# 

规格书编号 SPEC NO:

# 产品规格书 SPECIFICATION

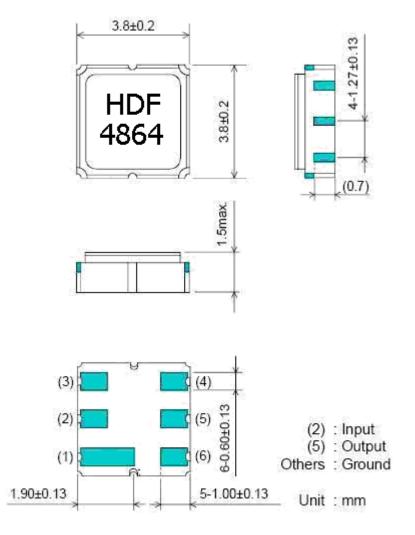
CUSTOMER 客户:	
PRODUCT 产品:	SAW FILTER
MODEL NO 型 号:	HDF865C SMD-4
MARKING 印字:	HDF4864
PREPARED 编 制:	CHECKED 审 核:
APPROVED 批 准:	DATE日期: 2011-6-13

客户确认 CUSTOMER RECEIVED:									
审核 CHECKED	批准 APPROVED	日期 DATE							

无锡市好达电子有限公司 Shoulder Electronics Limited

# SAW FILTER

# 1. Package Dimension



### 3.Performance

3.1Application

Low-Loss SAW Filter of cordless system.

- Center Frequency:865MHz
- 3.2Maximum Rating

Operation Temperature Range	-40°C to +85°C
Storage Temperature Range	-45°C to +85°C
DC. Permissive Voltage	10 V DC
Maximum Input Power	10 dBm

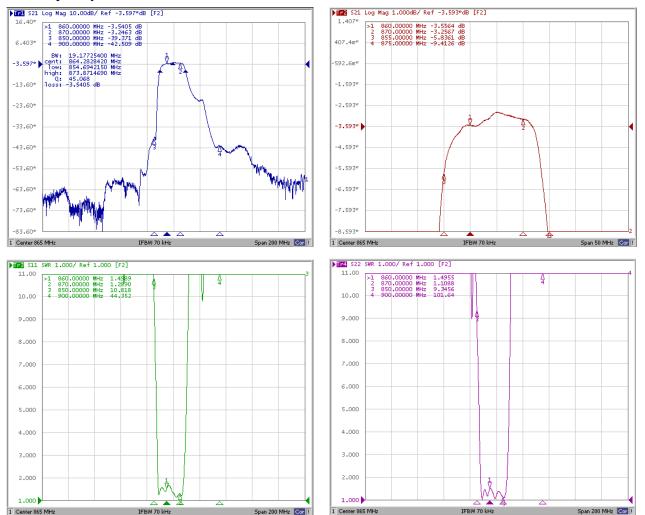
# SAW FILTER

### HDF865C S-4

#### 3.3 Electronic Characteristics(-10~60°C)

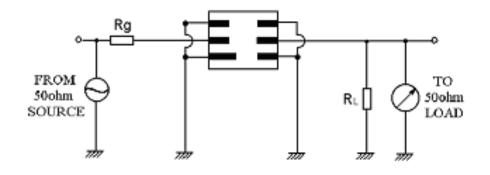
	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	-	865	-
Insertion Loss (860 MHz ~870 MHz)	dB		2.5	4.0
Amplitude Ripple (860 MHz ~870 MHz)	dB		1.0	2.5
Relative Attenuation				
0.3 MHz ~ 850 MHz	dB	38	42	-
900 MHz ~ 1200MHz		40	45	
Input/Output Impedance	Ohms		50	

#### **3.4 Frequency Characteristics**





#### 3.5 Test Circuit



### 4. ENVIRONMENTAL CHARACTERISTICS

4-1 High temperature exposure

Subject the device to  $+85^{\circ}$ C for 16 hours. Then release the filter into the room conditions for 24 hours prior to the measurement. It shall fulfill the specifications in 3.3.

4-2 Low temperature exposure

Subject the device to  $-40^{\circ}$ C for 16 hours. Then release the device into the room conditions for 24 hours prior to the measurement. It shall fulfill the specifications in 3.3.

4-3 Temperature cycling

Subject the device to a low temperature of  $-40^{\circ}$ C for 30 minutes. Following by a high temperature of  $+85^{\circ}$ C for 30 Minutes. Then release the device into the room conditions for 24 hours prior to the measurement. It shall meet the specifications in 3.3.

#### 4-4 Resistance to solder heat

Dip the device terminals no closer than 1.5mm into the solder bath at  $260^{\circ}$ C  $\pm 10^{\circ}$ C for  $10\pm 1$  sec. Then release the device into the room conditions for 4 hours. The device shall meet the specifications in 3.3.

4-5 Solderability

Subject the device terminals into the solder bath at  $245^{\circ}$ C  $\pm 5^{\circ}$ C for 5s, More than 95% area of the terminals must be covered with new solder. It shall meet the specifications in 3.3.

4-6 Mechanical shock

Drop the device randomly onto the concrete floor from the height of 1m 3 times. the device shall fulfill the specifications in 3.3.

4-7 Vibration

Subject the device to the vibration for 1 hour each in x,y and z axes with the amplitude of 1.5 mm at 10 to 55 Hz. The device shall fulfill the specifications in 3.3.

# 5. REMARK

5.1 Static voltage



Static voltage between signal load & ground may cause deterioration & destruction of the component. Please avoid static voltage.

5.2 Ultrasonic cleaning

Ultrasonic vibration may cause deterioration & destruction of the component. Please avoid ultrasonic cleaning

5.3 Soldering

Only leads of component may be soldered . Please avoid soldering another part of component.

### 6. Packing

- 6.1 Dimensions
  - (1) Carrier Tape: Figure 1
  - (2) Reel: Figure 2
  - (3) The product shall be packed properly not to be damaged during transportation and storage.

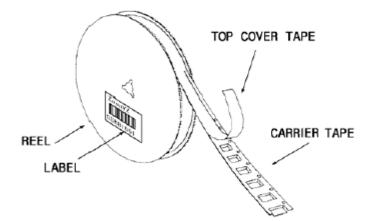
#### 6.2 Reeling Quantity

1000 pcs/reel 7"

3000 pcs/reel 13"

#### 6.3 Taping Structure

(1) The tape shall be wound around the reel in the direction shown below.



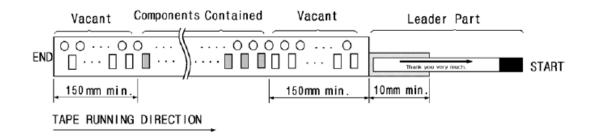
#### (2) Label

Device Name	
User Product Name	
Quantity	
Lot No.	

(3) Leader part and vacant position specifications.

#### HDF865C S-4



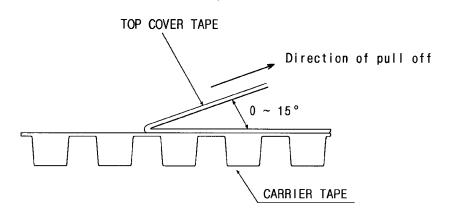


# 7. TAPE SPECIFICATIONS

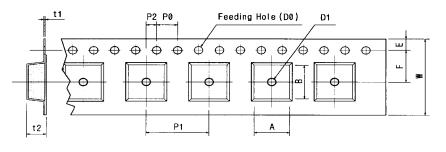
7.1 Tensile Strength of Carrier Tape: 4.4N/mm width

7.2 Top Cover Tape Adhesion (See the below figure)

- (1) pull off angle:  $0 \sim 15^{\circ}$
- (2) speed: 300mm/min.
- (3) force: 20~70g



[Figure 1] Carrier Tape Dimensions



Tape Running Direction

											[Unit	t:mm]
W	F	Е	P0	P1	P2	D0	D1	t1	t2	А	В	

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12.00	5.50	1.75	4.00	4.00	2.00	Ø1.50	Ø1.5	0.31	1.30	3.4	3.4
±0.30	±0.10	±0.10	±0.10	±0.10	±0.10		$\pm 0.25$	±0.05	±0.10	MAX.	MAX

[Figure 2]

