

规格书编号

SPEC NO: HDFB41RSSB5SP06

产品规格书

SPECIFICATION

CUSTOMER 客户: _____
PRODUCT 产品: _____ SAW FILTER _____
MODEL NO 型号: _____ HDFB41RSS-B5 _____
MARKING 印字: _____ ● B069 _____
PREPARED 编制: _____ CHECKED 审核: _____
APPROVED 批准: _____ D A T E 日期: _____ 2017-10-12 _____

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

Factory Address: NO. 115, Gaoyun Road, Binhu Economic & Technology Development Area, Wuxi, Jiangsu, China. Tel: 86-510-85629111
Country of origin: China

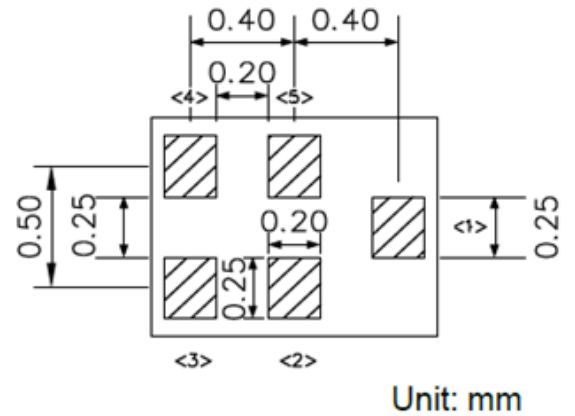
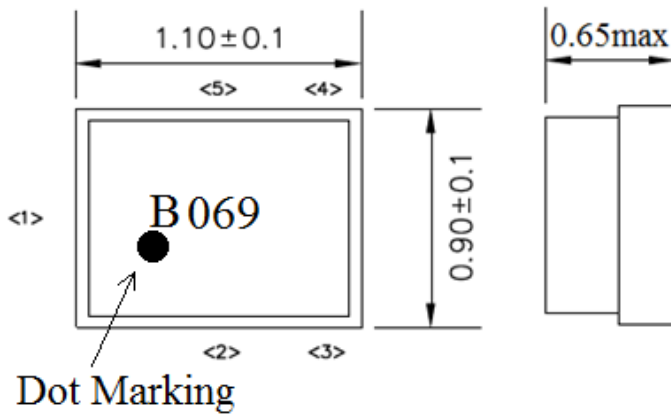
更改历史记录 History Record

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
2015-7-1	SP00	HDFB41RSS -B5		NEW SPEC.	
2016-5-6	SP01	HDFB41RSS -B5		Complete specifications. Add product application, reliability and other information.	
2016-07-07	SP02	HDFB41RSS -B5		Modify insertion loss.	
2016-08-23	SP03	HDFB41RSS -B5		Change carrier tape size. Carrier tape encryption.	10. TAPE SPECIFICATIONS [Figure 1] Carrier Tape Dimensions
2016-11-25	SP04	HDFB41RSS -B5		Correction device size. Thickness changed from 0.5max. to 0.65max	2. Package Dimension
2017-08-04	SP05	HDFB41RSS -B5		Add dot marking.	
2017-10-12	SP06	HDFB41RSS -B5		Add Land Pattern	

1. Application

- Low-loss RF filter for mobile telephone Band 41 systems, receive path (RX).
- Impedance 50 ohm input and output.
- Unbalanced to unbalanced operation.
- Useable passband 100MHz.
- RoHS compatible.

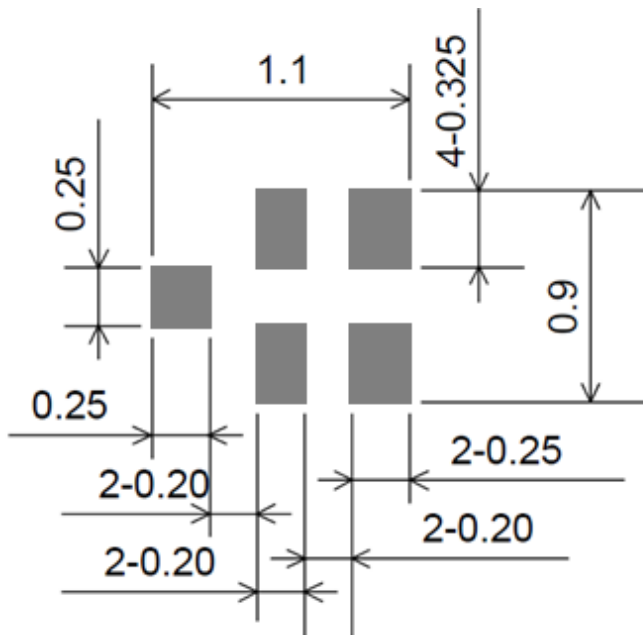
2. DIMENSION (PKG SIZE 1.1 x 0.9mm)



Pin configuration

- 1. Input
- 4. Output
- 2,3,5 To be grounded

Land Pattern

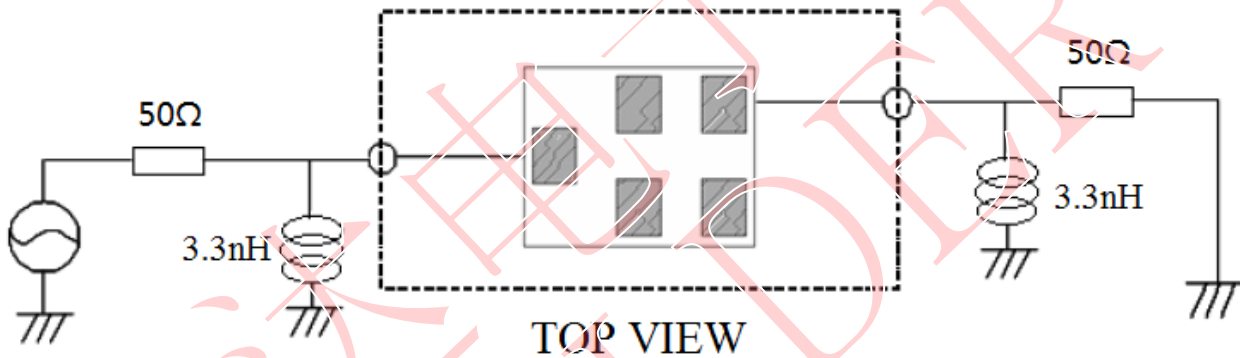


■ : Land Pattern
Unit : mm

3. Maximum Rating

Items	Conditions
Operation temperature rang	-30℃ ~ +85℃
Storage temperature rang	-40℃ ~ +85℃
ESD voltage	ESD(MM) : 50VDC
Sensitive discharge device	ESD(HBM) : 175VDC
DC Voltage VDC	5V
Max Input Power	15dBm 2000h
Moisture Sensivity Level	M3L 2

4. TEST CIRCUIT

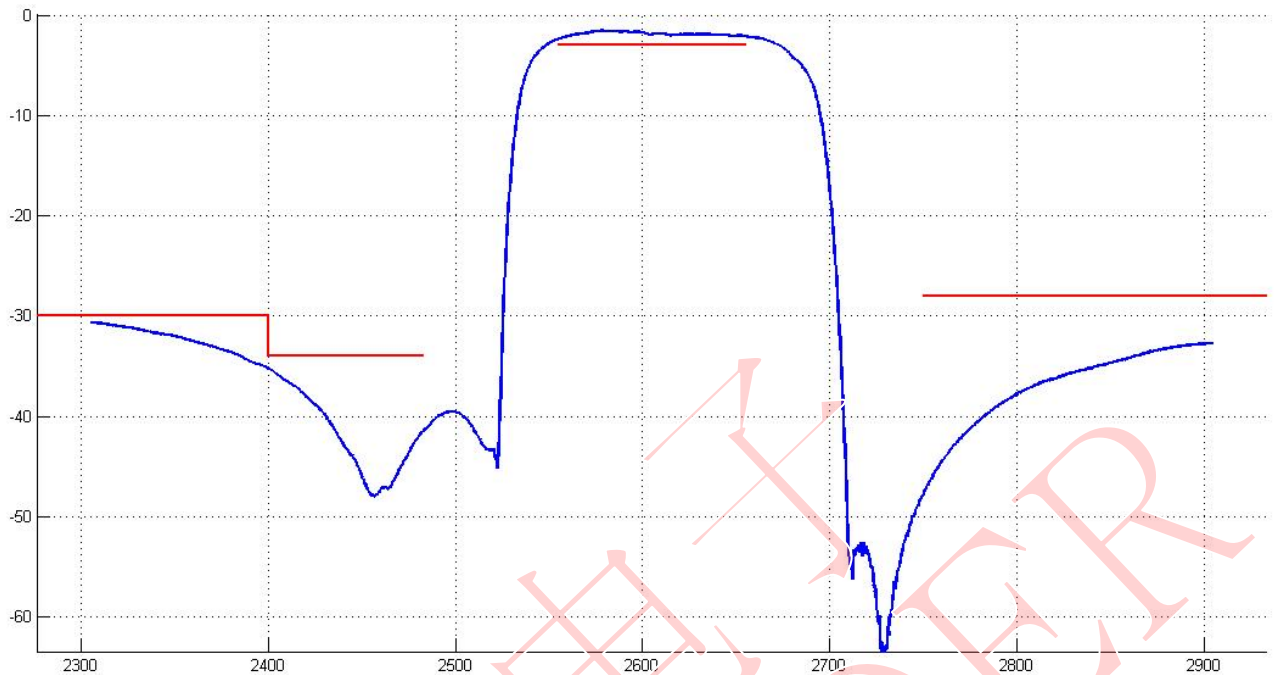


5. ELECTRICAL SPECIFICATION

T = -20~+85℃

Items	Test Condition	Min	Typ	Max	Unit
Center Frequency	-	-	2603	-	MHz
Insertion Loss	2555~2655 MHz	-	2.3	2.8	dB
Amplitude Ripple	2555~2655 MHz	-	1.6	2.3	dB
Input VSWR	2555~2655 MHz	-	1.6	2.0	
Output VSWR	2555~2655 MHz	-	1.6	2.0	
Absolute Attenuation	10~915 MHz	35	40	-	dB
	915~1560 MHz	30	35	-	dB
	1560~1610 MHz	30	35	-	dB
	1610~2170 MHz	30	35	-	dB
	2170~2400 MHz	30	36	-	dB
	2400~2483 MHz	35	37	-	dB
	2750~4900 MHz	28	40	-	dB
	4900~6000 MHz	25	35	-	dB
6000~8000 MHz	23	30	-	dB	
Termination Impedance	Input: 50 ohm // 3.3 nH Output: 50 ohm // 3.3 nH				

6. Typical frequency response



7. ENVIRONMENTAL CHARACTERISTICS

7.1 High temperature exposure

Subject the device to +85°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 5.

7.2 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 5.

7.3 Temperature cycling

Subject the device to a low temperature of -40°C for 30 minutes. Following by a high temperature of +85°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 5.

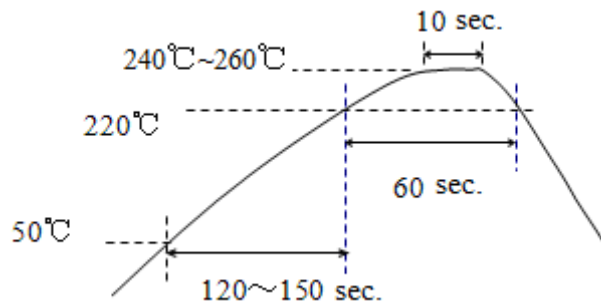
7.4 Resistance to solder heat

- 1、immerge the solder bath at 260°C for 10 sec.
- 2、the iron at 370°C for 3 sec

7.5 Solderability

Submerge the device terminals into the solder bath at 245°C ±5°C for 5s, More than 95% area of the soldering pad must be covered with new solder. It shall meet the specifications in 5.

7.6 Reflow soldering



The specimen shall be passed through the reflow furnace with the condition shown in the above profile for 1 time.

The specimen shall be stored at standard atmospheric conditions for 1h, after which the measurement shall be made. Test board shall be 1.6 mm thick. Base material shall be glass fabric base epoxy resin.

7.7 Mechanical shock

Drop the device randomly onto the concrete floor from the height of 1m 3 times. the device shall fulfill the specifications in 5.

7.8 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 5.

8. REMARK

8.1 Static voltage

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

8.2 Ultrasonic cleaning

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

8.3 Soldering

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

9. Packing

9.1 Dimensions

(1) Carrier Tape: Figure 1

(2) Reel: Figure 2

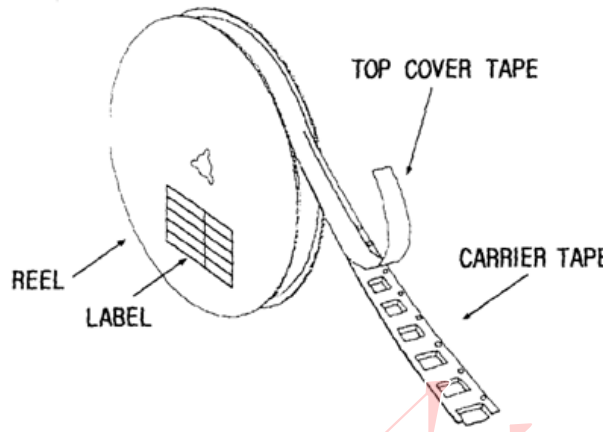
(3) The product shall be packed properly not to be damaged during transportation and storage.

9.2 Reeling Quantity

10000 pcs/reel ϕ 178mm

9.3 Taping Structure

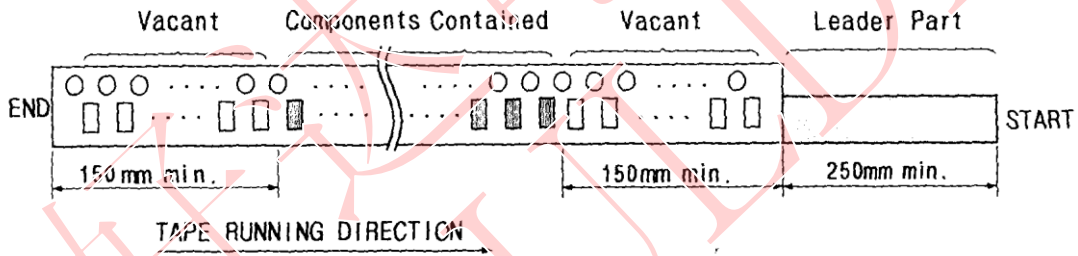
(1) The tape shall be wound around the reel in the direction shown below.



(2) Label

Device Name	
Marking	
User Product Name	
Quantity	
Lot No.	

(3) Leader part and vacant position specifications.

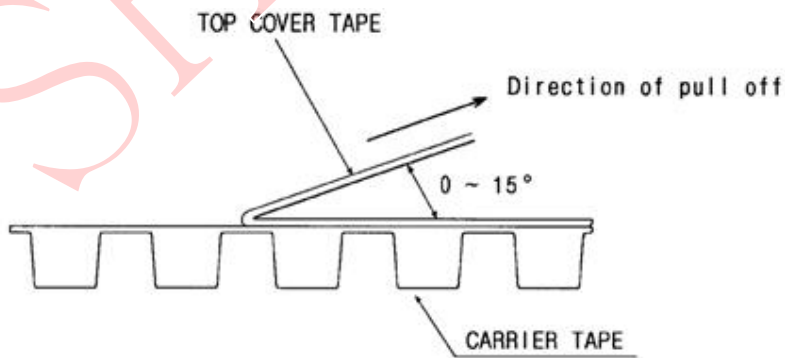


10. TAPE SPECIFICATIONS

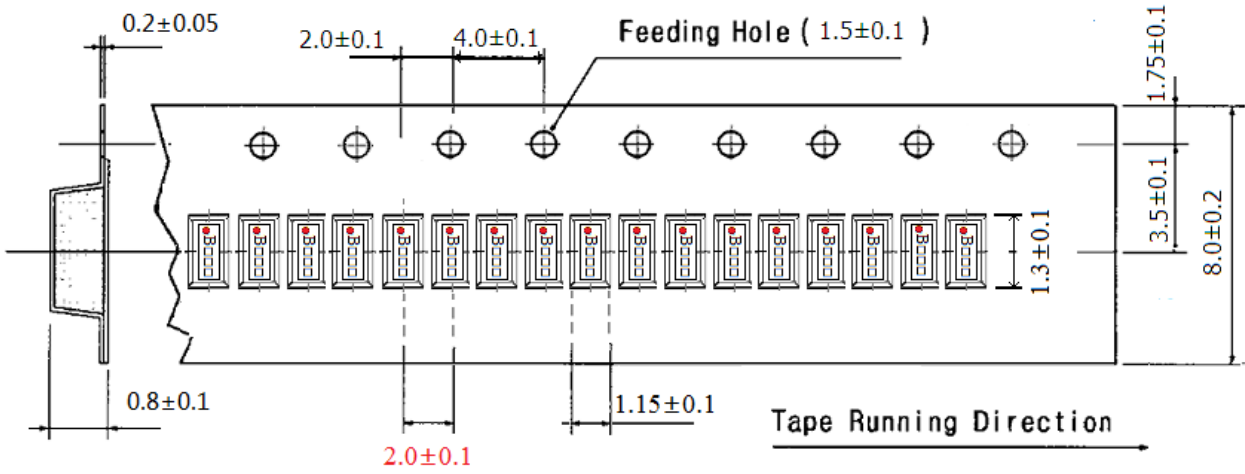
10.1 Tensile Strength of Carrier Tape: 4.4N/mm width

10.2 Top Cover Tape Adhesion (See the below figure)

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

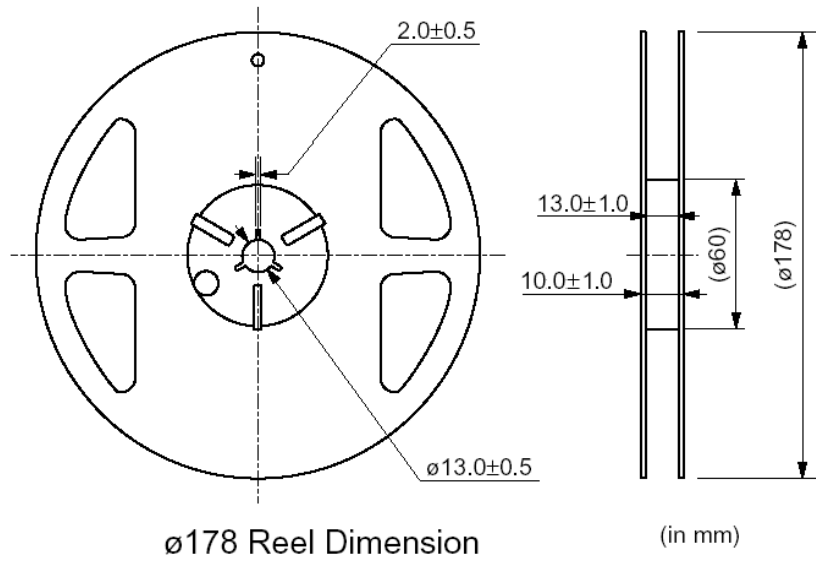


[Figure 1] Carrier Tape Dimensions



Prior to the size of 4.0 ± 0.1 , after encryption, modified to 2.0 ± 0.1 .

[Figure 2] 10000 pcs/reel ϕ 178mm



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