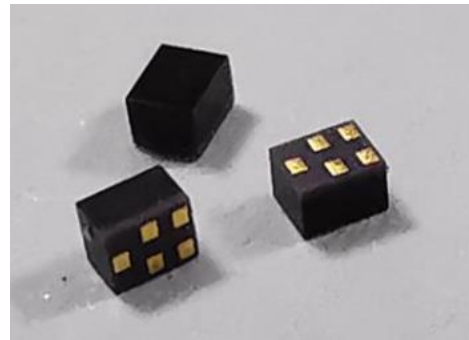


WUHAN YANXI MICRO-COMPONENT CO., LTD.			
<b>Date</b>	<b>Nov. 07. 2019</b>	<b>System</b>	<b>W-LAN/BT</b>
<b>Part Number</b>	<b>FR0WFCF3A002</b>	<b>Version 1.0</b>	<b>Final</b>

## 2.4GHz WLAN/BT Filter Standard Specification



### Product Features

- Typical Insertion Loss in the Pass Band is Less than 3.0 dB
- Bluetooth/WLAN with LTE Band 40 Coexistence
- Plastic Chip Scale Package(CSP)
- Miniature Size  
-1.1 mm X 0.9 mm Footprint  
-0.6 mm Max Height
- RoHS Compliant, Pb-free

### Applications

- WiFi Band Pass Filter
- Handsets
- Portable Hotspots
- Mobile Routers
- Smart Meters
- High-Power WLAN Access Points

### Description

It is a High-Performance, High Power Bulk Acoustic Wave (BAW) Band-Pass Filter with Extremely Steep Skirts, Simultaneously Exhibiting Low Loss in the WiFi Band.

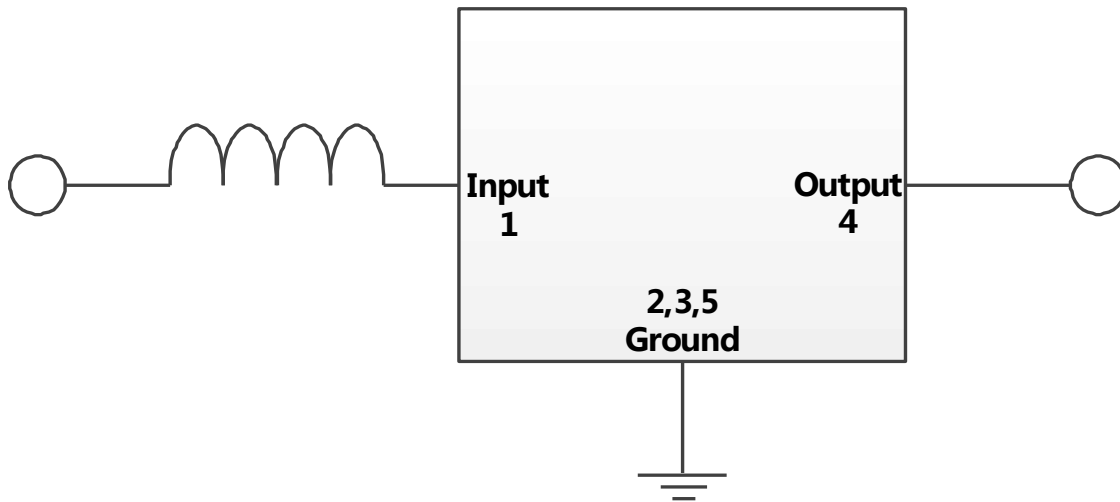
## Matching Circuit

Input Terminating Impedance

$Z_{IN} = 50 \Omega$  with Series 1 nH

Output Terminating Impedance

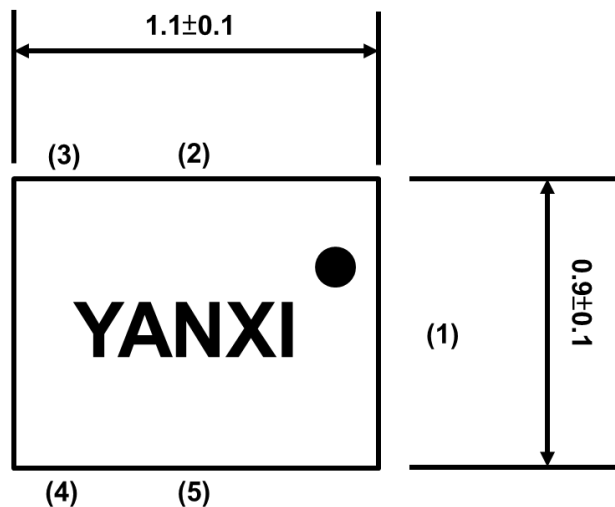
$Z_{OUT} = 50 \Omega$



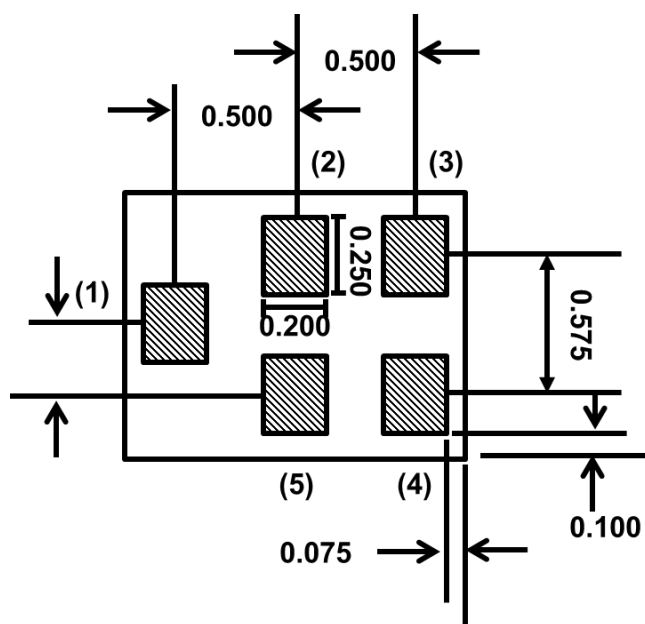
## General Description

Pin No.	Symbol	DESCRIPTION
1	IN	RF Input
2	GND	Ground Connection
3	GND	Ground Connection
4	OUT	ANT Antenna Port
5	GND	Ground Connection

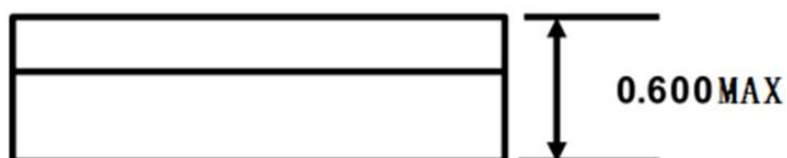
### Top View



### Bottom View



### Side View

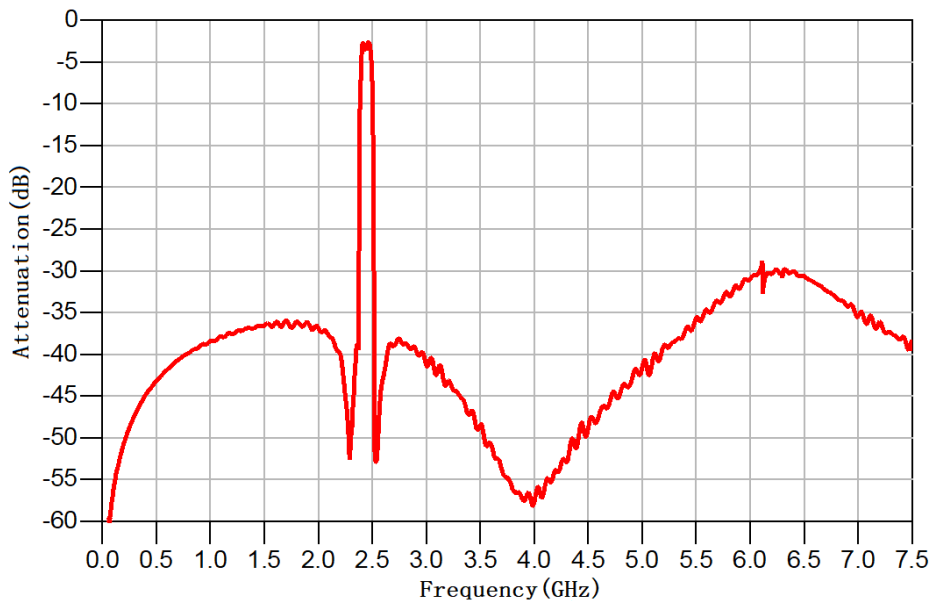
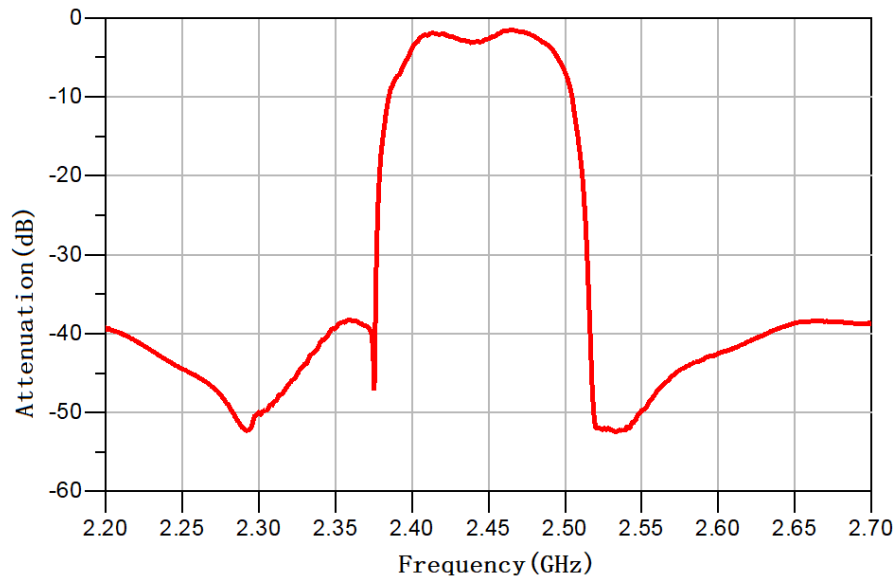
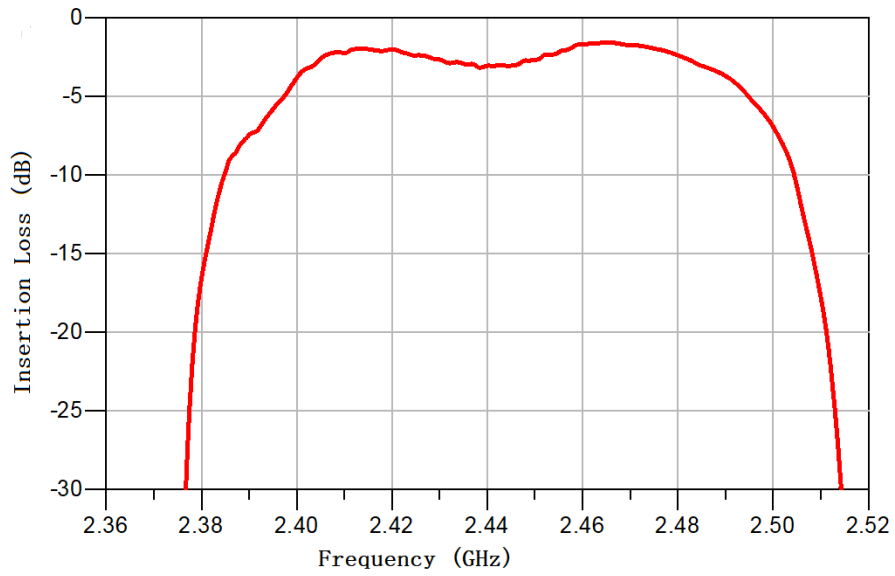


## Electrical Specifications

Characteristics		Unit	Min	TYP <sup>(1)</sup>	Max
<b>Bandpass Filter (2402.5~2481.5 MHz)</b>				<b>@+25° C</b>	
<b>Insertion Loss</b>		<b>dB</b>			
Wi-Fi Ch1	2402.5~2421.5 MHz		-	2.2	3.0
Wi-Fi Ch2	2407.5~2426.5 MHz		-	2.1	2.3
Wi-Fi Ch3~11	2412.5~2471.5 MHz		-	2.3	3.0
Wi-Fi Ch12	2457.5~2476.5 MHz		-	1.7	2.0
Wi-Fi Ch13	2462.5~2481.5 MHz		-	1.8	2.5
Amplitude Ripple (2402.5-2481.5)	2462.5~2481.5 MHz		-	1.8	-
VSWR @Input Port	2462.5~2481.5 MHz	-		1.4	1.7
VSWR @Output Port	2462.5~2481.5 MHz	-		1.3	1.5
<b>Minimum Attenuation</b>		<b>dB</b>			
	699~960 MHz		38	40	-
	960~1805 MHz		36	37	-
	1805~2170 MHz		36	37	-
	2300~2360 MHz		38	44	-
	2360~2365 MHz		38	38	-
	2365~2370 MHz		38	39	-
	2370~2380 MHz		18	34	-
	2496~2501 MHz		6	9	-
	2500~2505 MHz		6	10	-
	2505~2550 MHz		15	45	-
	2550~2570 MHz		45	48	-
	2570~2620 MHz		41	43	-
	2620~2690 MHz		38	39	-
	4800~5805 MHz		32	38	-
	7200~7500 MHz		36	37	-

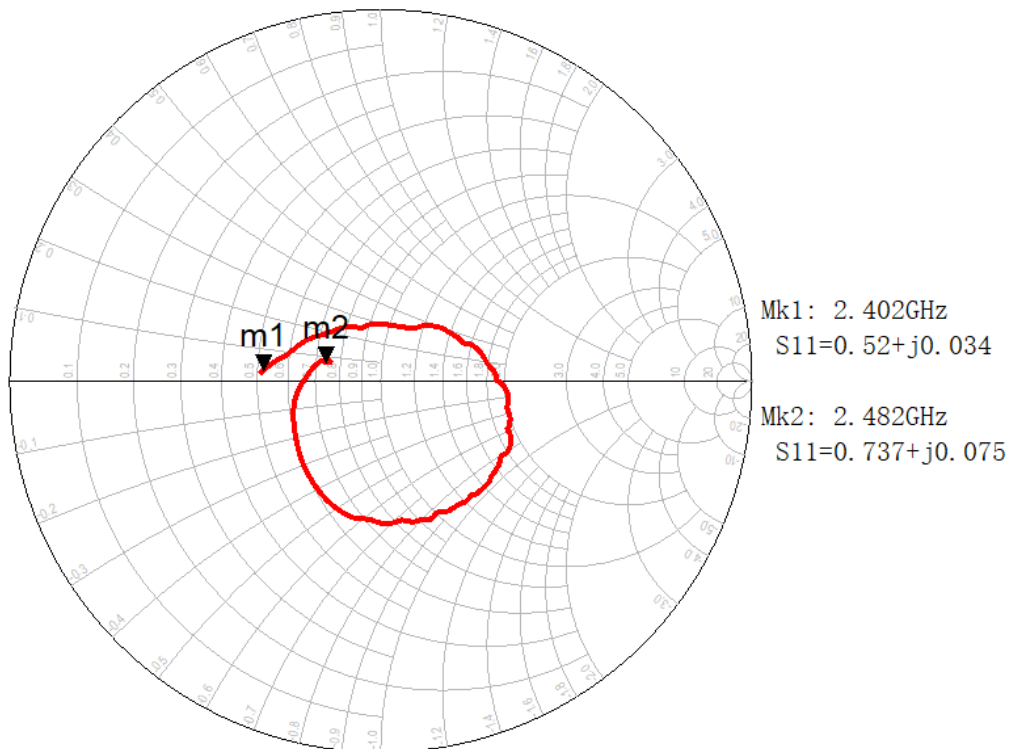
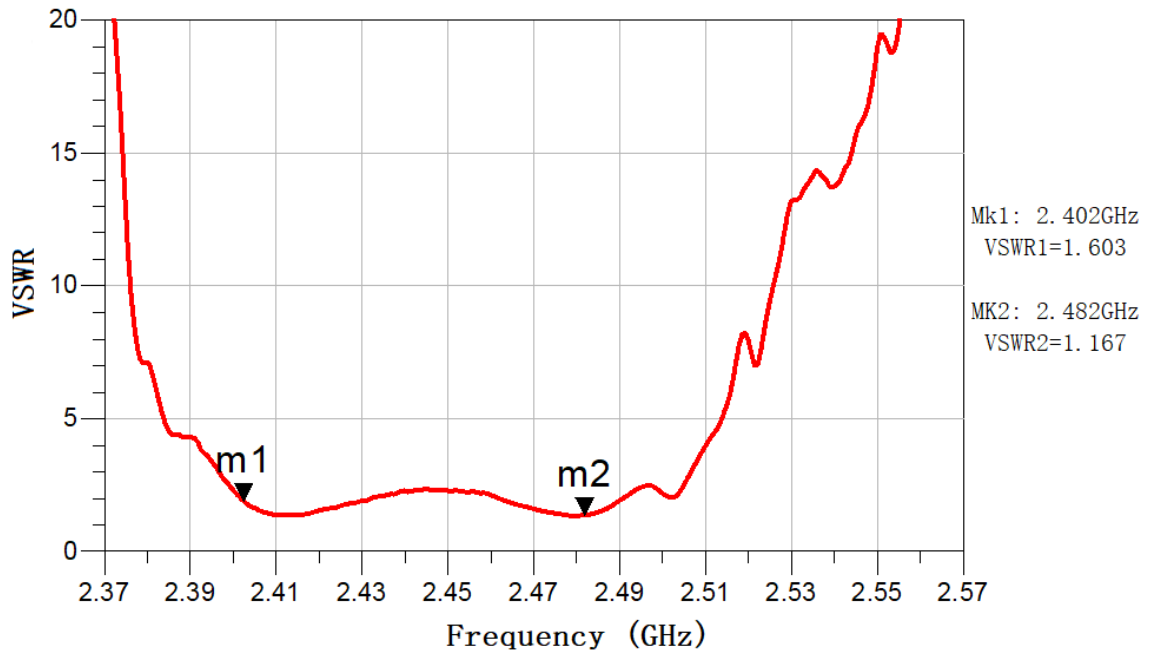
(1) The Typical Value is Average Value of Each Frequency Band.

## Transmission Coefficient



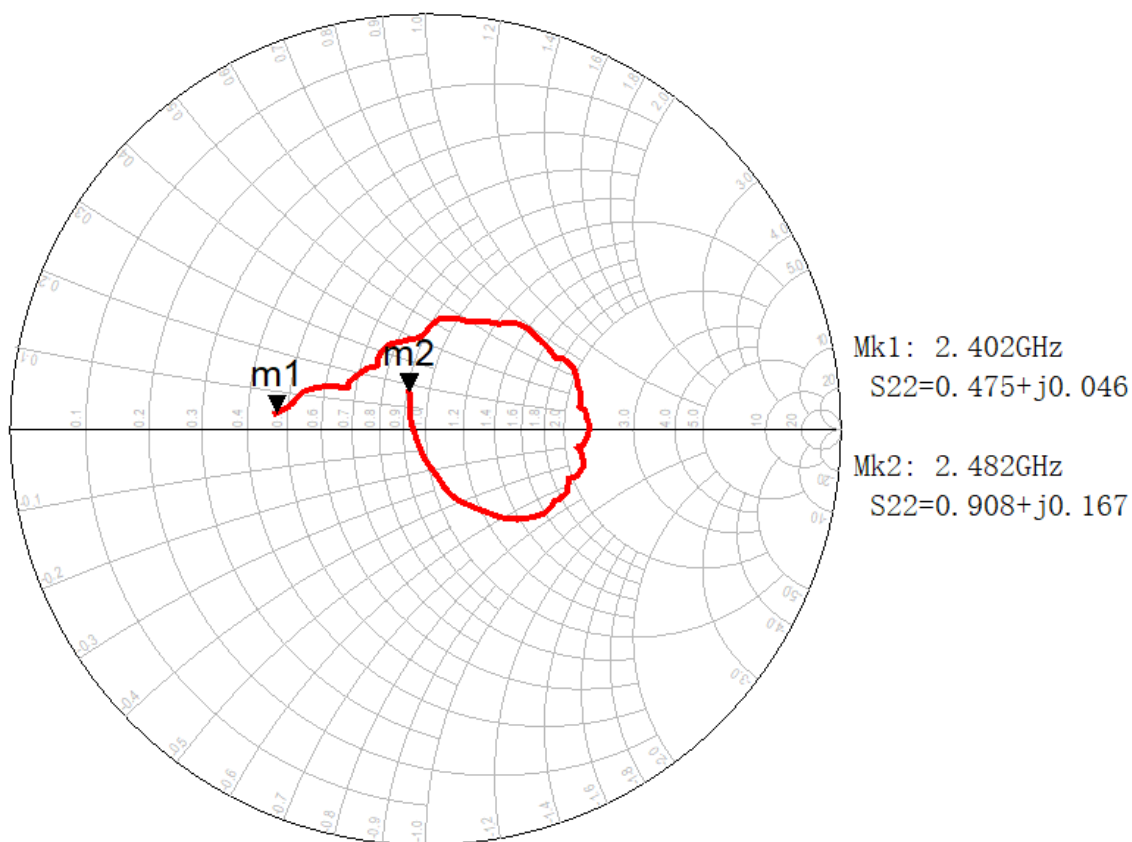
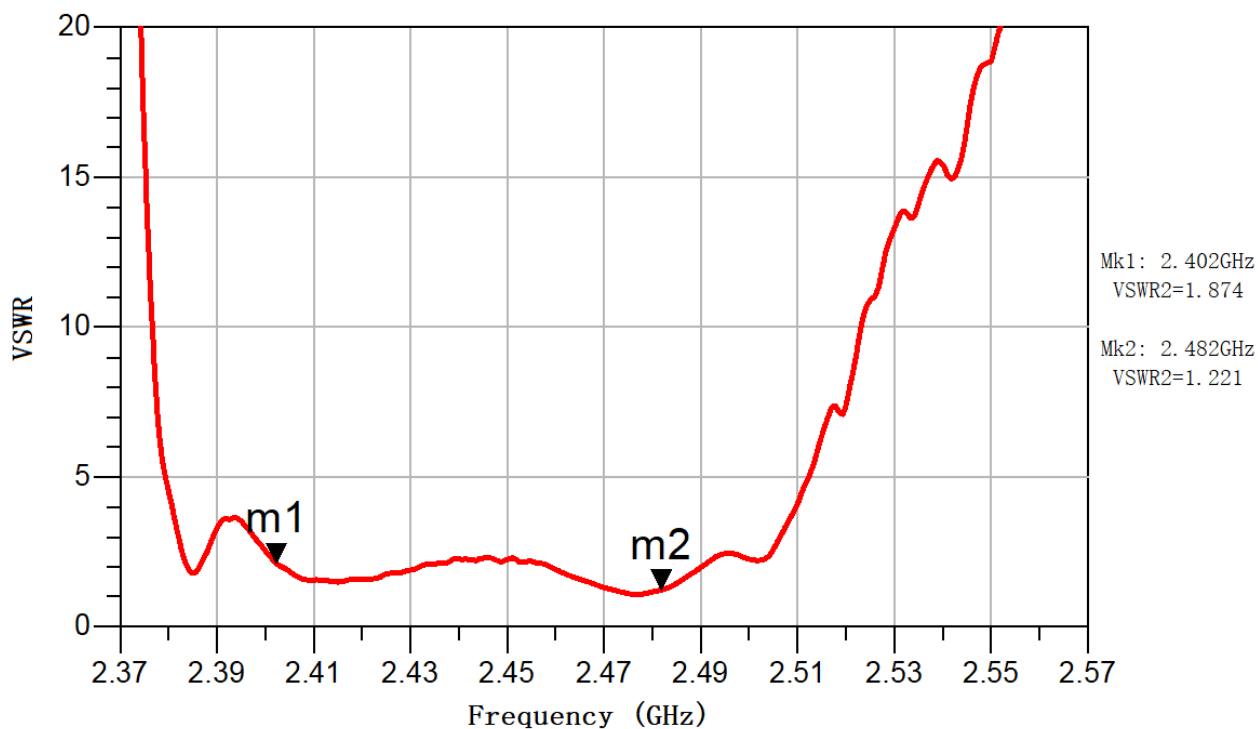
## Reflection Coefficients

### Input Port



freq (2.402GHz to 2.482GHz)

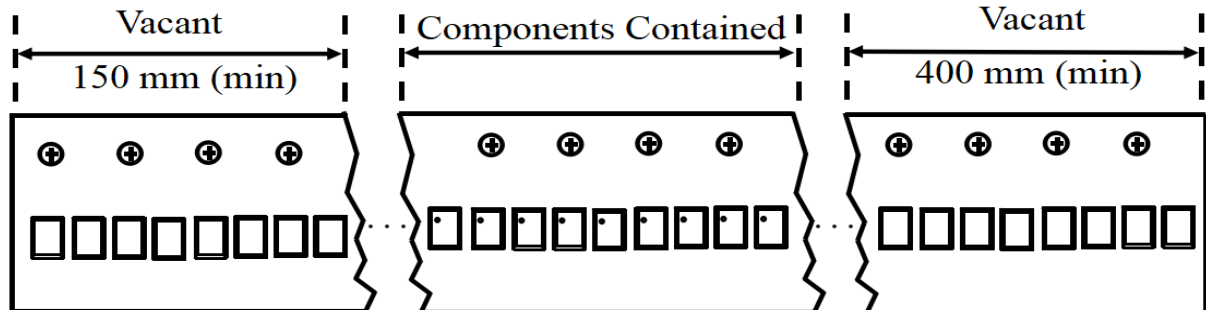
### Output Port



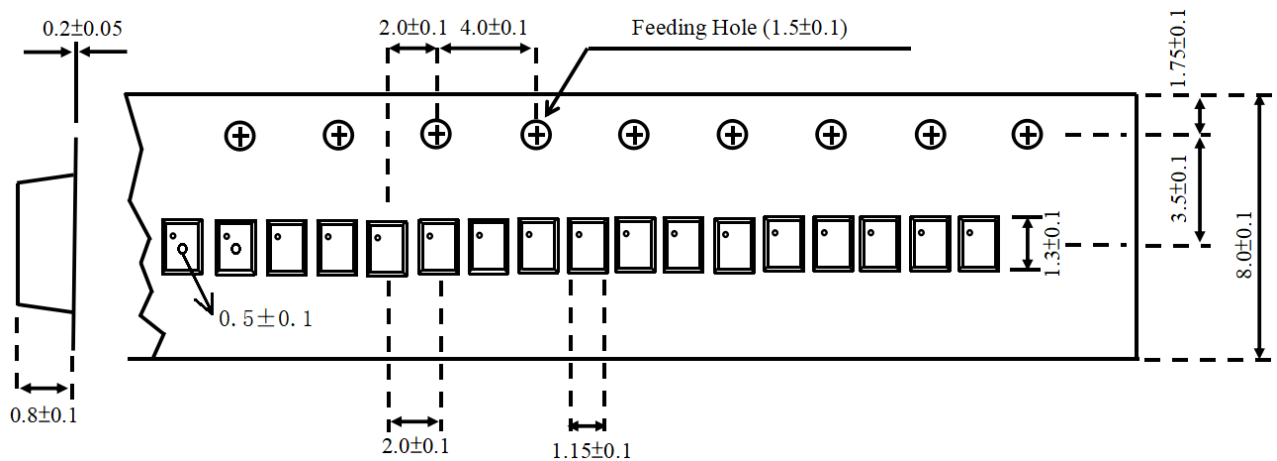
freq (2.402GHz to 2.482GHz)

## Packing

### (1).Leader Part and Vacant Position Specifications

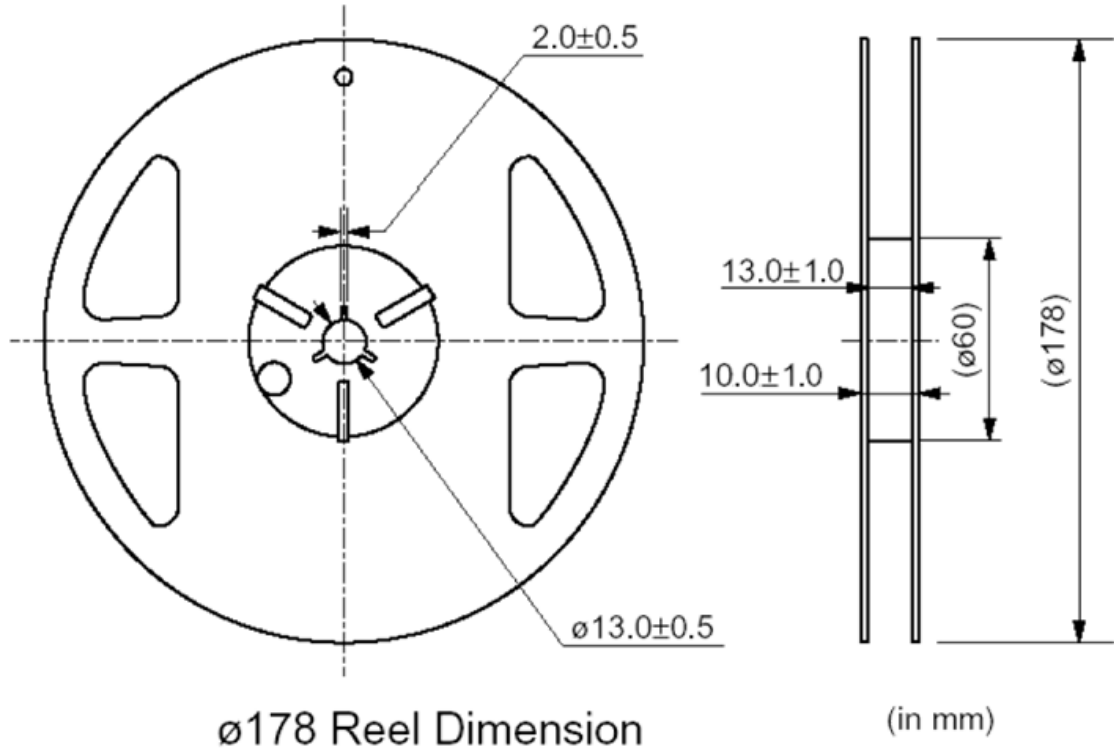


### (2).Tape Specifications





10000 pcs/reel  $\phi$  178 mm



**(3).Carton Box**

Dimensions [mm]

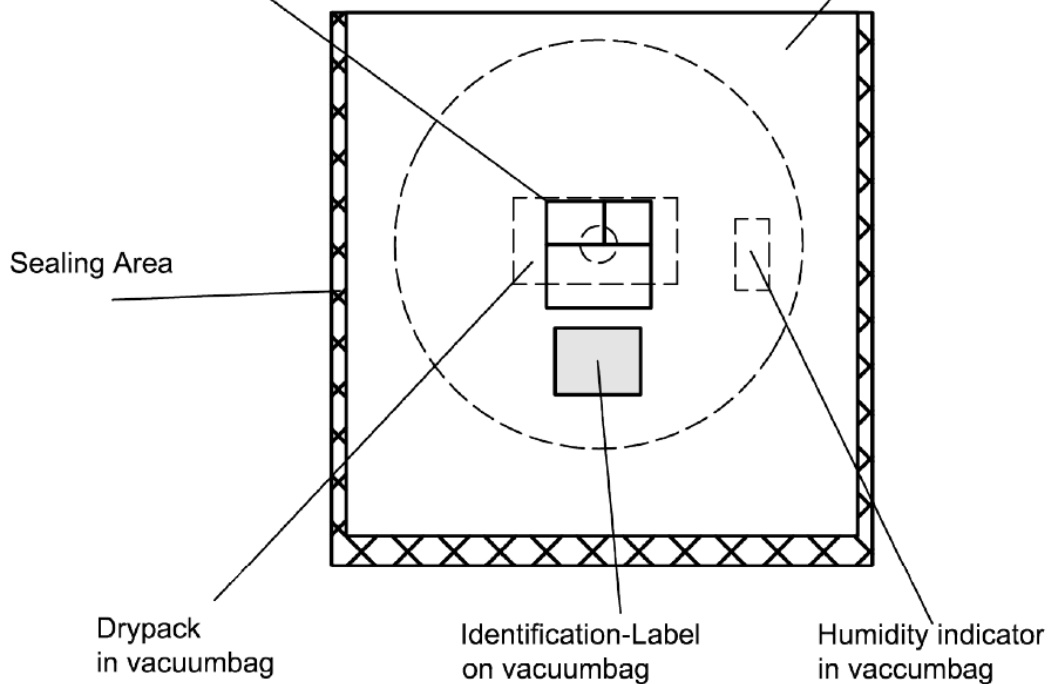
X = 220+5

Y = 235+5

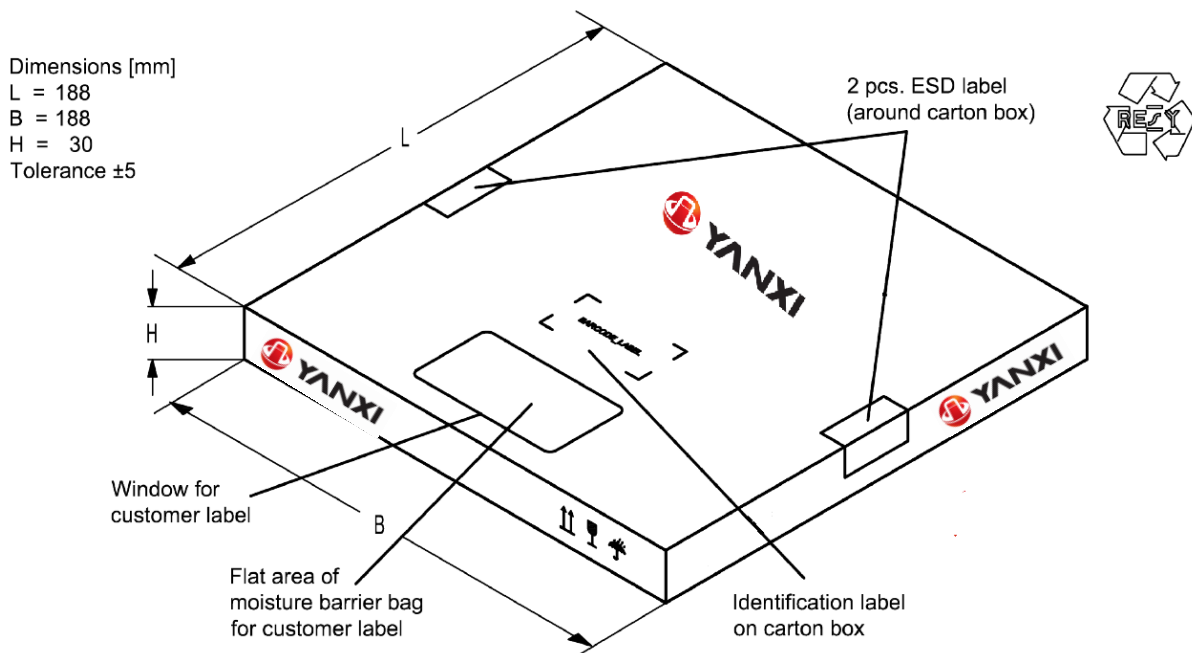
Sealing area  $10 \pm 3$

Printing on vacuumbag

Vacuumbag



Drawing of Moisture Barrier Bag (MBB) for Reel with Diameter of 178 mm



Drawing of Folding Box for Reel with Diameter of 178 mm

## History Record

Date	Spec.NO.	Part NO.	Modify Content	Remark

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## Contact Information

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