SHOULDER ELECTRONICS CO., LTD

SPECIFICATION FOR APPROVAL

NO 编号:_____

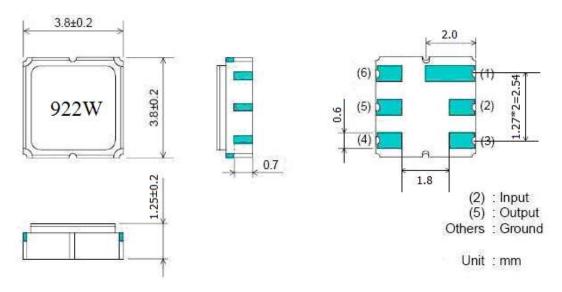
户:						
品 :	SAW FILTER					
号:	Н	DF922A S4				
制:	Fengyu	CHECKED T	Ì	核:	York	
准:	Lijiating	DATE		期 :	2007-7-30	
	品: 号: 制:	品: 号: H 制: Fengyu	品: SAW FILTER 号: HDF922A S4 制: Fengyu CHECKED f	品: SAW FILTER 号: HDF922A S4 制: Fengyu CHECKED 审	品: SAW FILTER 号: HDF922A S4 制: Fengyu CHECKED 审 核:	

CUSTOMER	客户	确认意见:
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CHECKED 审核:	
APPROVED 批 准:	
DATE 日期:	

公司地址: 广东深圳市福田区车公庙泰然工业区 303 栋 5 楼西座 West 5/F, 303 Bldg., Che Gong Miao, Industry Park, Futian Dist., Shenzhen, Guangdong, China. Tel: 86-755-82916880 Fax:86-755-82916881 工厂地址: 江苏无锡市滨湖经济技术开发区高运路 115 号 No. 115, Gaoyun road, Binhu Economic&Technology Development Area, Wuxi, Jiangsu, China Tel: 86-510-5629111 Fax: 86-510-5627222 Website:www.shoulder.cn

1. Package Dimension



2. Marking

922W

1.Color: Black or Blue 2.922.5: Center Frequency(MHz)

3. Performance

3.1 Application

Low-Loss SAW Filter of cordless system. Center Frequency: 922.5 MHz

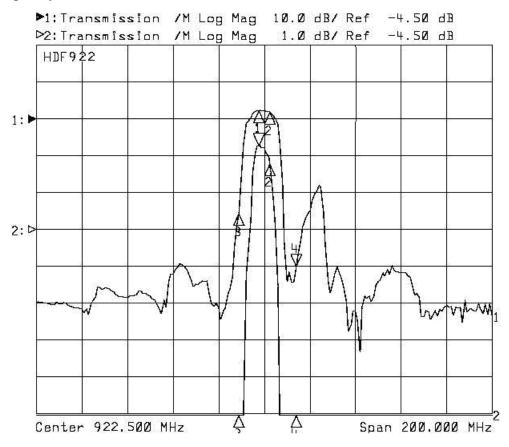
3.2 Maximum Rating

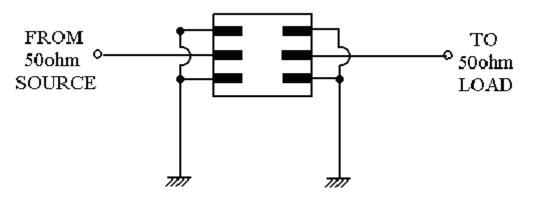
Operation Temperature Range	-10°℃ to +70°℃
Storage Temperature Range	-40°C to +85°C
DC Voltage	10V max.
Maximum Input Power	10dBm

3.3 Electronic Characteristics

Item	Specification				
Center Frequency(fo)	922.5 MHz				
Insertion Loss(dB)					
1.)922.5±3.5 MHz	4.5max				
2.)Fo-44.0~-40.0 MHz	40 min				
3.)Fo-22.0~-19.0 MHz	25 min				
4.)Fo+21.0~24.0 MHz	20 min				
5.)Fo+42.0~47.0 MHz	40 min				
6) Fo+12.0MHz	10 min				
Ripple deviation (919~926MHz)(dB)	2.0max				
Pass band width(-3dB)	± 3.5 MHz min.				
Input/output Impedance(Nominal)	50 Ω				
Operating Temperature Range	−10°C to +70°C				

3.4 Frequency Characteristics





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 table 1.

4-2 Low temperature exposure

Subject the device to -20° 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 table 1.

4-3 Temperature cycling

Subject the device to a low temperature of -40° C for 30 minutes. Following by a high temperature of $+80^{\circ}$ 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 table 1.

4-4 Resistance to solder heat

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

4-5 Solderability

Subject the device terminals into the solder bath at 245° 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 table 1.

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 table 1.

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 table 1.

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

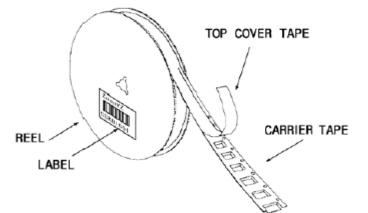
- 6.1 Dimensions
 - (1) Carrier Tape: Figure 1
 - (2) Reel: Figure 2
 - (3) The product shall be packed properly not to be damaged during transportation and storage.

6.2 Reeling Quantity

1000 pcs/reel 7" 3000 pcs/reel 13"

6.3 Taping Structure

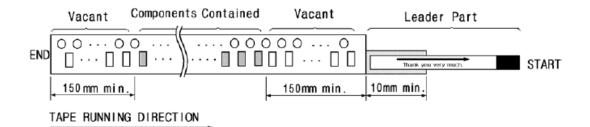
(1) The tape shall be wound around the reel in the direction shown below.



(2) Label

Device Name	
User Product Name	
Quantity	
Lot No.	

(3) Leader part and vacant position specifications.

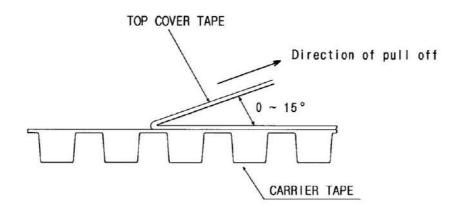


7. TAPE SPECIFICATIONS

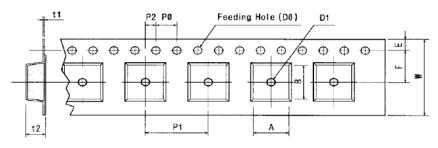
7.1 Tensile Strength of Carrier Tape: 4.4N/mm width

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:mm]											
W	F	Е	P0	P1	P2	D0	D1	t1	t2	А	В
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	Ø1.50	± 0.25	± 0.05	±0.10	MAX.	MAX

[Figure 2]

[Unit:mm]

