

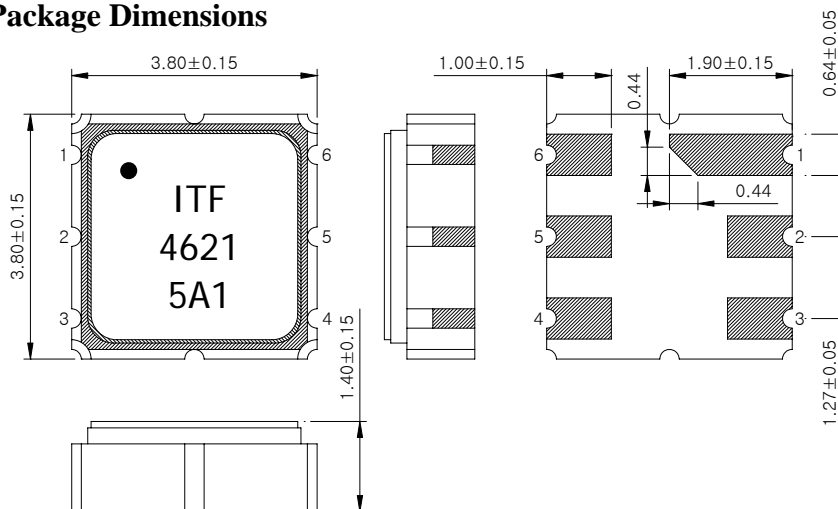
# SAW Bandpass Filter F4621



## Features

- RF bandpass filter for CDMA450 C-Band Rx. Part
- Usable bandwidth 5MHz (460 MHz ~ 465 MHz)
- High attenuation
- No matching 50Ω single-ended operation
- Ceramic Surface Mounted Device Package ( 3.8 mm × 3.8 mm )
- RoHS compliant

## Package Dimensions



Dimensions shown are nominal in millimeters

Body : Al<sub>2</sub>O<sub>3</sub> Ceramic

Lid : Kovar, Ni Plated

Terminations : Au plating 0.3 ~ 1.0 um, Over a 1.27 ~ 8.89 um  
Ni Plating

### Pin Configurations

2	Input
5	Output
1, 3, 4, 6	Case ground

## Maximum Ratings

Parameters	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	25	85
Storage Temperature Range	°C	-40	-	85
Power Handling Capability	dBm	-	-	27

Electrostatics Sensitive Device (ESD)

	<b>ITF Co., Ltd.</b> 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F4621	
		Rev. Date	2006-06-08	
		Rev.	NR3017-AS02	1/7

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## Specifications

	Minimum	Typical	Maximum	Unit
Center Frequency ( Fc )	-	462.5	-	MHz
Insertion Loss (In Fc +/- 2.5 MHz)	-	3.0	3.8	dB
Amplitude Ripple (In Fc +/- 2.5 MHz)	-	1.0	2.2	dB
VSWR (In Fc +/- 2.5 MHz)	-	1.5	2.4	
Relative Attenuation				
0.3 MHz ~ 450.0 MHz	45	52	-	dB
450.0 MHz ~ 455.0 MHz	35	43	-	
482.0 MHz ~ 1200 MHz	40	45	-	
1200 MHz ~ 1700 MHz	35	40	-	
1700 MHz ~ 2000 MHz	20	25	-	
Temperature Range (Operational)	-30	25	85	°C
Input RF Power (In Fc +/- 2.5 MHz)			27	dBm
Input/Output Impedance		50		Ohms

### Notes :

- 1) All specifications are based on the matching schematic shown below, measured by Agilent Network analyzer and full 2 port calibration.
- 2) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
- 3) All attenuation measurements are measured relative to insertion loss

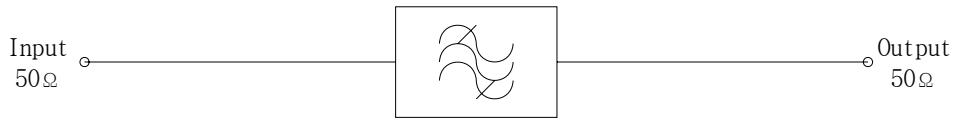
 Integrated Technology Future	<b>ITF Co., Ltd.</b> 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F4621	
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## Matching Schematic

( Actual matching values may vary due to PCB layout and parasitics )



## Marking Configuration

- <sup>1)</sup>  
ITF<sup>2)</sup>  
4621<sup>3)</sup>  
5A1<sup>4)</sup>

- 1) Pad Number 1 Index
- 2) Manufacturer name
- 3) Marking Number
- 4) Lot Number

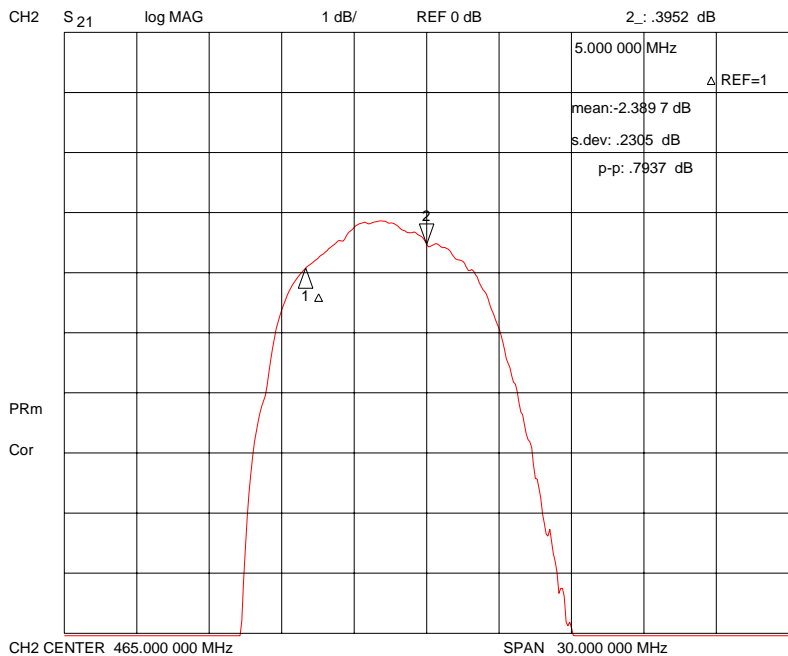
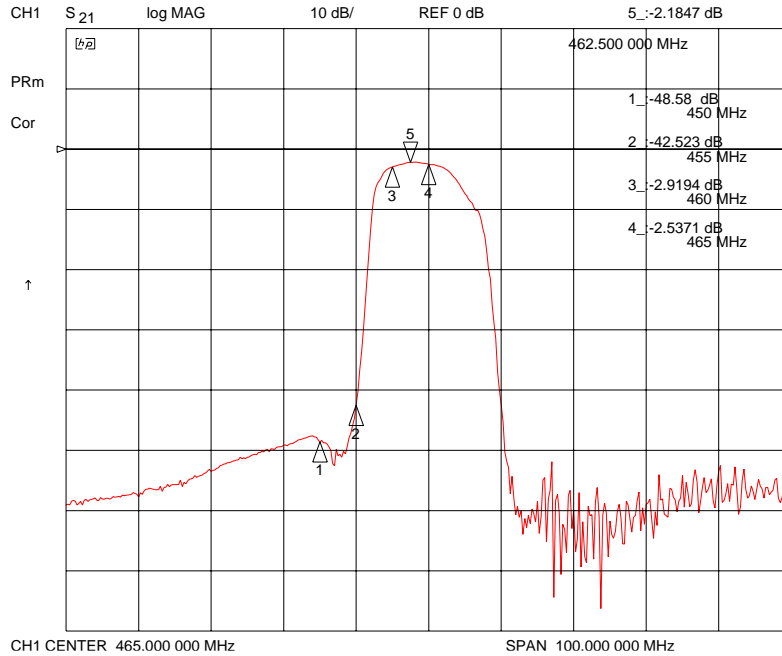
\* Ink or Laser Marking available

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## Typical Performance ( at 25 °C )



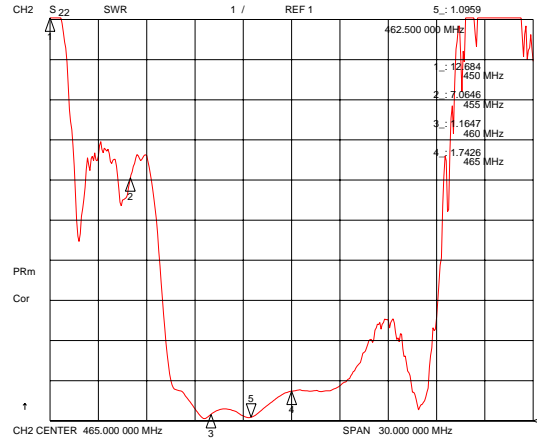
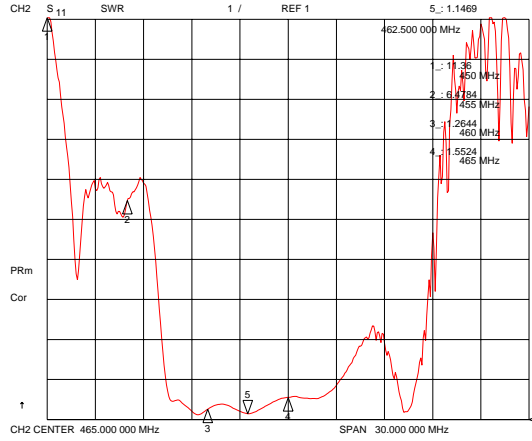
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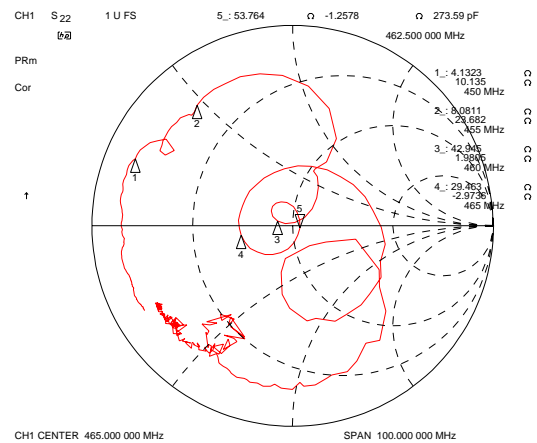
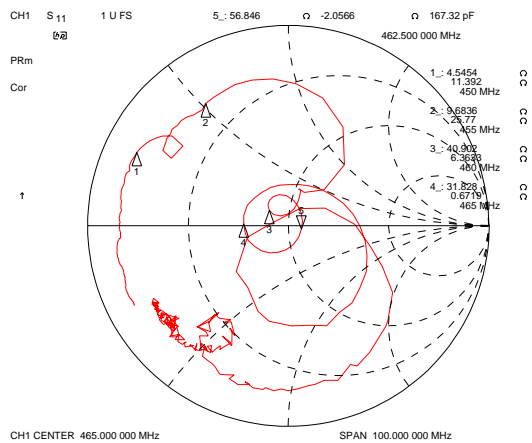
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## Input / Output VSWR Charts



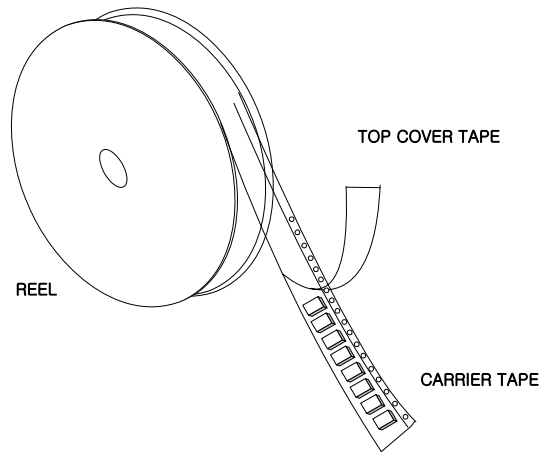
## Input / Output Smith Charts



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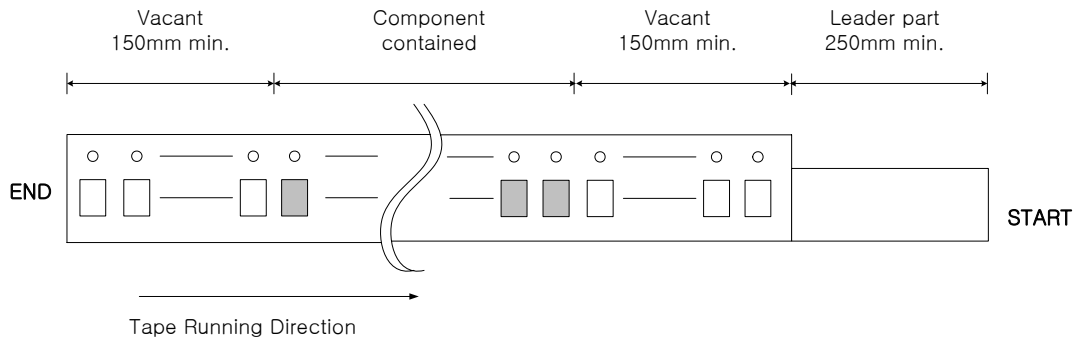
## Packing Specification

1. Reeling Quantity : 3000 pcs / 13" reel ( or 1000 pcs / 7" reel )
2. Taping Structure : The tape shall be wound around the reel in the direction shown below.



## Tape Specification

1. Leader part and vacant position specification

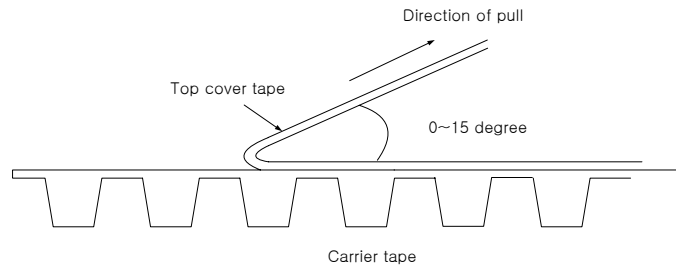


2. Tensile strength of carrier tape

4.4N/mm width

3. Top cover tape adhesion

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

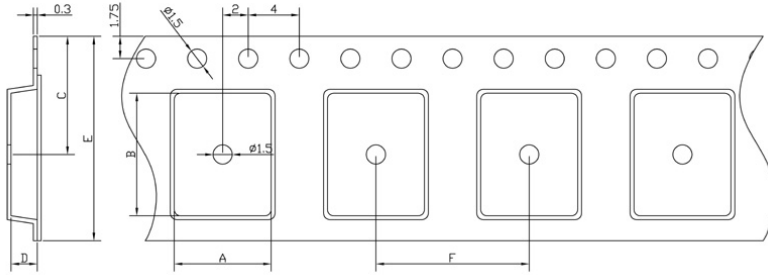


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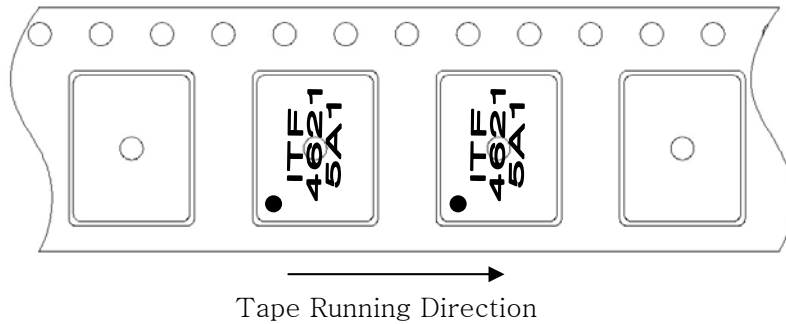


## Carrier Tape Dimensions [unit : mm]

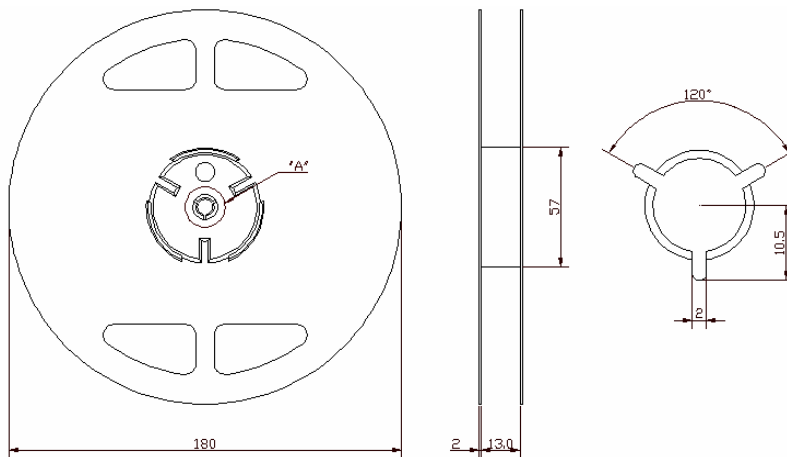


A	4.30 ± 0.1
B	4.30 ± 0.1
C	7.25 ± 0.1
D	1.70 ± 0.1
E	12.00 ± 0.1
F	8.00 ± 0.1

## Part Direction



## Reel Dimensions [unit : mm]



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