

WUHAN YANXI MICRO-COMPONENT CO.,LTD.			
Date	May. 08. 2020	System	Band 41
Part Number	FR041CF3A001	Version 1.0	Original

2.6GHz Band 41(194MHz) Filter Standard Specification



Product Features

- Typical insertion loss in the pass band is less than 3.0dB
- Plastic Chip Scale Package(CSP)
- Miniature Size
 - 1.1 mm X 0.9 mm Footprint
 - 0.6mm Max Height
- RoHS compliant, Pb-free

Applications

- Band 41
- Handsets
- Base Station Infrastructure
- Small Cells
- Routers
- LTE Dongles
- General Purpose Wireless

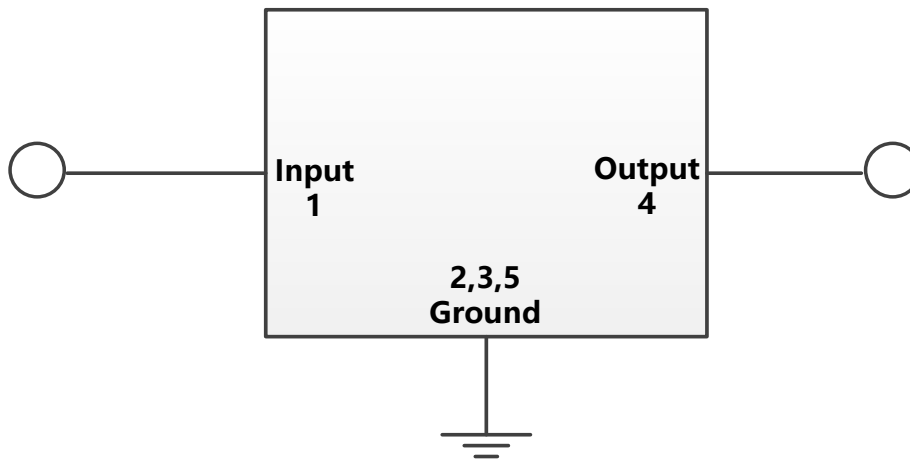
Description

It is a High-Performance, High Power Bulk Acoustic Wave(BAW)band-pass filter with extremely steep skirts, simultaneously exhibiting low loss in the Band 41.

Matching circuit

Input terminating impedance

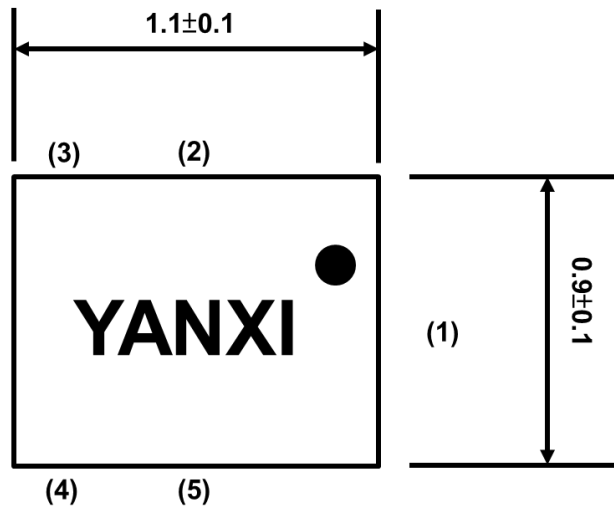
Output terminating impedance



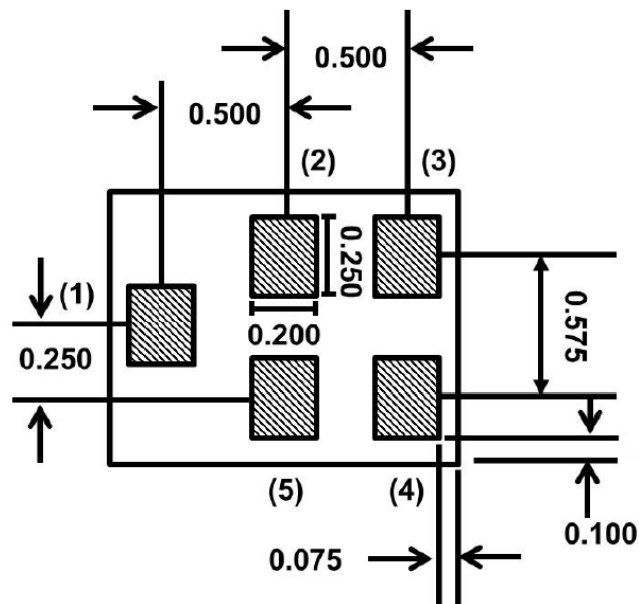
General Description

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

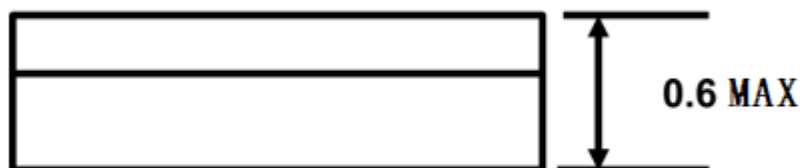
Top View



Bottom View



Side View

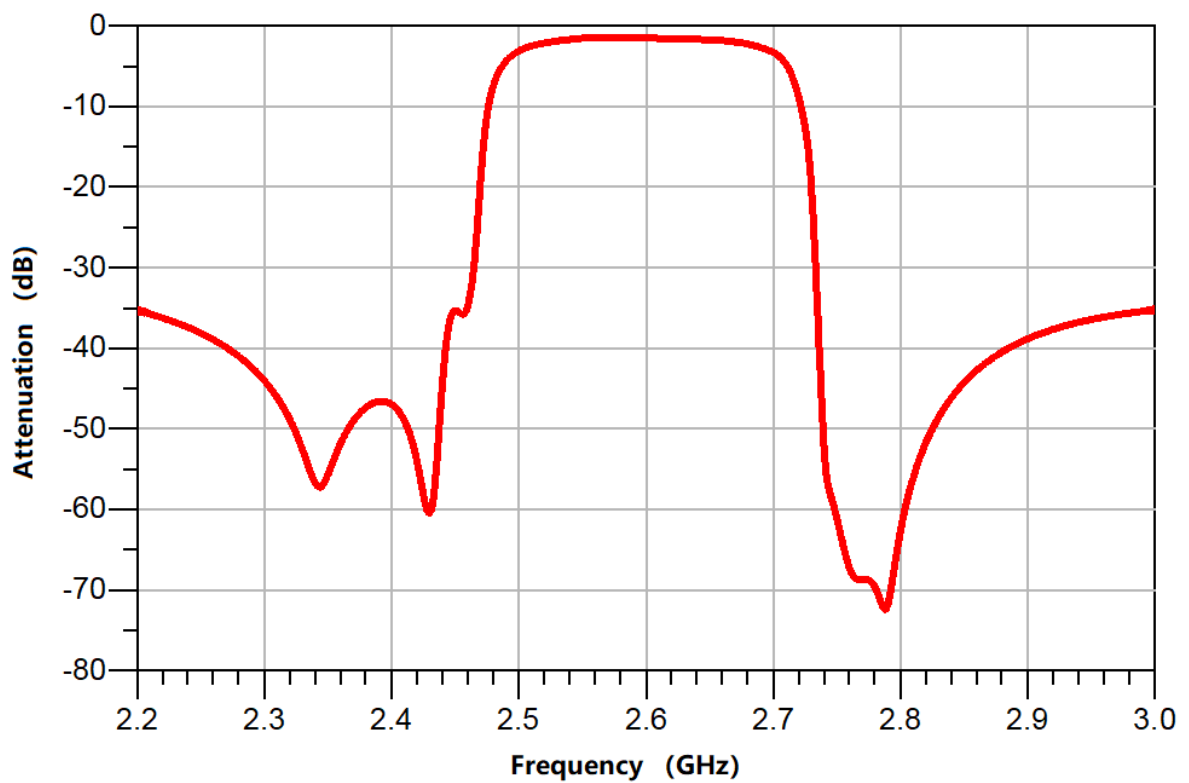
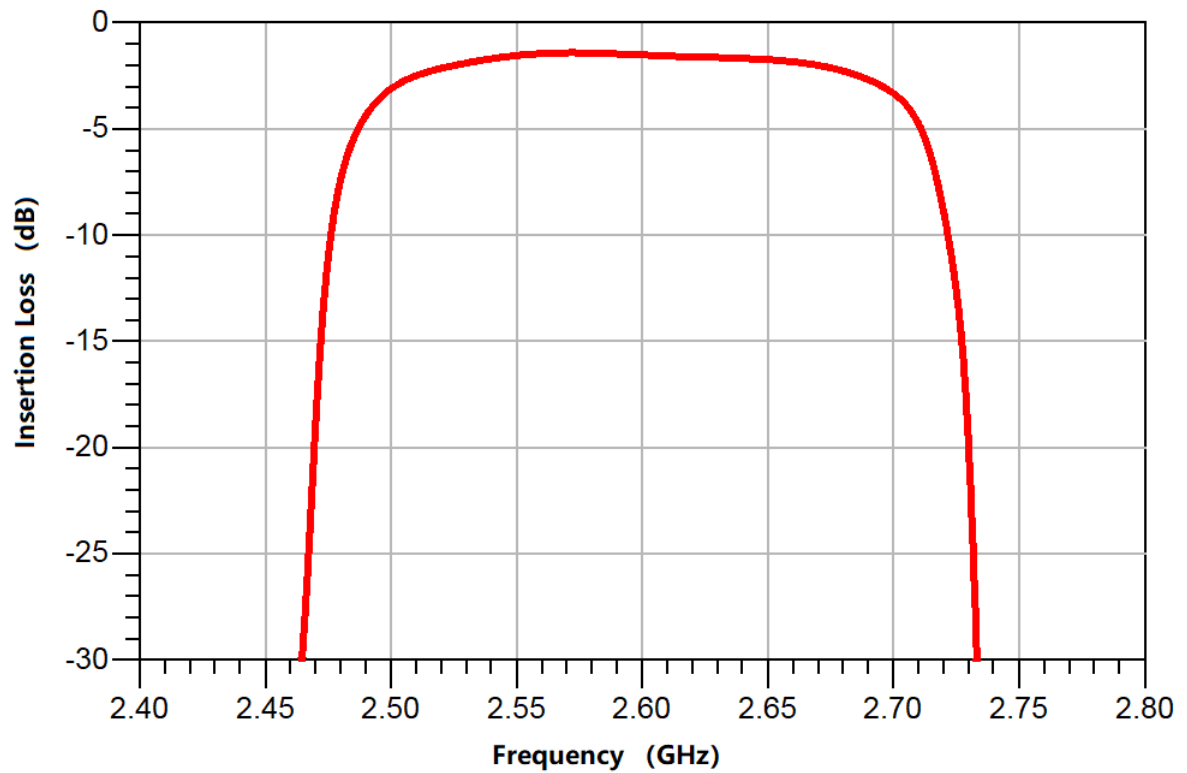


Electrical Specifications

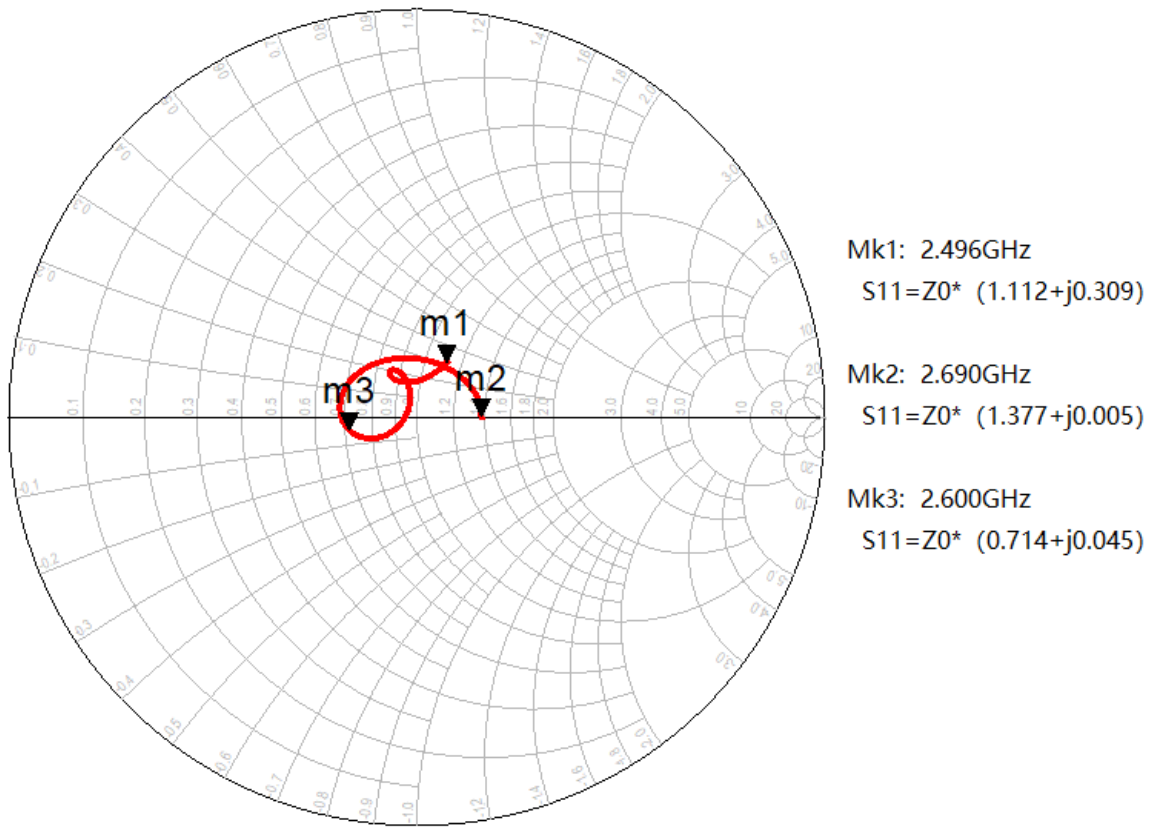
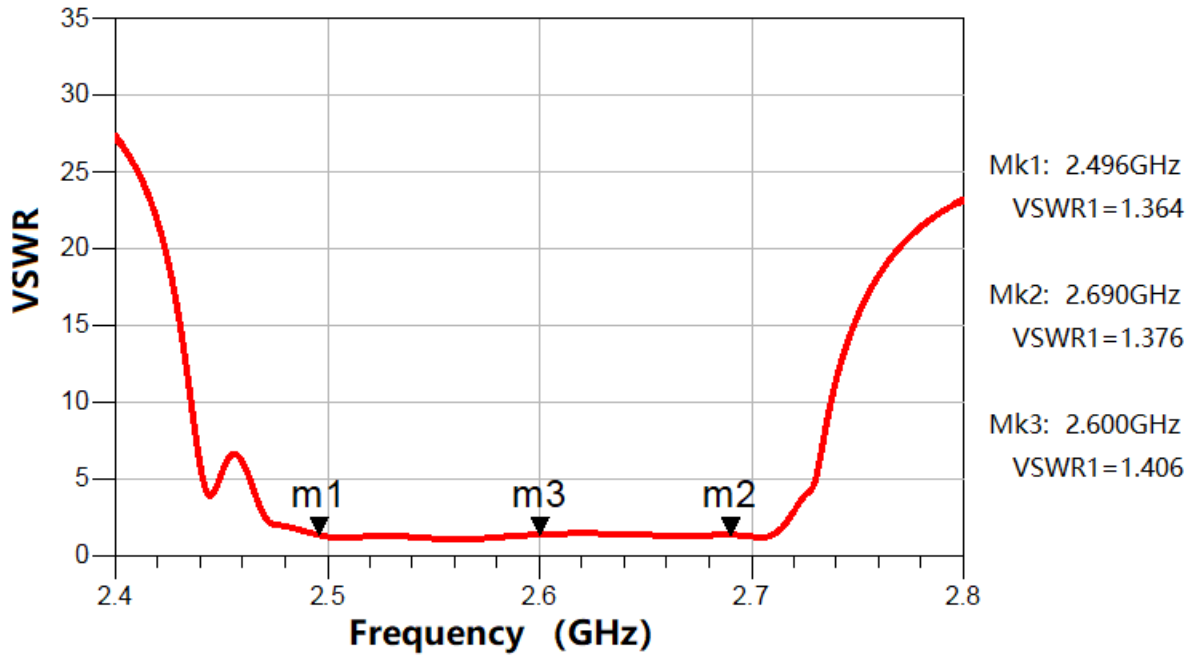
Characteristics	Unit(dB)	Min	Typ ⁽¹⁾	Max
Bandpass Filter (2496~24690 MHz)		@+25° C		
Insertion Loss	2496~2525 MHz	-	2.5	3.4
	2525~2670 MHz		1.5	2
	2670~2690 MHz	-	2.4	2.7
	2545~2575 MHz	-	1.7	2.2
	2555~2655 MHz	-	1.4	1.8
Amplitude Ripple	2496~2690 MHz	-	1.2	-
VSWR @input port	2496~2690 MHz	-	1.3	1.5
VSWR @output port	2496~2690 MHz	-	1.3	1.5
Minimum Attenuation		dB		
WIFI ch1	2402~2422 MHz	46	49	-
WIFI ch2	2407~2427 MHz	48	52	-
WIFI ch3	2412~2432 MHz	50	53	-
WIFI ch4	2417~2437 MHz	50	51	-
WIFI ch5	2422~2442 MHz	40	47	-
WIFI ch6	2427~2447 MHz	37	44	-
WIFI ch7	2432~2452 MHz	36	40	-
WIFI ch8	2437~2457 MHz	35	37	-
WIFI ch9	2442~2462 MHz	32	30	-
WIFI ch10	2447~2467 MHz	25	27	-
WIFI ch11	2452~2472 MHz	30	15	-
	300~1980 MHz	30	33	-
	2110~2400 MHz	34	39	-
	3400~3800 MHz	27	29	-
	4992~6000 MHz	34	37	-

(1) : The typical value is average value of each frequency band.

Transmission coefficient

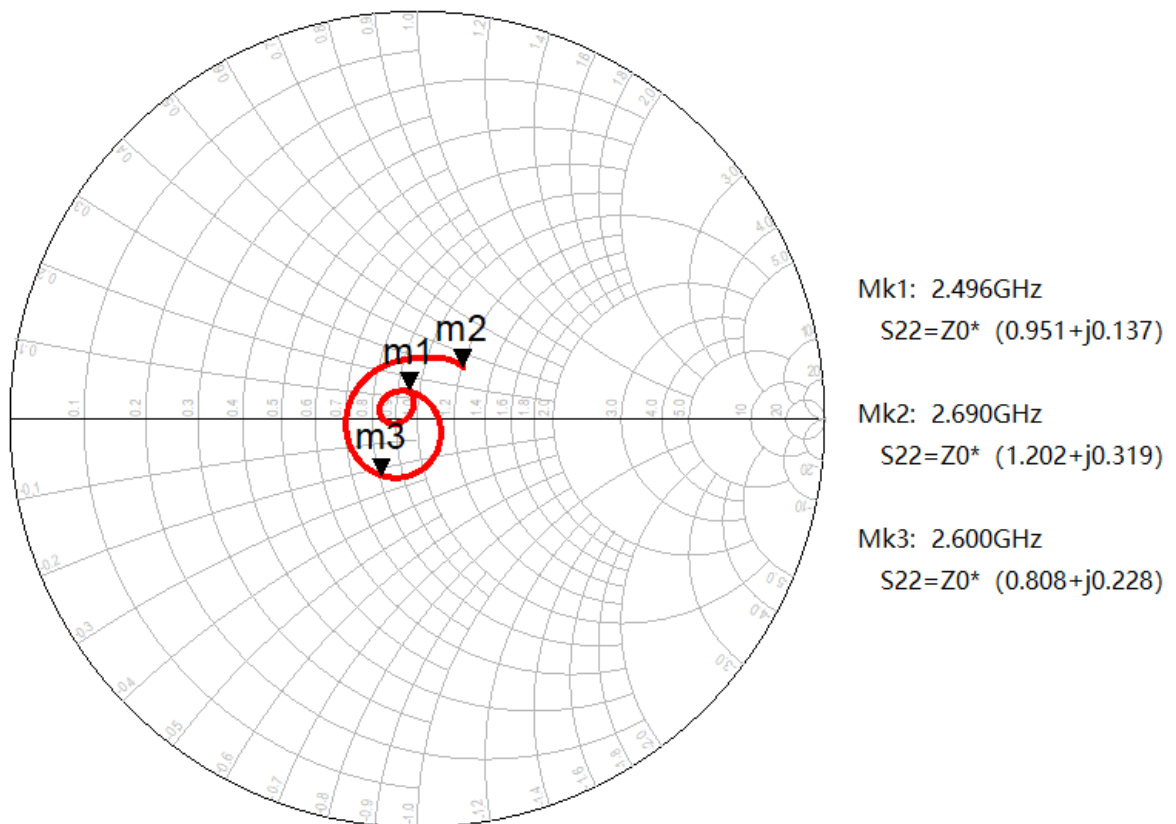
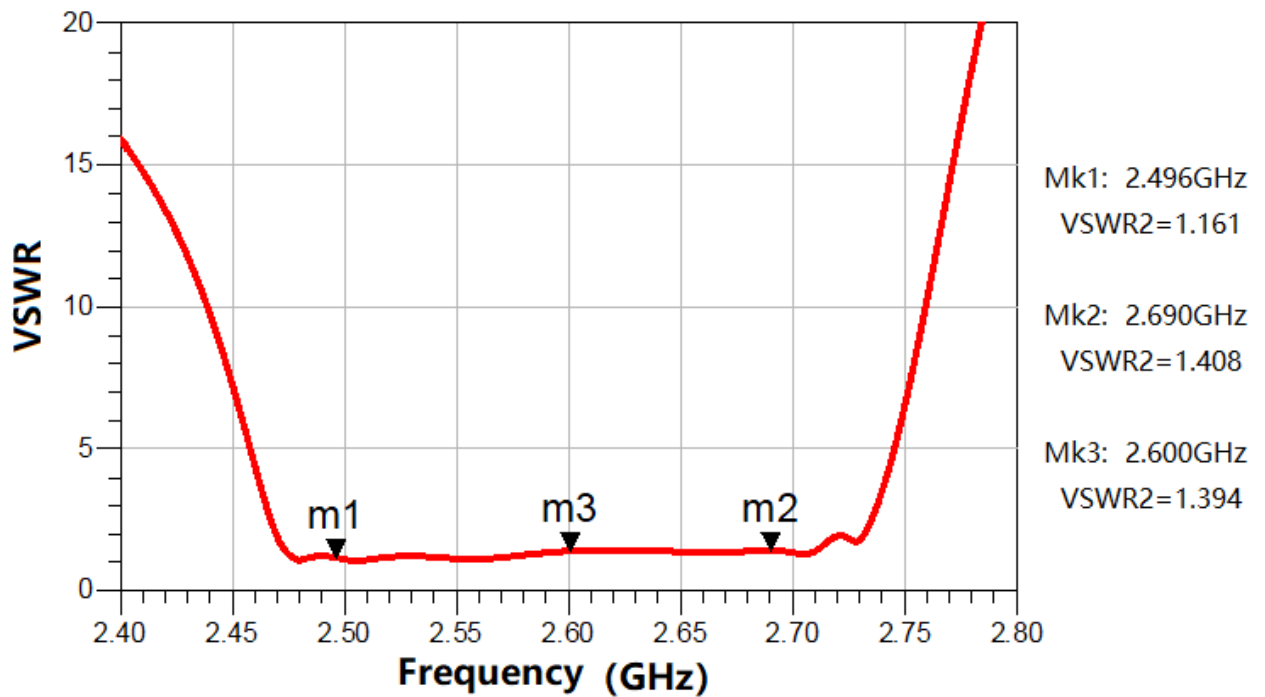


Reflection coefficients Input Port



freq (2.496GHz to 2.690GHz)

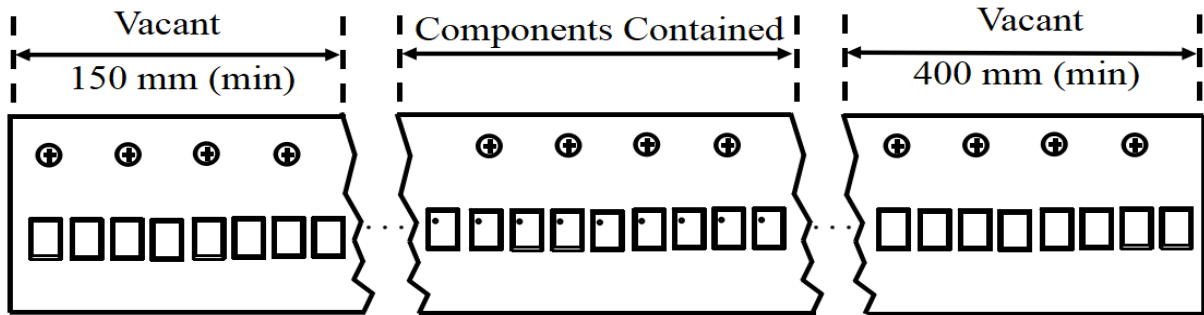
Output Port



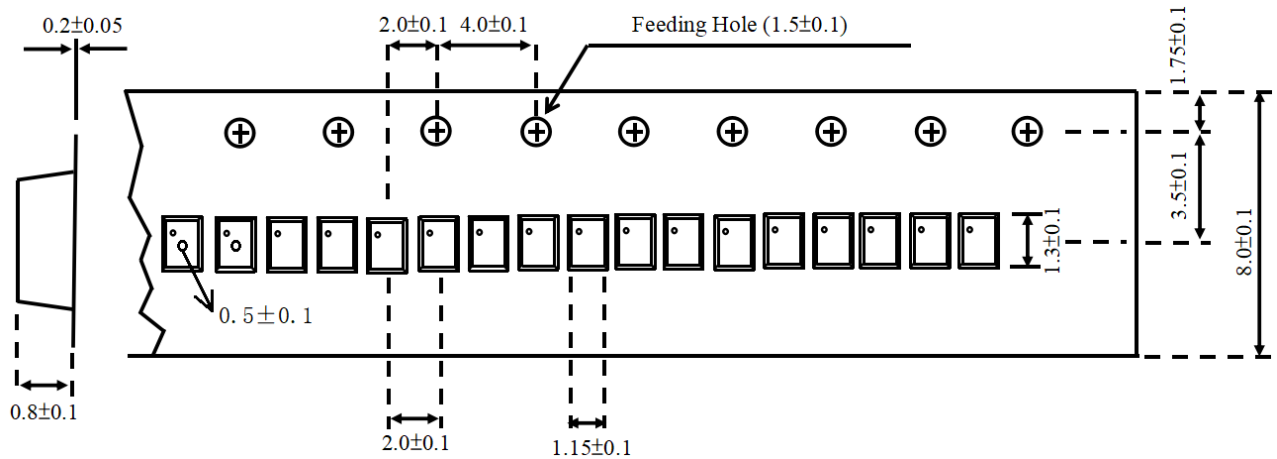
freq (2.496GHz to 2.690GHz)

Packing

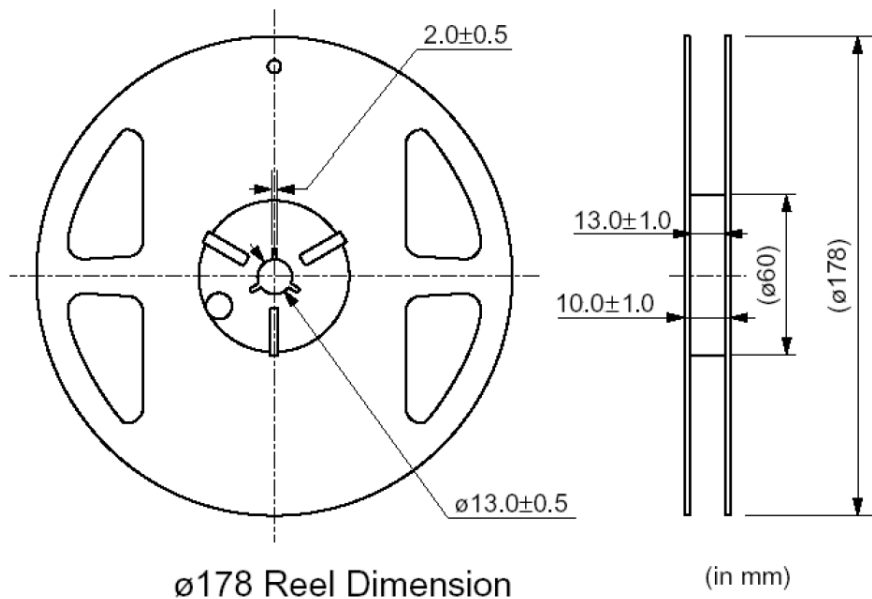
(1).Leader part and vacant position specifications



(2).Tape Specifications



10000 pcs/reel ϕ 178mm



(3).Carton Box

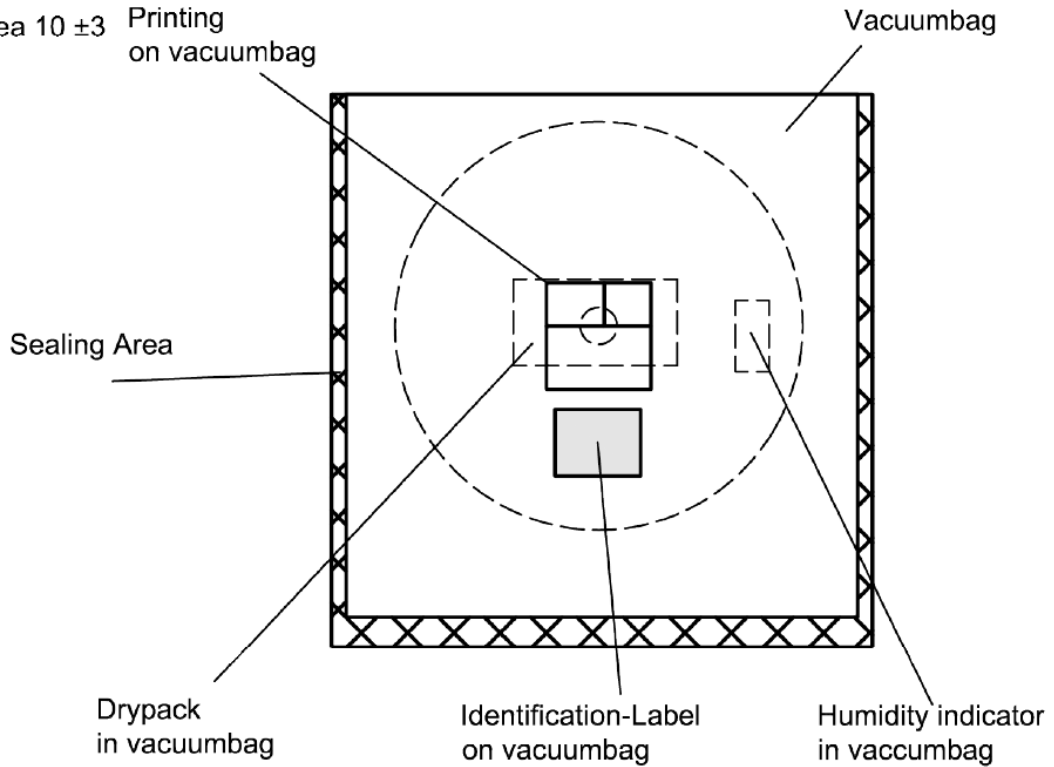
**2.6GHz
Band 41 BAW Filter**

Dimensions [mm]

X = 220±5

Y = 235±5

Sealing area 10 ±3



Drawing of moisture barrier bag (MBB) for reel with diameter of 178 mm

Dimensions [mm]

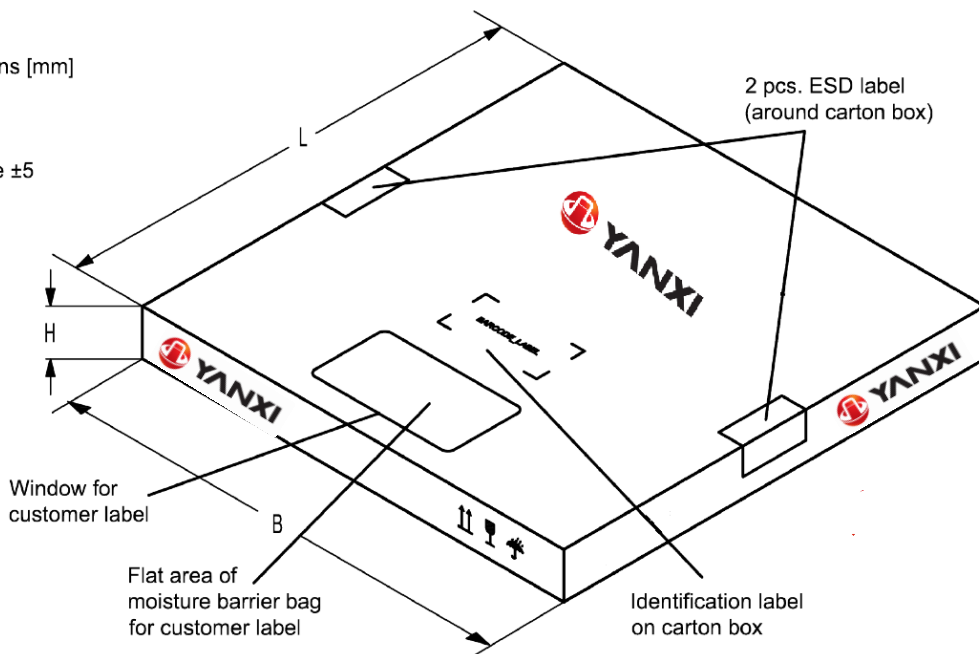
L = 188

B = 188

H = 30

Tolerance ±5

2 pcs. ESD label
(around carton box)



Drawing of folding box for reel with diameter of 178 mm

History Record

Date	Spec.NO.	Part NO.	Modify Content	Remark
2020.05.08			1. Matching circuit 2. Update electrical specifications	Original
2020.02.01			Original	

Contact Information

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