HUAYING ELECTRONICS

DEQING HUAYING ELECTRONICS CO.,LTD.

APPROVAL SHEET

SAW BANDPASS FILTER
PART NO.: NDFG001-1575SA

Product Type:		**Customer:**
SAW Filter		
Part NO.:		**Customer Part NO.:**
NDFG001-1575SA		
Ver. Ctrl.:		**Issued Date:**
SFG001-1575SA -150109-v1.0		

PREPARED BY	CHECKED BY	APPROVED BY

Part No.	:	NDFG001-1575SA
Pages	:	8
Data	:	2015-01-09
Revision	:	SFG001-1575SA -150109-v1.0

Add (Deqing): 188 Zhiyuan North Rd.Wukang Town Deqing County Zhejiang Province 313200,P.R.China
Phone : +86-572-8281127
Fax : +86-572-8281298
E-mail : sales@dqhuaying.com
Website : http://www.dqhuaying.com

Revision	Date	Description	Remark
SFG001-1575SA -150109-v1.0	2015-01-09	First draft	

Features

SAW filter for GPS.

1 High stability and reliability with good performance and no adjustment.

2 Narrow and sharp pass band characteristics. RoHS compatible.

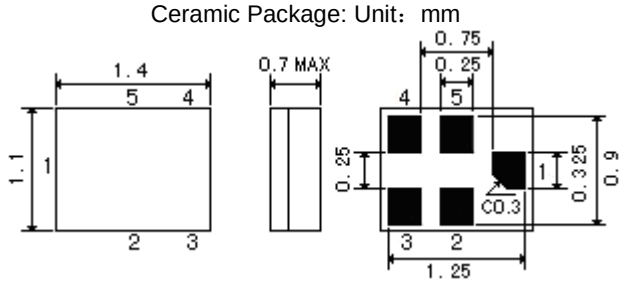
3 Low insertion loss and deep stop band attenuation for interference.

4 Low – loss SAW filter for GPS.

5 Package size 1.4 mm *1.1 mm

Package Dimensions

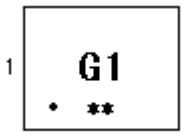
Ceramic Package: Unit：mm



Pin Configuration

1	Input
4	Output
2,3,5	Ground

Marking



Top View, Laser Marking

"**G1**": 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	31st
code	W	X	Y	Z	a	b	d	e	f	g	h

Maximum Ratings

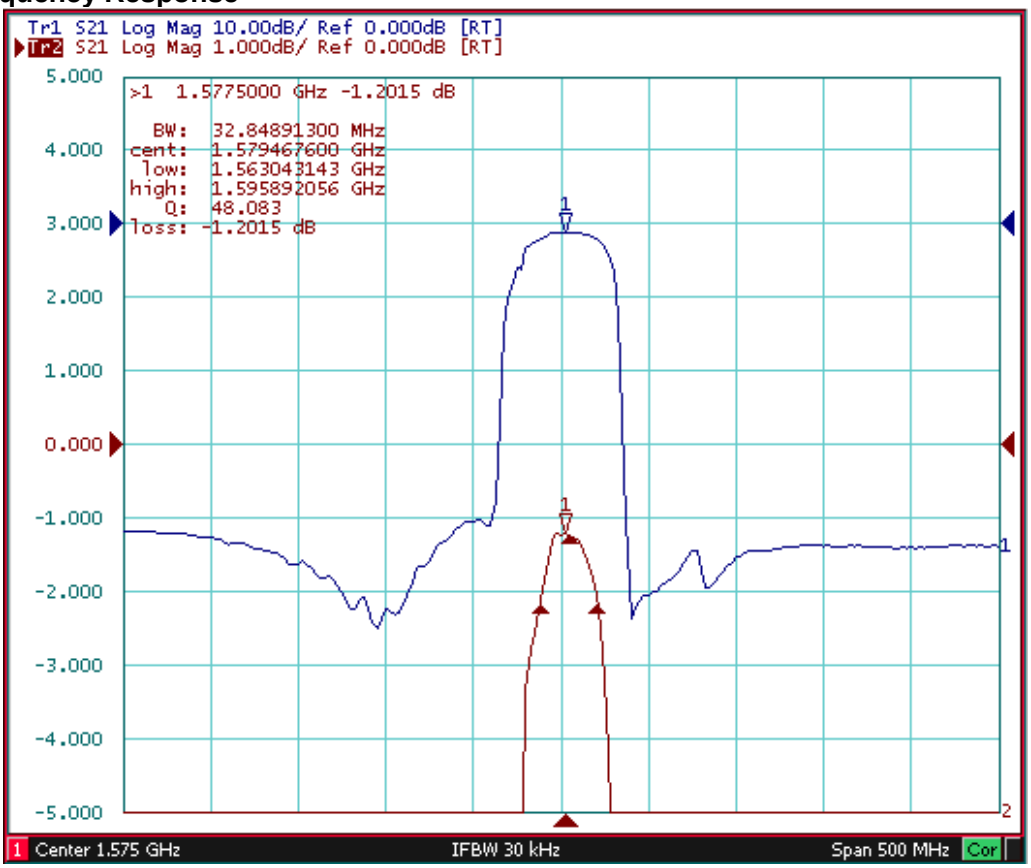
Rating		Value	Unit
DC Voltage (between any Terminals)	V_{DC}	10	V
RF Power (in *BW*)	*P*	10	dBm
Operating Temperature Range	T_A	-30 ~ +85	°C
Storage Temperature Range	T_{stg}	-40 ~ +85	°C

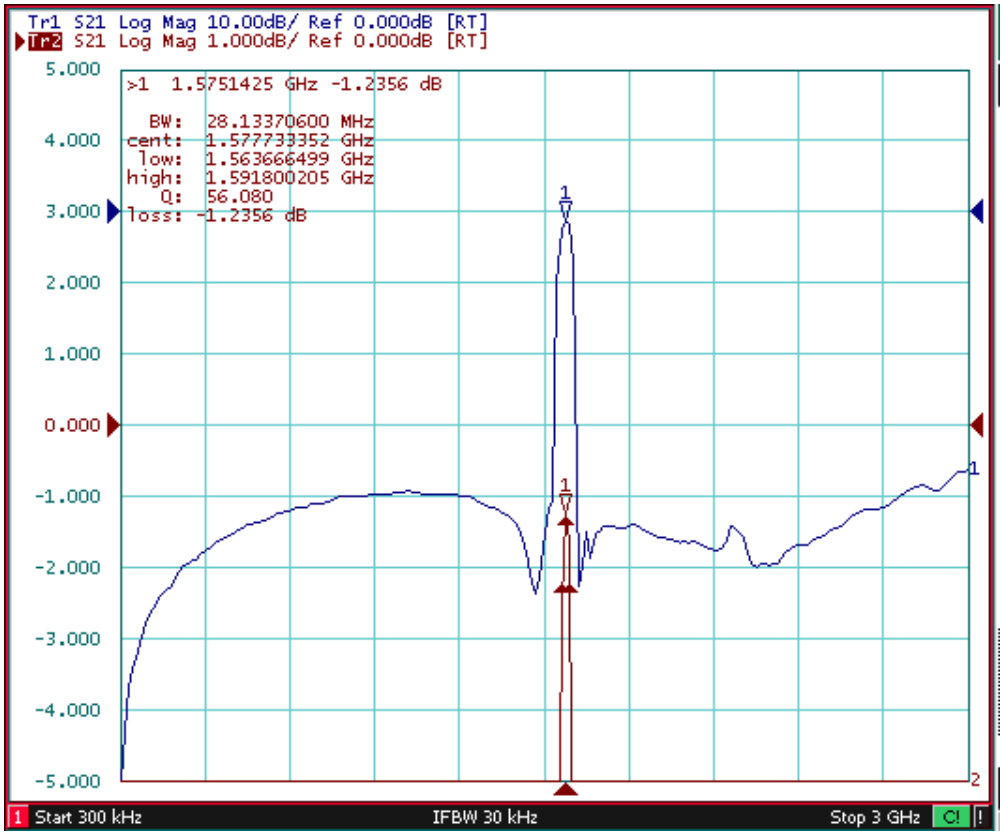
Electrical Characteristics:

Item		Minimum	Typical	Maximum	Unit
Center Frequency	fC	-	1575.42	-	MHz
Maximum Insertion Loss in 1574.42–1576.42MHz	IL	-	1.2	1.5	dB
Amplitude Variation in 1574.42–1576.42MHz			0.1	0.5	dB
Absolute Attenuation	α				
0.30 … 1450.0MHz		35	39	-	dB
1450.0 …1525.0 MHz		38	45	-	dB
1620.0 … 1640.0 MHz		45	48	-	dB
1640.0 … 1805.0MHz		38	40		dB
1805.0 …1910.0 MHz		38	40	--	dB
1910.0 …2000.0 MHz		38	43	--	dB
2000.0 …4000.0 MHz		30	45	--	dB
4000.0 …6000.0 MHz		20	22	--	dB
VSWR in 1574.42–1576.42MHz		-	1.15	1.5	

RoHS Compliant **Electrostatic Sensitive Device**

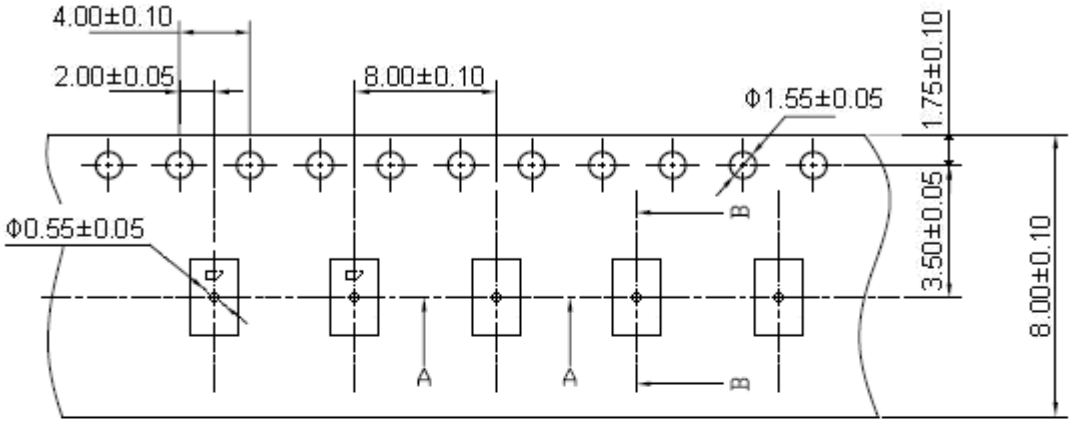
Typical Frequency Response

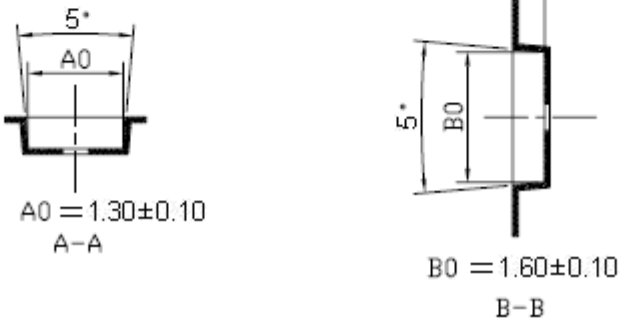




Packing Information

Carrier Tape

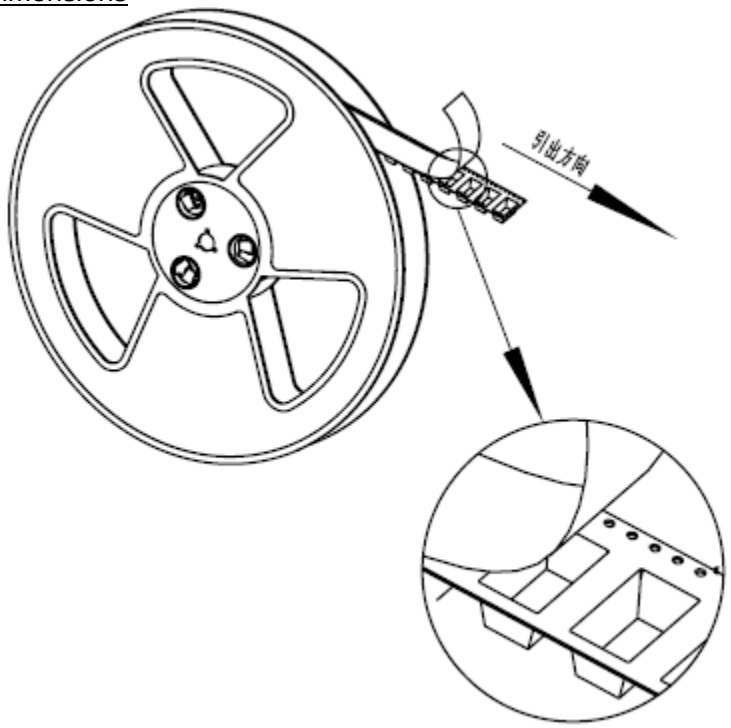




K0 = 0.90±0.10

t = 0.20±0.05

Reel Dimensions



Material	PS
Unit	mm
Tolerance	±0.20 mm
Quantity	4000/reel

Outer Packing

Type	Quantity	Dimension	Description	Weight
Carton Box Ⅰ	10000	200×200×100	anti-static plastic bag & carton box 1 reel / bag 5 bags / box (20000 pcs) 10 bags / box (40000 pcs)	0.85
Carton Box Ⅱ	20000	200×200×200		1.80

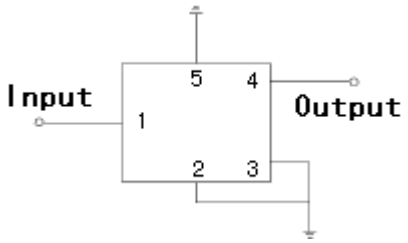
Unit: mm Unit: kg

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

Remarks

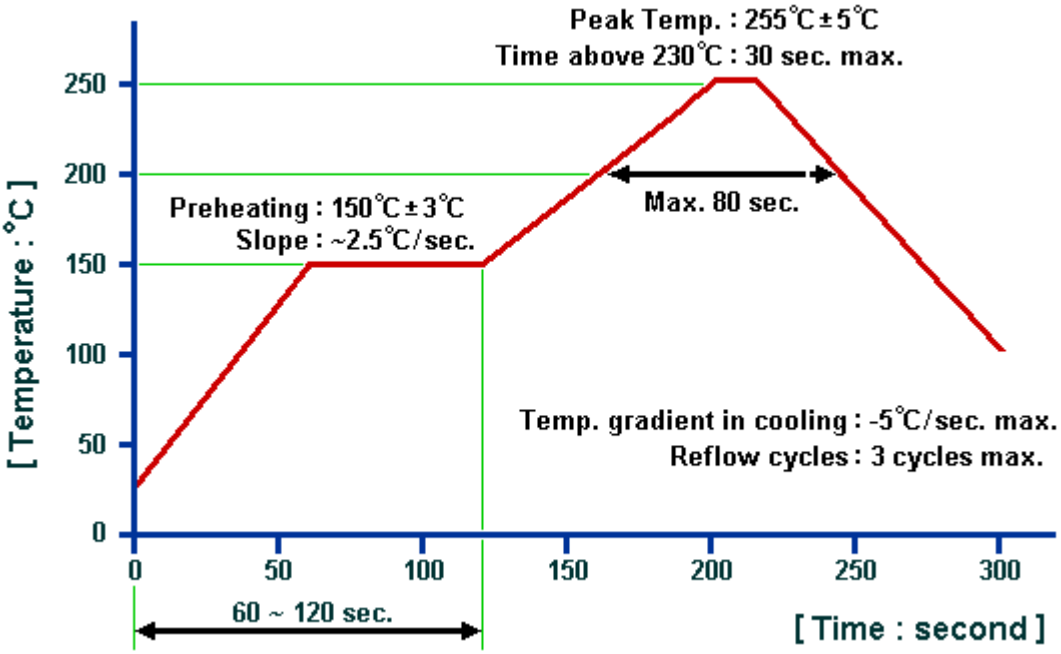
- SAW devices should not be used in any type of fluid such as water, oil, organic solvent, etc.
- Be certain not to apply voltage exceeding the rated voltage of components.
- Do not operate outside the recommended operating temperature range of components.
- Sudden change of temperature shall be avoided, 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



50Ω

Recommended Soldering Profile



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 sales@dqhuaying.com.