



DEQING HUAYING ELECTRONICS CO.,LTD.

APPROVAL SHEET

SAW BANDPASS FILTER PART NO.: NDFH004-2350SA

Product Type:		Customer:	
SAW Filter			
Part NO.:		Customer Part NO.:	
NDFH004-2350SA			
Ver. Ctrl.:		Issued Date:	
SFH004-2350SA -160811-v1.0			

PREPARED BY	CHECKED BY	APPROVED BY

Part No.	:	NDFH004-2350SA
Pages	:	8
Data	:	2016-8-11
Revision	:	SFH004-2350SA -160811-v1.0

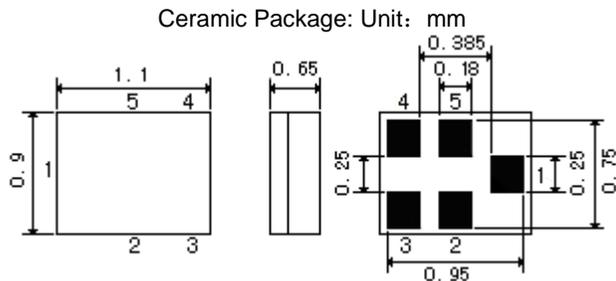
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Features

SAW filter for Band 40

- 1 High stability and reliability with good performance.
- 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 Band 40.
- 5 Package size 1.1mm*0.9mm

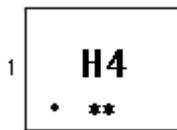
Package Dimensions



Pin Configuration

1	Input
4	Output
2,3,5	Ground

Marking



Top View, Laser Marking

"H4": 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

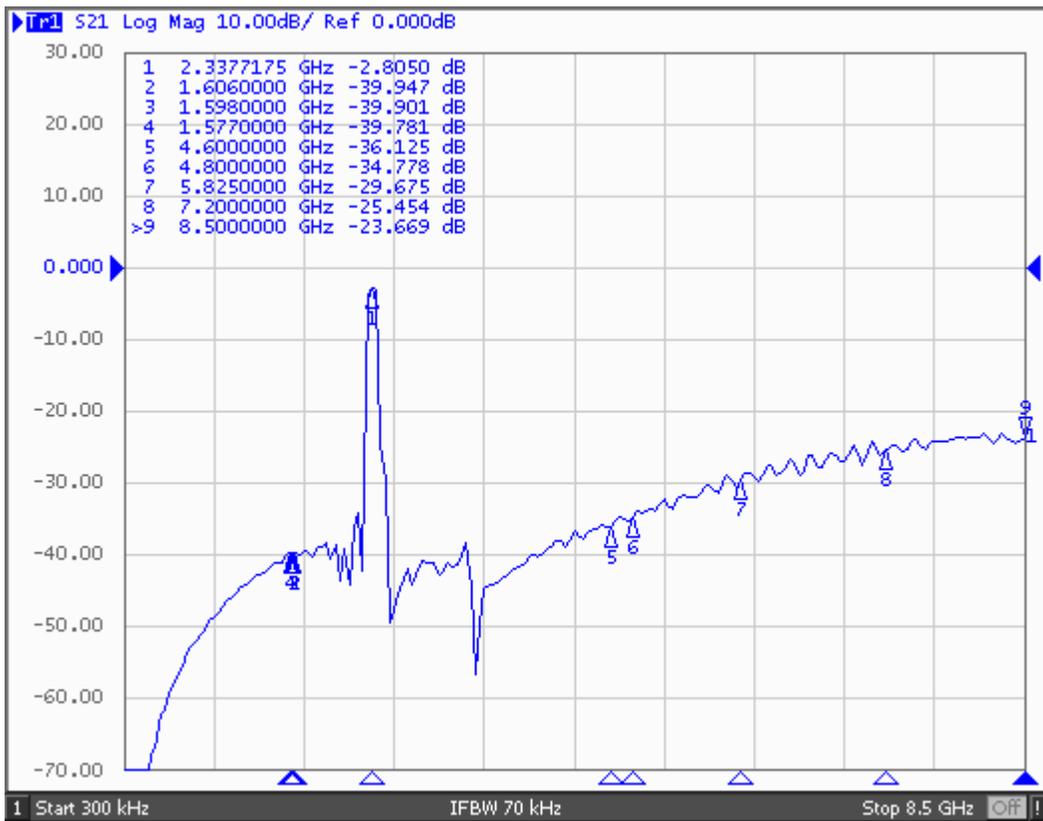
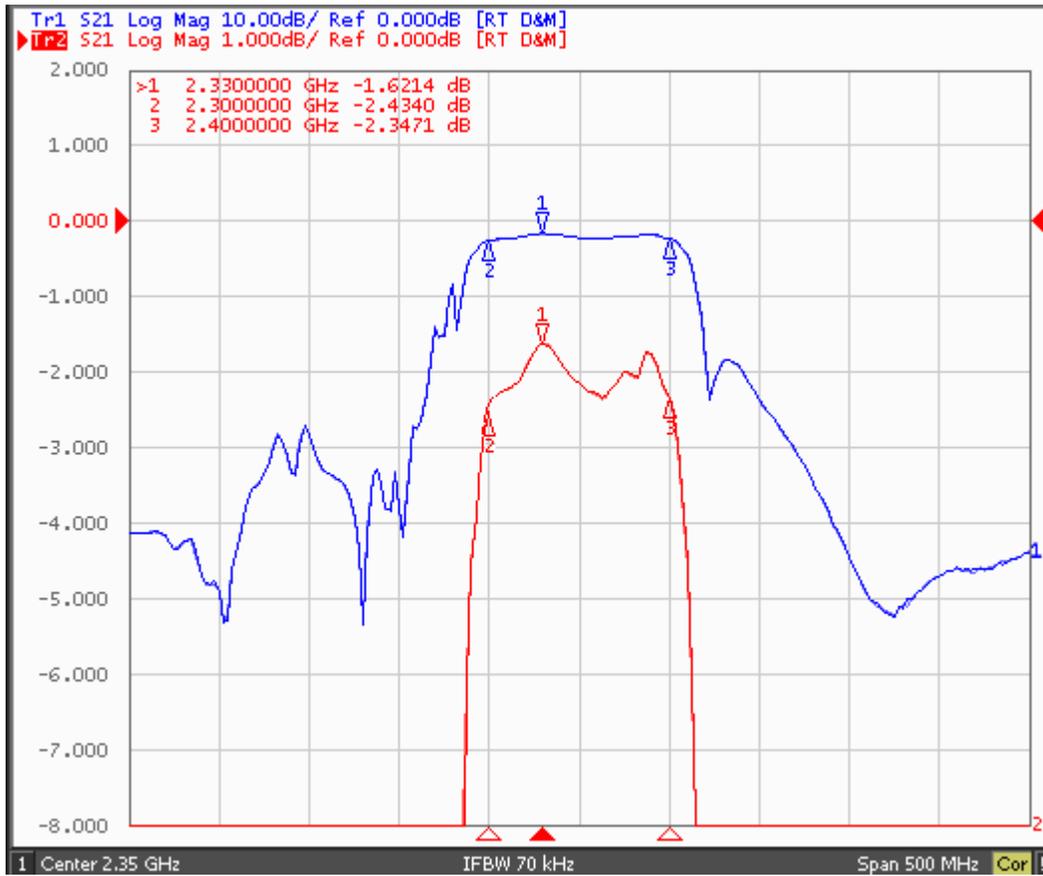
Rating		Value	Unit
DC Voltage (between any Terminals)	V_{DC}	10	V
RF Power (in BW)	P	13	dBm
Operating Temperature Range	T_A	-30 ~ +85	°C
Storage Temperature Range	T_{stg}	-40 ~ +85	°C

Electrical Characteristics:

Item		Minimum	Typical	Maximum	Unit
Insertion Loss	IL				
2300 2400 MHz			2.5	3.8	dB
Passband Ripple	Pr				
2300 2400 MHz			1.3	2.6	dB
VSWR	V_{swr}				
2300 2400 MHz			2.2	2.7	
Absolute Attenuation	α				
1559.... 1563 MHz		35	43		dB
1565 1573 MHz		35	43		dB
1573 1577 MHz		35	43		dB
1577 1585 MHz		35	43		dB
1598 1606 MHz		35	43		dB
4600 4800MHz		25	30		dB
5725 5825 MHz		25	30		dB
6900 7200 MHz		23	28		dB
Input / Output Impedance (Nominal)		50Ω /50Ω (//2.7nH)			

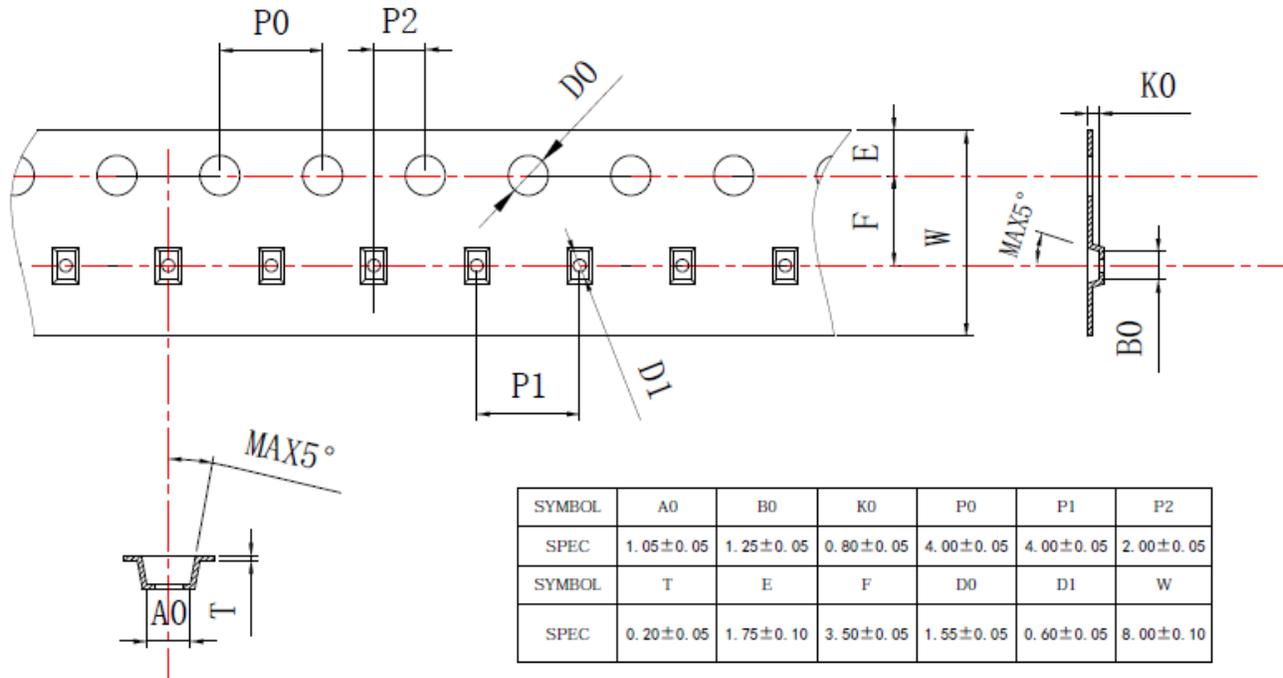
 **RoHS Compliant**
 **Electrostatic Sensitive Device**

Typical Frequency Response S21

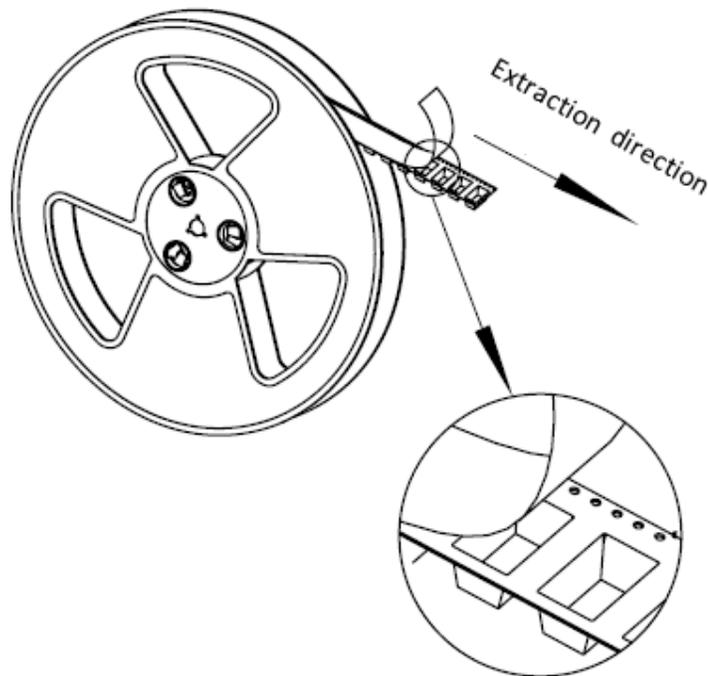


Packing Information

Carrier Tape



Reel Dimensions



Material	PS
Unit	mm
Tolerance	±0.20 mm
Quantity	10000/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 (50000 pcs) 10 bags / box (100000 pcs)	0.85
Carton Box II	20000	200×200×200		1.80

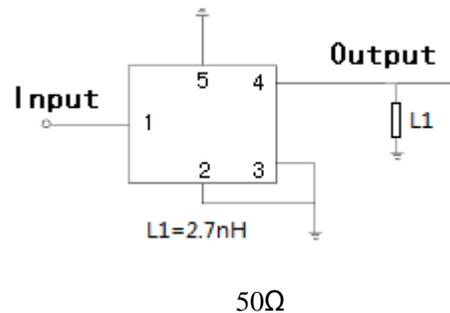
Unit: mm

Unit: kg

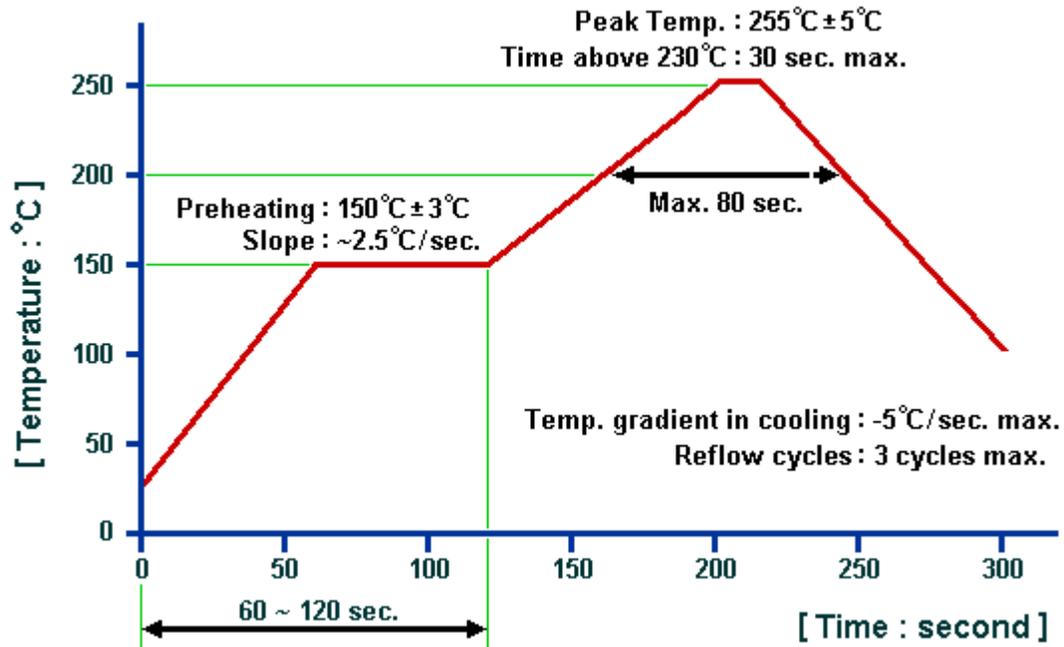
Requirements: The SAW filter shall remain within the electrical specifications after tests.

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

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 sales@dquaying.com.