

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:	HDF435A1-S3					
PREPARED 编 制:	CHECKED 审 核:					
APPROVED 批准:	DATE 日期:	2008-7-23				
客户确认 CUSTOMER R	ECEIVED:					
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 HDF435A1-S3

更改历史记录 History Record

更改日期 Date	规格书编号 Spec. No.	产品型号 Part No.	客户产品型号 Customer No.	更改内容描述 Modify Content	备注 Remark



1. SCOPE

This specification shall cover the characteristics of SAW filter With F435A1 used for the page system.

2. ELECTRICAL SPECIFICATION

DC Voltage VDC	10V
AC Voltage Vpp	10V50Hz/60Hz
Operation temperature	-40°C to +85°C
Storage temperature	-45°C to +85°C
RF Power Dissipation	0dBm

Electronic Characteristics

2-1. Typical frequency response

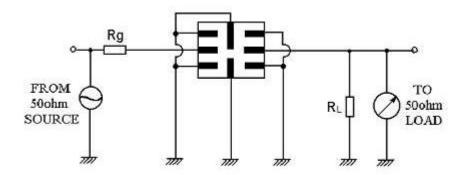


2-2. Electrical characteristics

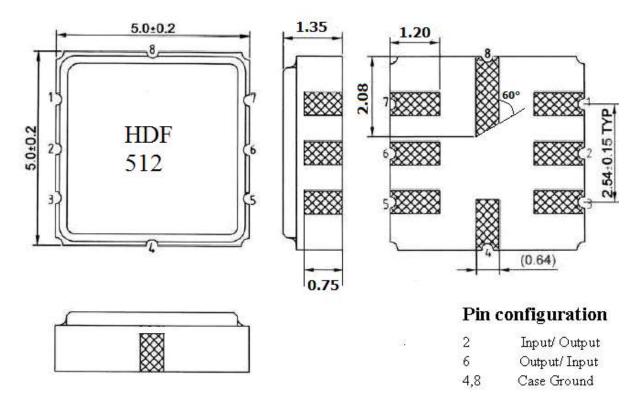
Part number	F435A1	Unit	
Nominal center frequency (Fo)	435	MHz	
Insertion Loss			
386.6MHz~396.6 MHz	50min.	dB	
fo	3.5max		
fo +39.8~ fo +45.8MHz	45min		
Bandwidth (-3dB)	±5~±7	MHz	
Ripple (with Fo ± 5.0 MHz)	2.0max	dB	
Input/Output Impedance(Nominal)	50//0	Ω/pF	



3. TEST CIRCUIT



4. DIMENSION



5. ENVIRONMENTAL CHARACTERISTICS

5-1 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 2-2.

5-2 Low temperature exposure

Subject the device to -40°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 2-2.

5-3 Temperature cycling

Subject the device to a low temperature of -40° C for 30 minutes. Following by a high temperature of $+85^{\circ}$ C for 30 Minutes. Then release the device into the room conditions



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for 24 hours prior to the measurement. It shall meet the specifications in table 1.

5-4 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 2-2.

5-5 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 2-2.

5-6 Mechanical shock

Drop the device randomly onto the concrete floor from the height of 1m 3 times. the device shall fulfill the specifications in 2-2.

5-7 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 2-2.

6. REMARK

6.1 Static voltage

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

6.2 Ultrasonic cleaning

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

6.3 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.

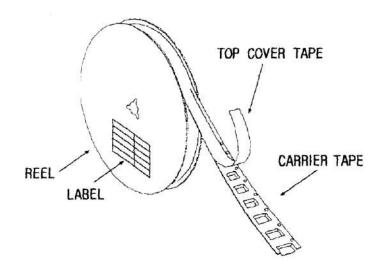
7.2 Reeling Quantity

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.

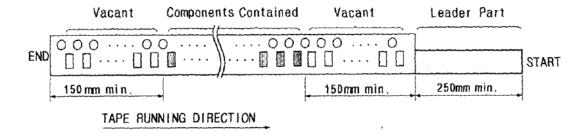
SAW FII TER



(2) Label

Device Name	
User Product Name	
Quantity	
Lot No.	

(3) Leader part and vacant position specifications.

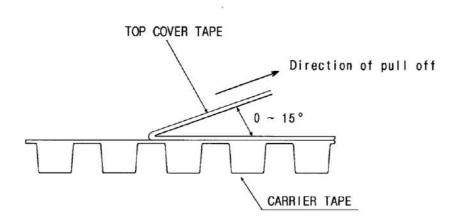


8. TAPE SPECIFICATIONS

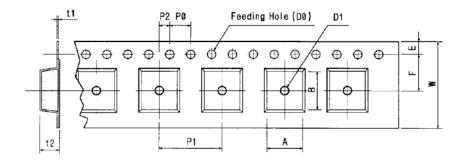
- 8.1 Tensile Strength of Carrier Tape: 4.4N/mm width
- 8.2 Top Cover Tape Adhesion (See the below figure)
 - (1) pull off angle: 0~15° (2) speed: 300mm/min.



(3) force: 20~70g



[Figure 1] Carrier Tape Dimensions



Tape Running Direction

[Unit:mm]

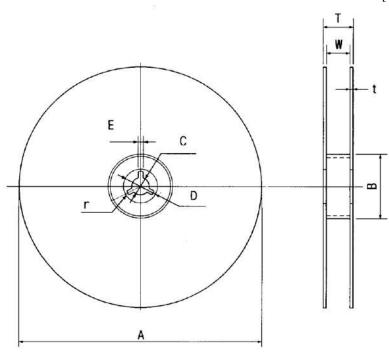
W	F	Е	P0	P1	P2	D0	D1	t1	t2	A	В
12.0	5.5	1.75	4.0	8.0	2.0	Ø1.5	Ø1.0	0.3	2.10	6.40	5.20
± 0.3	± 0.05	± 0.1	± 0.1	± 0.1	± 0.05	± 0.1	± 0.25	± 0.05	± 0.1	± 0.1	± 0.1

[Figure 2]



SAW FILTER





A	В	С	D	Е	W	t	r
Ø330	Ø100	Ø13	Ø21	2	13	3	1.0
± 1.0	± 0.5	± 0.5	± 0.8	± 0.5	± 0.3	max.	max.