Approved by:

Checked by:

Issued by:

SPECIFICATION

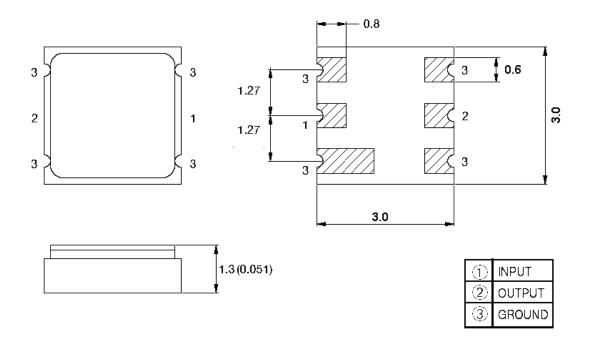
PRODUCT: SAW FILTER

MODEL: HD F916AN S6



SHOULDER ELECTRONICS LIMITED

1. Package Dimension



2. Marking

HD F6925

1.Color: Black or Blue

2.916: Center Frequency(MHz)

3. Performance

3.1Application

Low-Loss SAW Filter of cordless system.

Center Frequency: 916 MHz

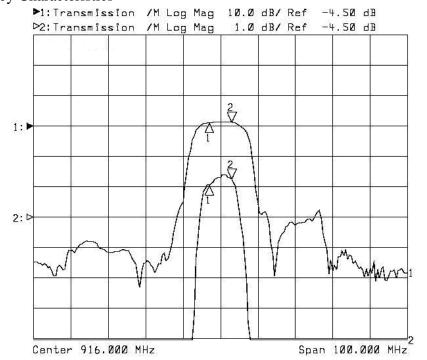
3.2 Maximum Rating

Operation Temperature Range	-20°℃ to +60°℃			
Storage Temperature Range	-40°C to +85°C			
DC. Voltage	10 V max.			
Maximum Input Power	5dBm			

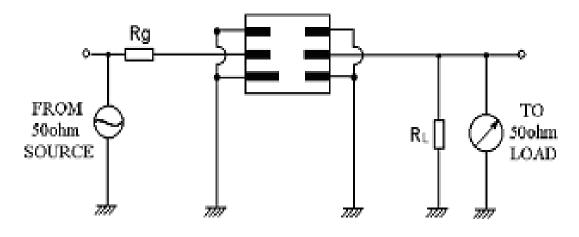
3.3Electronic Characteristics

Item	Specification 916 MHz				
Center Frequency(fo)					
Insertion Loss(dB)					
1.)915-917 MHz	4.5 max				
2.)900~902 MHz	35 min				
3.)925~930MHz	35 min				
4.)850~900MHz	40 min.				
5.)950~1000 MHz	40 min.				
Ripple deviation (915-917MHz)(dB)	1.5max				
Input/output Impedance(Nominal)	50 Ω				

3.4 Frequency Characteristics







4. ENVIRONMENTAL CHARACTERISTICS

4-1 Temperature cycling

Subject the device to a low temperature of $-40 \degree C$ for 30 minutes. Following by a high temperature of $+25\degree C$ for 5 Minutes and a higher temperature of $+85\degree C$ for 30 Minutes. Then release the device into the room conditions for 1 to 2 hours prior to the measurement. It shall meet the specifications in table 1.

4-2 Resistance to solder heat

Submerge the device terminals into the solder bath at 260° C $\pm 5^{\circ}$ C for 10 ± 1 sec. Then release the device into the room conditions for 4 hours. It shall meet the specifications in table 1.

4-3 Solderability

Submerge the device terminals into the solder bath at 245° C $\pm 5^{\circ}$ C for 5s, More than 95% area of the soldering pad must be covered with new solder. It shall meet the specifications in table 1.

4-4 Mechanical shock

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

4-5 Vibration

Subject the device to the vibration for 2 hour each in x,y and z axes with the amplitude of 1.5 mm at 10 to 55 hz. The filter 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.

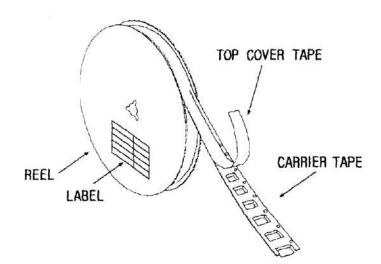
7. Packing

- 7.1 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.

7.2 Reeling Quantity 1000 pcs/reel 7" 3000 pcs/reel 13"

7.3 Taping Structure

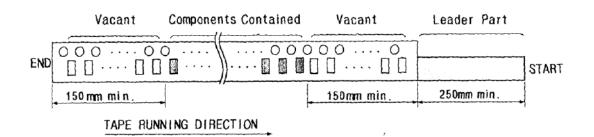
(1) The tape shall be wound around the reel in the direction shown below.



(2) Label

Device Name	
User Product Name	
Quantity	
Lot No.	

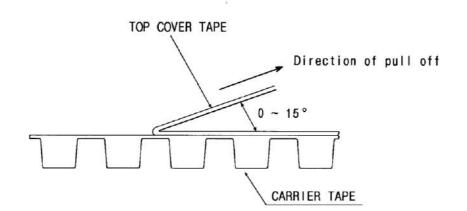
(3) Leader part and vacant position specifications.



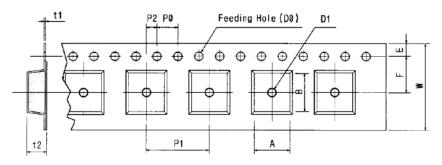
8. TAPE SPECIFICATIONS

- 8.1 Tensile Strength of Carrier Tape: 4.4N/mm width
- 8.2 Top Cover Tape Adhesion (See the below figure)

(1) pull off angle: 0~15°
(2) speed: 300mm/min.
(3) force: 20~70g



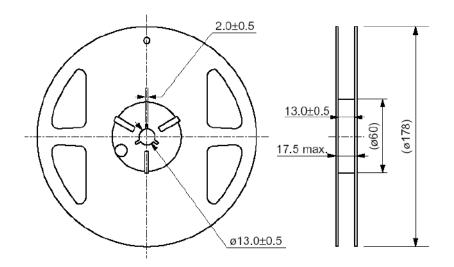
[Figure 1] Carrier Tape Dimensions



Tape Running Direction

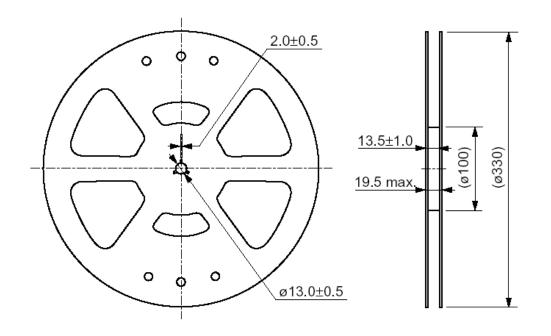
	[Unit:mm										
W	F	Е	P0	P1	P2	D0	D1	t1	t2	А	В
12.0	5.5	1.75	4.0	4.0	2.0	Ø1.5	Ø1.0	0.3	1.25	$3.3\pm$	3.3±
± 0.3	± 0.05	± 0.1	± 0.1	± 0.1	± 0.05	± 0.1	± 0.25	± 0.05	± 0.1	0.1	0.1

[Figure 2]



ø178 Reel Dimension

(in mm)



ø330 Reel Dimension

(in mm)