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：HDF319.5M-S3

MARKING 印 字：HDF341

PREPARED 编 制： CHECKED 审 核：

APPROVED 批 准： D A T E 日 期：2010-12-23

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

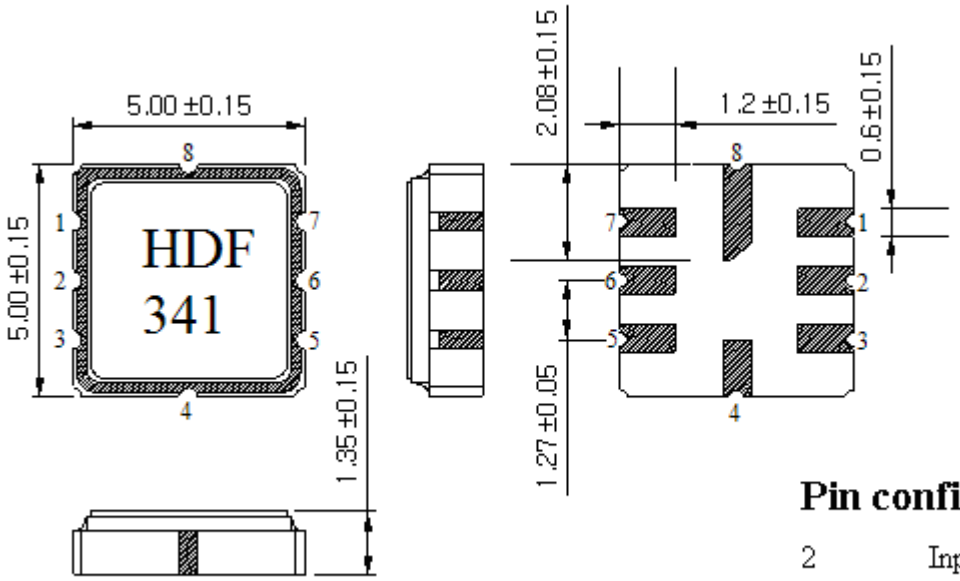
无锡市好达电子有限公司

Shoulder Electronics Limited

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.Package



Pin configuration

2	Input/ Output
6	Output/ Input
4,8	Case Ground

Marking：HDF341

HD: Brand
F: Filter
341: No.

2. Performance

2.1 Absolute Maximum Ratings

Rating	Value	Units
Input Power Level	10	dBm
Storage Temperature	-40 to +85	℃
DC Voltage	12	VDC

2.2 Electrical Characteristics

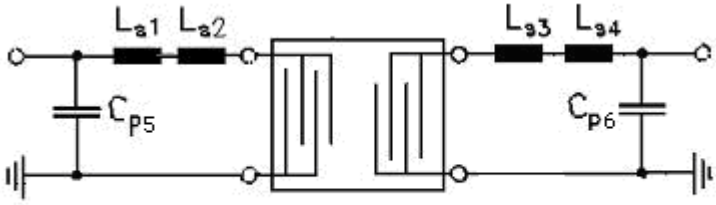
Characteristic		Sym	Notes	Min	Typical	Max	Units
Center frequency	Absolute frequency	Fc	1.2	319.42	319.500	319.58	MHz
	Tolerance from nominal	Δ fc				±80	KHz
Insertion Loss		IL	1		3.0	4.5	dB
3dB Bandwidth		BW3	1.2	500	600	800	KHz
Passband Ripple (Fc±300 KHz)					0.5	1.0	dB
Rejection	At fo-21.4MHz (Image)		1	40	50		dB
	At fo-10.7 MHz (LO)			16	40		dB
	Ultimate				80		dB
Temperature characteristics	Operating case temp.	Tc	3.4	-40		+85	℃
	Turnover temp.	To		25	40	55	℃
	Turnover Frequency	fo			fc		MHz
	Fre.temp.coefficent	FTC			0.032		ppm/℃
Frequency aging			5		<±10		ppm/y

Note:

1. Typical test circuit is shown as below.
2. Passband and reject bands are specified in reference to fc.
3. The turnover temperature, To, is the temperature at the maximum frequency, Fo.
4. The nominal frequency at any case temperature, Tc, inside the operating temperature range may be calculated from:$f=fo[1-FTC(To-Tc)^2]$.

5.Typical aging is for 10 years.

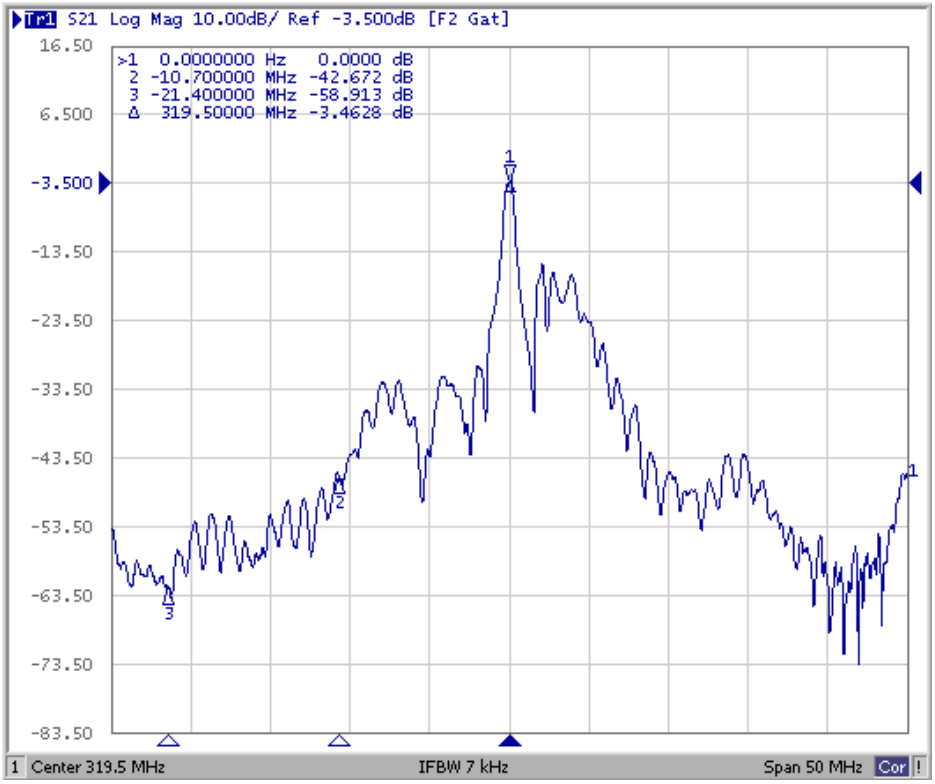
3.Matching network to 50Ω (element values depend on pcb layout and equivalent circuit)

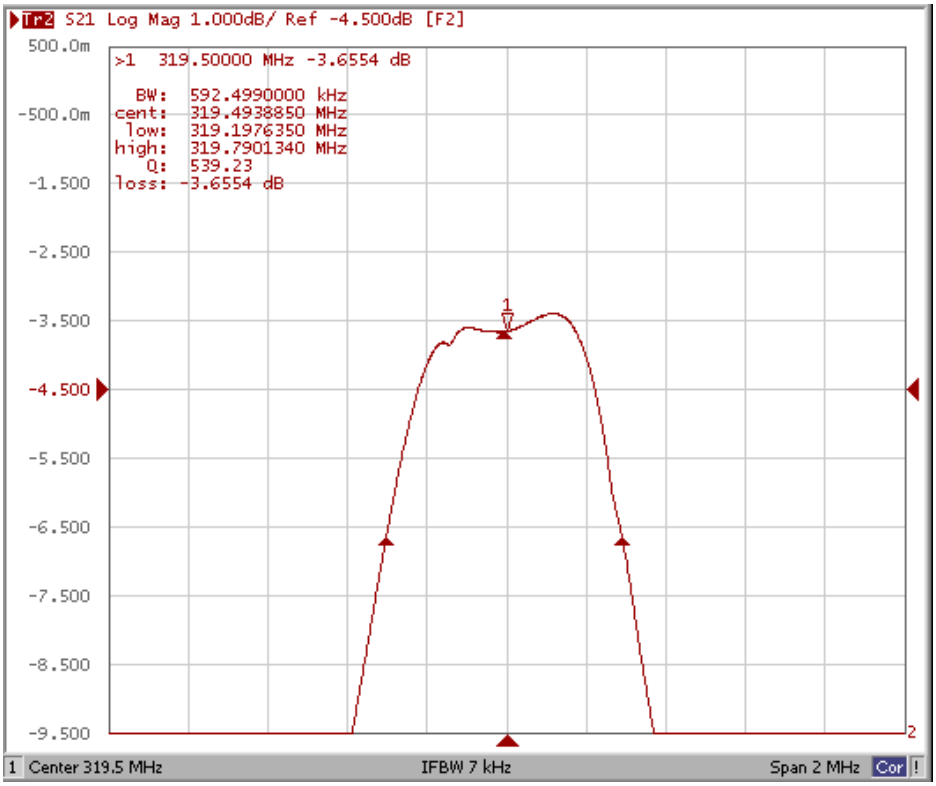


Cp5=Cp6=15pF, Ls1=Ls4=8.2nH*, Ls2=Ls3=56nH*,

Ls1234=6 turns of 0.51mm insulated Copper, 2.5mm ID.

4. Typical Frequency Response





5. Packing

5.1 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.

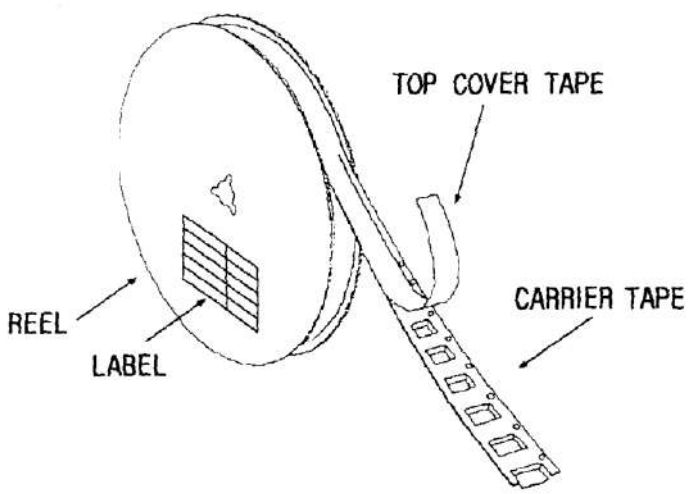
5.2 Reeling Quantity

1000 pcs/reel 7''

3000 pcs/reel 13''

5.3 Taping Structure

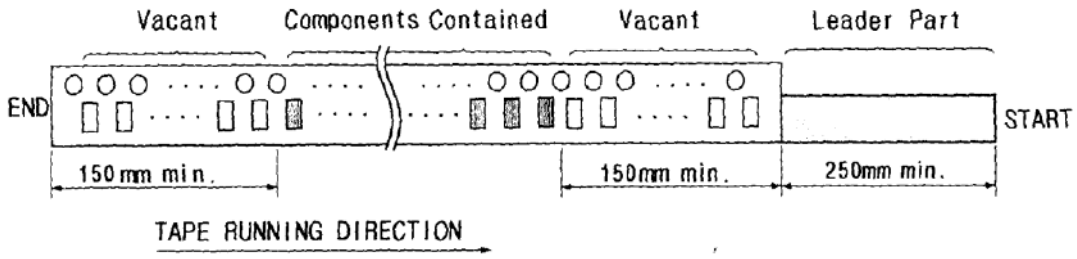
(1) The tape shall be wound around the reel in the direction shown below.



(2) Label

Device Name	
User Product Name	
Quantity	
Lot No.	

(3) Leader part and vacant position specifications.

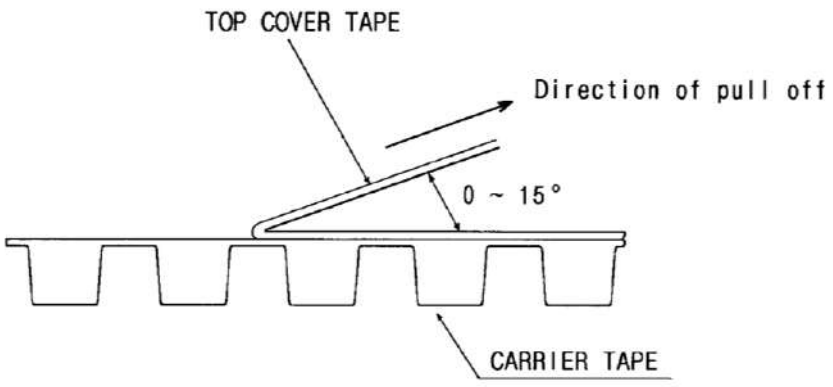


6. TAPE SPECIFICATIONS

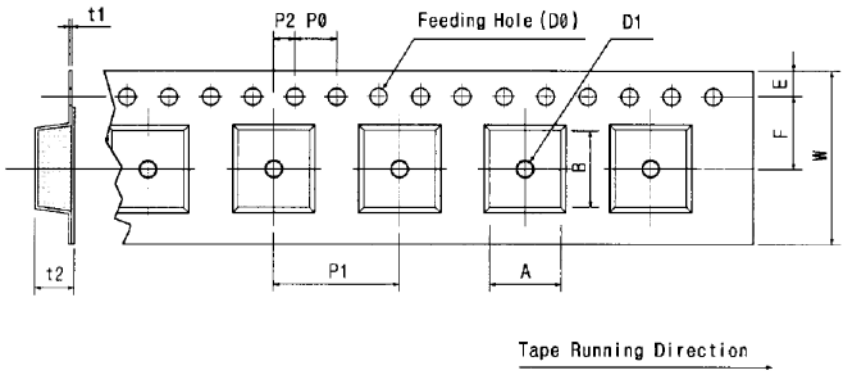
6.1 Tensile Strength of Carrier Tape: 4.4N/mm width

6.2 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

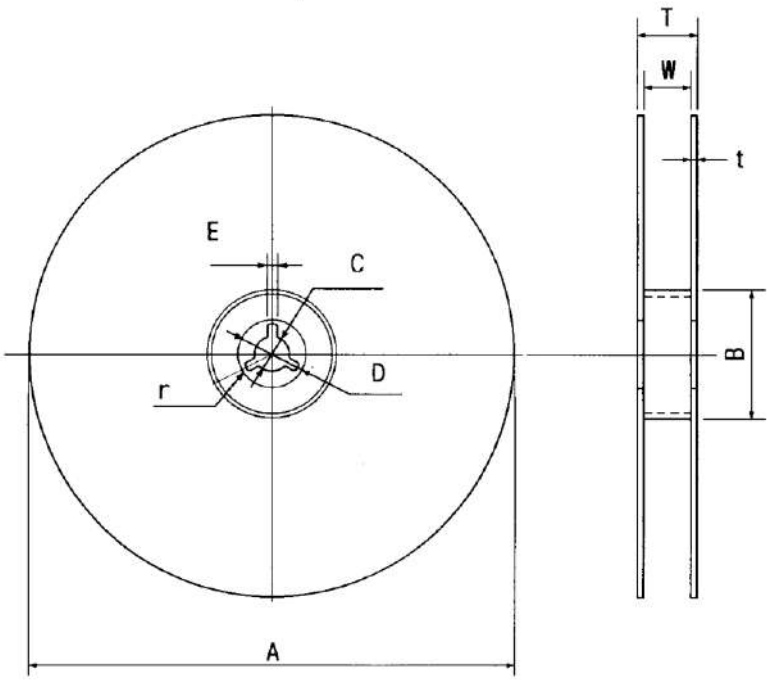


[Unit:mm]

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

[Figure 2]

[Unit:mm]



A	B	C	D	E	W	t	r
Ø330 ±1.0	Ø100 ±0.5	Ø13 ±0.5	Ø21 ±0.8	2 ±0.5	13 ±0.3	3 max.	1.0 max.