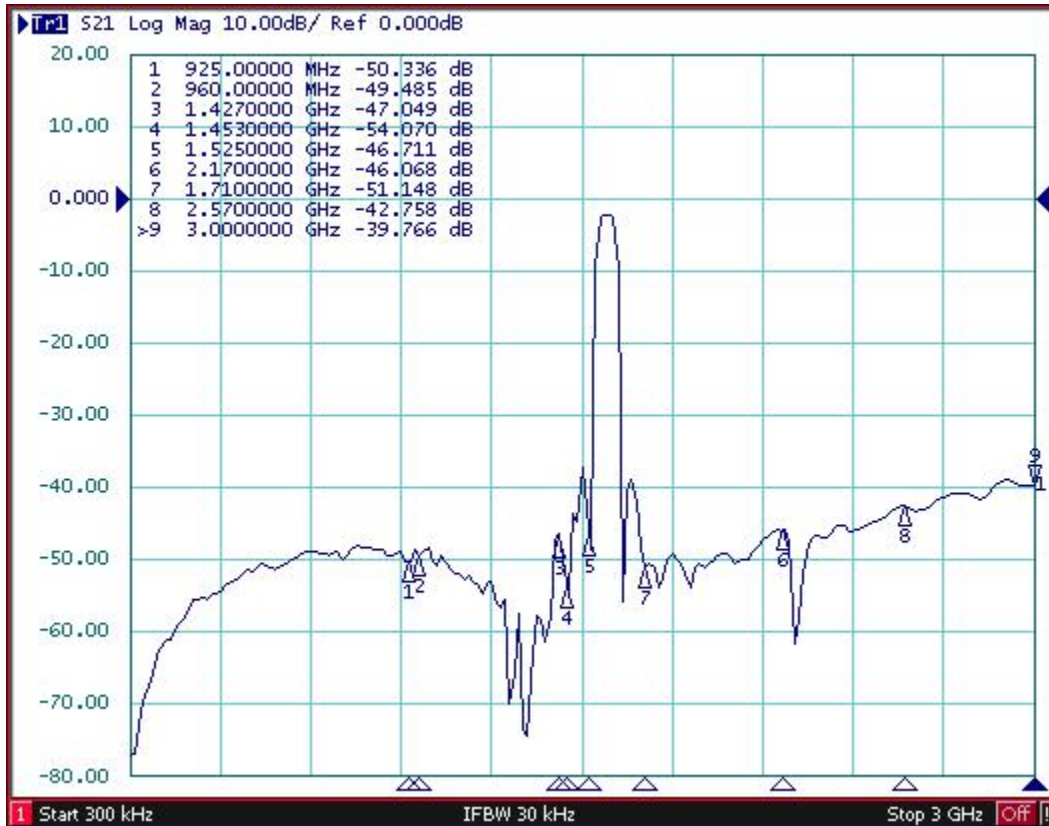
S21



S11 Group Delay

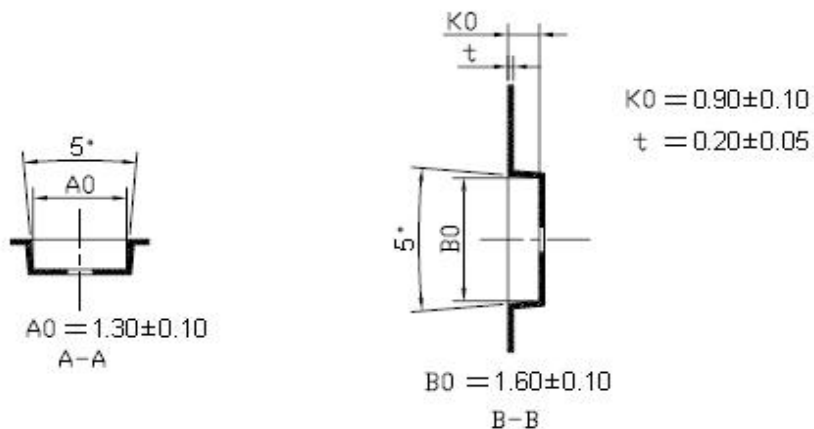
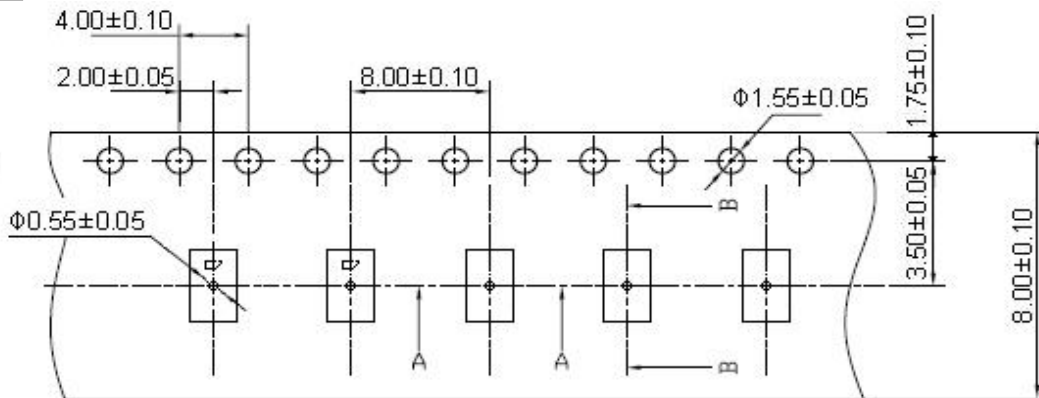


Far side

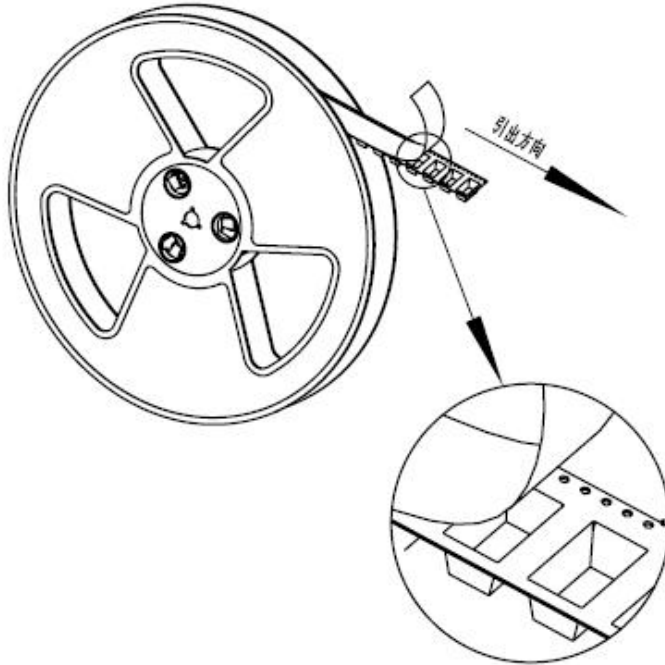


Packing Information

Carrier Tape



Reel Dimensions



Material	PS
Unit	mm
Tolerance	±0.20 mm
Quantity	3000/reel

Outer Packing

Type	Quantity	Dimension	Description	Weight
Carton Box I	24000	200×200×100	anti-static plastic bag & carton box 1 reel / bag	0.85
Carton Box II	45000	200×200×200	8 bags / box (24000 pcs) 15 bags / box (45000 pcs)	1.80

Unit: mm

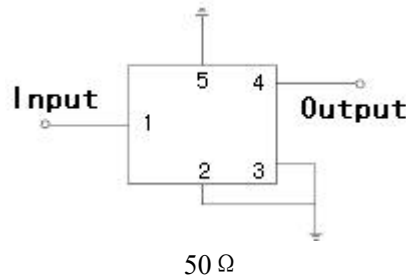
Unit: kg

Requirements: The SAW filter shall remain within the electrical specifications after tests.

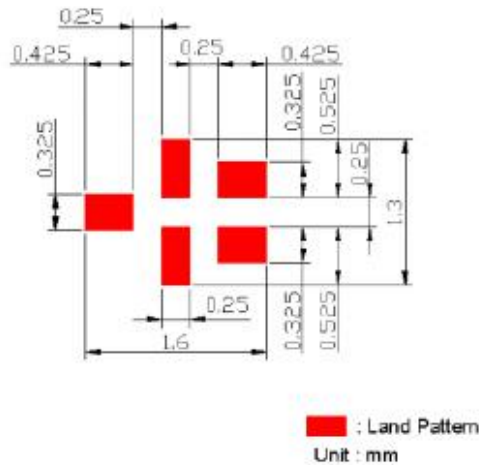
Remarks

- SAW devices should not be used in any type of fluid such as water, oil, organic solvent, etc.
- Be certain not to apply voltage exceeding the rated voltage of components.
- Do not operate outside the recommended operating temperature range of components.
- Sudden change of temperature shall be avoided, deterioration of the characteristics can occur.
- Be careful of soldering temperature and duration of components when soldering.
- Do not place soldering iron on the body of components.
- Be careful not to subject the terminals or leads of components to excessive force.
- SAW devices are electrostatic sensitive. Please avoid static voltage during operation and storage.
- Ultrasonic cleaning shall be avoided. Ultrasonic vibration may cause destruction of components.

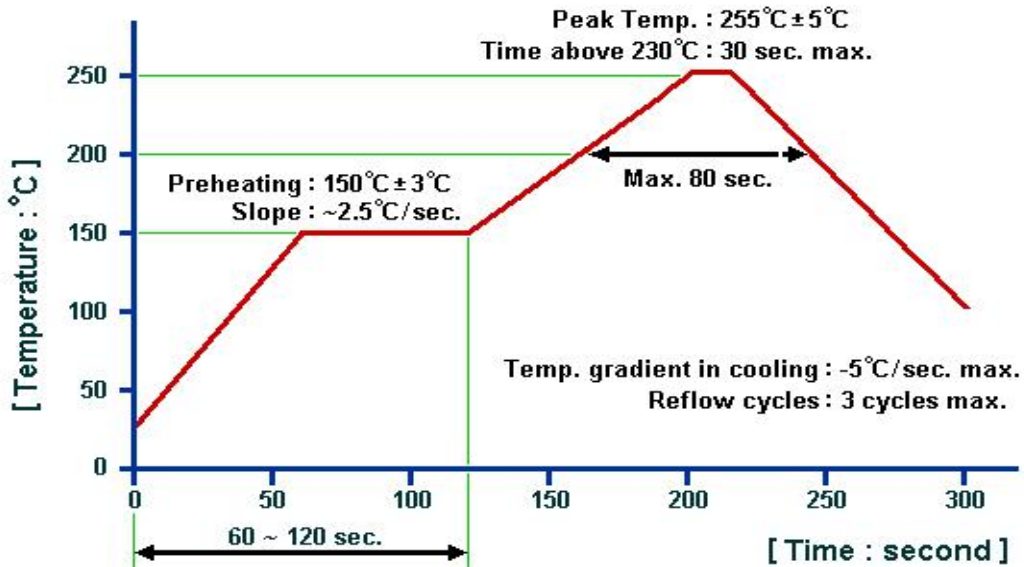
Test Circuit



PCB Footprint



Recommended Soldering Profile



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1. The specifications of this device are subject to change or obsolescence without notice.
2. Typically, equipment utilizing this device requires emissions testing and government approval, which is the responsibility of the equipment manufacturer.
3. Our liability is only assumed for the Surface Acoustic Wave (SAW) component(s) per se, not for applications, processes and circuits implemented within components or assemblies.
4. For questions on technology, prices and delivery, please contact our sales offices or e-mail winnsky@winnsky.com