

DEQING HUAYING ELECTRONICS CO., LTD.

APPROVAL SHEET

SAW BANDPASS FILTER PART NO.: NDFH016-0806SA

Product Type:

Customer:

Part NO.:

SAW Filter

Customer Part NO.:

NDFH016-0806SA

Ver. Ctrl.:

SFH016-0806SA -161226-v1.0

Issued Date:

PREPARED BY	CHECKED BY	APPROVED BY

Part No.		NDFH016-0806SA
Pages	:	8
Data	:	2016-12-26
Revision	:	SFH016-806SA -161226-v1.0

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Unbalanced

806. 0MHz

Revision	Date	Description	Remark
SFH016-806SA -161226-v1.0	2016-12-26	First draft	

Unbalanced

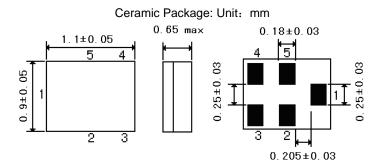
806. 0MHz

Features

SAW filter for LTE BAND 20 (Rx).

- 1 High stability and reliability with good performance and no adjustment.
- 2 Single ended to Single ended.
- 3 Narrow and sharp pass band characteristics. RoHS compatible.
- 4 Low insertion loss and deep stop band attenuation for interference.
- 5 Useable Pass band 30MHz.
- 6 Package size 1.1mm*0.9mm.

Package Dimensions



Pin Configuration

1	Unbalance port
4	Unbalance port
2,3,5	Ground

Marking



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	р	q	r	S	t	u	V	W	Х	у	Z
2017/2021	Α	В	С	D	Е	F	G	Н	J	K	L	М
2018/2022	Ν	Р	Q	R	S	Т	U	V	W	Х	Y	Ζ
2019/2023	а	b	С	d	е	f	g	h	i	j	k	m

The second " * ": Date Code

data	1s	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	
code	А	В	С	D	Е	F	G	Н	J	K	
data	11th	12th	13th	14th	15th	16th	17th	18th	19th	20th	
code	L	М	Ν	Р	Q	R	S	Т	U	V	
data	21st	22nd	23rd	24th	25th	26th	27th	28th	29th	30th	31st
code	W	Х	Y	Z	а	b	d	е	f	g	h

Maximum Ratings

Rating		Value	Unit
DC Voltage (between any Terminals)	V _{DC}	10	V
RF Power (in <i>BW</i>)	Р	15 dBm /2000hr@55°0	
Operating Temperature Range	T _A	-30 ~ +85	°C
Storage Temperature Range	$T_{ m stg}$	-40 ~ +85	°C
ESD Voltage (HB)	Vesd	>150	V
Moisture Sensitivity Levels	MSL	2A	

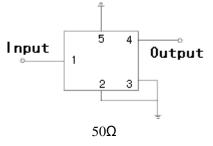
Electrical Characteristics:

	Minimum	Typical	Maximum	Unit
IL		2.1	3.0	dB
Pr		0.8	1.8	dB
Vswr		2.0	2.3	
α				
	40	50		dB
	40	45		dB
	30	45		dB
	29	36		dB
	47	54		dB
	35	42		dB
	35	41		dB
	30	35		dB
	30	33		dB
	23	27		dB
		50		Ω
	Pr Vswr	IL Pr Vswr α 40 40 30 29 47 35 30 30 23	$\begin{tabular}{ c c c c } \hline IL & 2.1 & & \\ \hline Pr & 0.8 & & \\ \hline Vswr & 2.0 & & \\ \hline & 40 & 50 & & \\ \hline & 40 & 45 & & \\ \hline & 40 & 45 & & \\ \hline & 30 & 45 & & \\ \hline & 29 & 36 & & \\ \hline & 29 & 36 & & \\ \hline & 47 & 54 & & \\ \hline & 35 & 42 & & \\ \hline & 35 & 41 & & \\ \hline & 30 & 35 & & \\ \hline & 30 & 35 & & \\ \hline & 30 & 33 & & \\ \hline & 23 & 27 & & \\ \hline \end{array}$	$\begin{tabular}{ c c c c c } \hline IL & 2.1 & 3.0 \\ \hline Pr & 0.8 & 1.8 \\ \hline Vswr & 2.0 & 2.3 \\ \hline \alpha & & & & & \\ \hline 0 & 40 & 50 & & & \\ \hline 40 & 45 & & & & \\ \hline 40 & 45 & & & & \\ \hline 40 & 45 & & & & \\ \hline 30 & 45 & & & & \\ \hline 29 & 36 & & & & \\ \hline 29 & 36 & & & & \\ \hline 29 & 36 & & & & \\ \hline 29 & 36 & & & & \\ \hline 30 & 45 & & & & \\ \hline 31 & 30 & 45 & & & \\ \hline 32 & 35 & 41 & & & \\ \hline 30 & 35 & & & \\ \hline 30 & 33 & & & & \\ \hline 30 & 33 & & & & \\ \hline 23 & 27 & & & \\ \hline 50 & & & \\ \hline \end{tabular}$

🕲 RoHS Compliant

① Electrostatic Sensitive Device

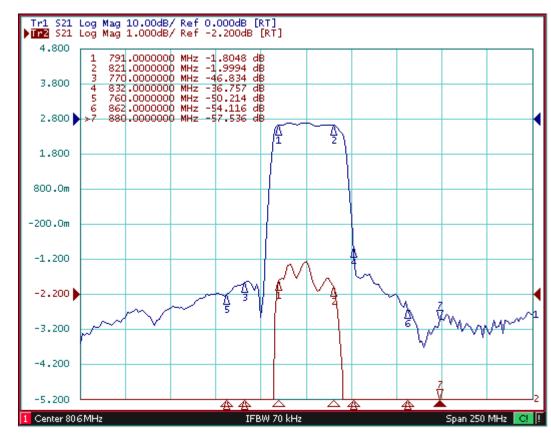
Test Circuit



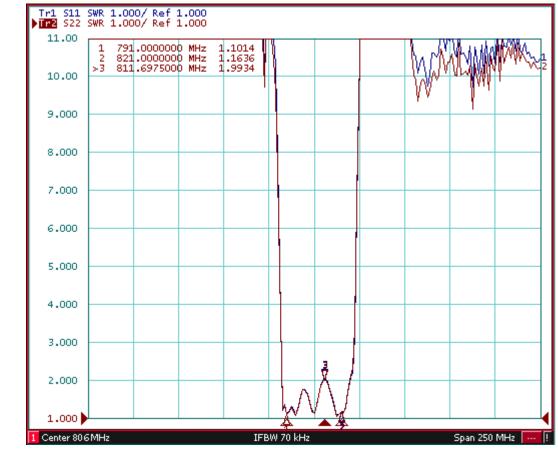
Unbalanced

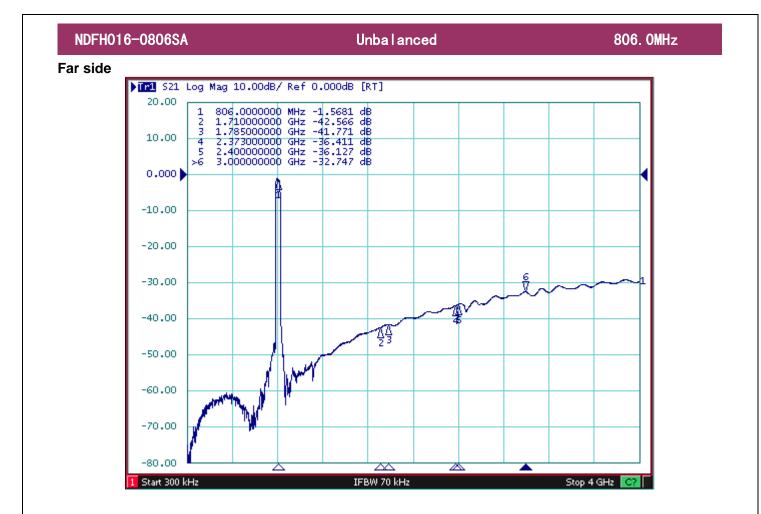
Typical Frequency Response

S21



S11 S22





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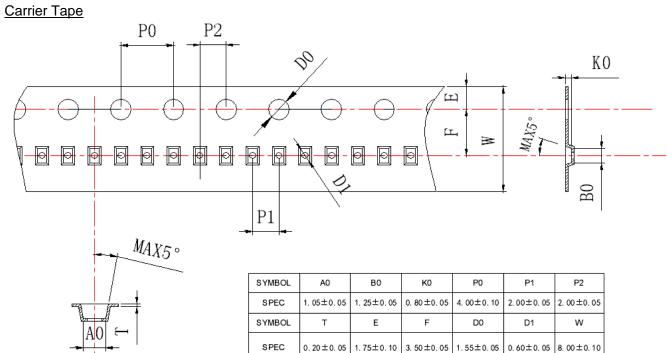
Stability Characteristics

ltem No.	Test Item	STD Reference	Test Conditions	per lot
	Preconditioning	JESD22-A113	 Temperature Cycling, 5 cycles -40°C to 85°C Bake, 24 hrs @125±5°C; Reflow, 3 reflow cycles Drying, Room ambient temperature 	177
1	Temperature Cycling	JESD22-A104	-40 $^\circ\!\!{\rm C}$ / +85 $^\circ\!\!{\rm C}$,40min dwell,<1 min transfer time,500cycles	23
2	High Temperature Storage	JESD22-A103	85℃,240hr	23
3	Low Temperature Storage	JESD22-A119	-40℃, 240hr	23
4	Temperature Humidity bias	JESD22-A106B	85°C 85%RH 240hr	23
5	Unbiased Temperature/Humidity	JESD22-A102C	+121℃ 100%RH 96hr	23
6	Human Body Mode ESD	JESD22-A114F	Ta=25℃,≥150V	5
7	Drop Test	IEC 68-2-32	100cm , 3times Steel floor JIG(110g~150g)	6
8	Solderability	JESD22-B102	Characterization per JESD22-B102	5
9	Vibration, Variable Frequency	JESD22-B103	20 Hz to 2 kHz (log variation) in > 4 minutes, 4X in each orientation, 20g peak acceleration	23
10	Mechanical Shock	JESD22-B104	Y1 plane only, 5 pulses, 0.5 ms duration, 1500 g peak acceleration	23

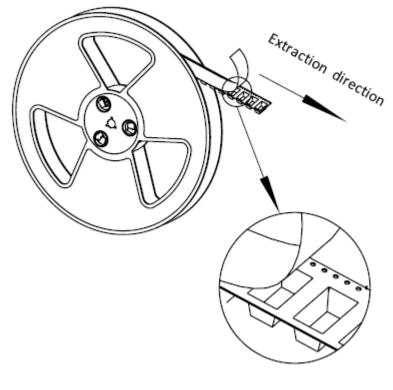
Requirements: The SAW filer shall remain within the electrical specifications after tests.

Unbalanced

Packing Information



Reel Dimensions



Material	PS
Unit	mm
Tolerance	±0.20 mm
Quantity	10000/reel

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Outer Packing

Туре	Quantity	Dimension	Description	Weight
Carton Box I	10000	200×200×100	anti-static plastic bag & carton box 1 reel / bag	0.85
Carton Box II	20000	200×200×200	5 bags / box (50000 pcs) 10 bags / box (100000 pcs)	1.80

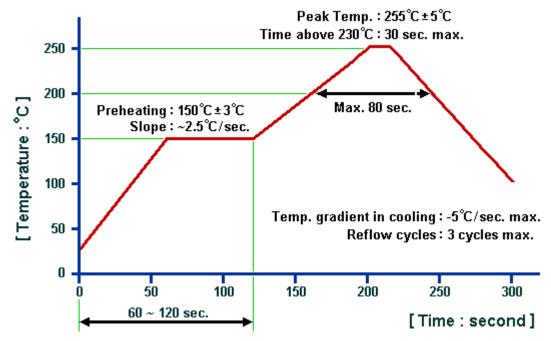
Unit: mm

Unit: kg

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.

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@dqhuaying.com.

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 DSS-313

 PIN
 B39321R801H210
 1A0220-3
 JP510S
 LFB212G45SG8C341
 LFB322G45SN1A504
 LFL182G45TC3B746
 SF2159E
 30057

 AFS1575.42S4-T
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 43020
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 LFL15869MTC1B787
 X3C19F1-20S
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 TGL2208-SM, EVAL
 RF1353C
 051157-0000
 PD0922J5050D2HF
 1E1305-3
 1F1304-3S
 1G1304-30

 B0922J7575AHF
 10017-3
 TP-103-PIN
 BD1222J50200AHF
 BD1722J50100AHF
 2450DP39K5400E
 BD0810J50150AHF