

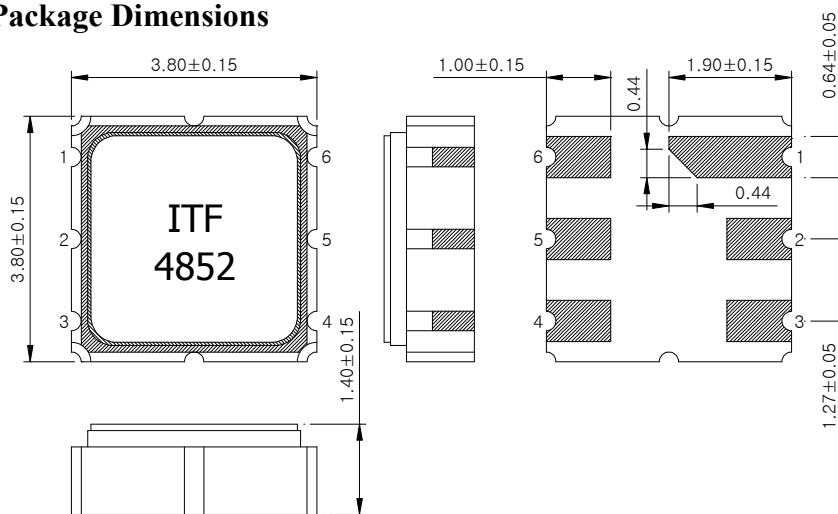
# SAW Bandpass Filter F4852



## Features

- RF bandpass filter
- Usable bandwidth 2MHz (484 MHz ~ 486 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	-	-	10

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.	F4852	
		Rev. Date	2010-10-13	
		Rev.	NSLJ02-AS01	1/7

# SAW Bandpass Filter F4852




## Specifications

	Minimum	Typical	Maximum	Unit
Center Frequency ( Fc )	-	485.0	-	MHz
Insertion Loss (In Fc +/- 1.0 MHz)	-	2.5	3.5	dB
Amplitude Ripple (In Fc +/- 1.0 MHz)	-	0.5	1.0	dB
VSWR (In Fc +/- 1.0 MHz)	-	1.8	2.3	
Relative Attenuation				
0.3 MHz ~ 465 MHz	40	50	-	dB
465 MHz ~ 470 MHz	30	45	-	
500 MHz ~ 535 MHz	30	45	-	
Temperature Range (Operational)	-30	25	85	°C
Input RF Power			10	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

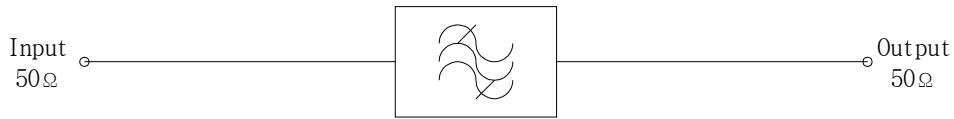
 Integrated Technology Future	<b>ITF Co., Ltd.</b> 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F4852	
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## Matching Schematic

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




## Marking Configuration

ITF <sup>1)</sup>  
4852 <sup>2)</sup>

1) Manufacturer name

2) Marking Number

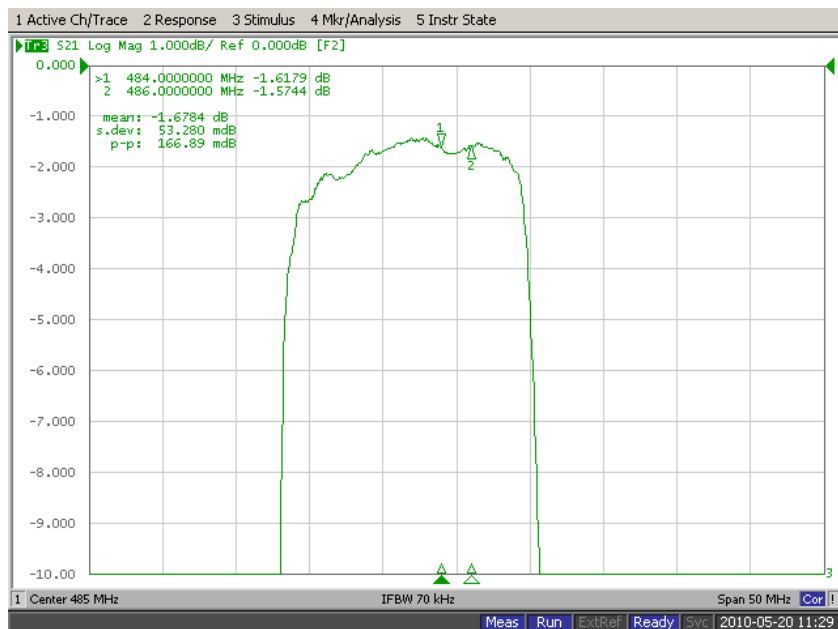
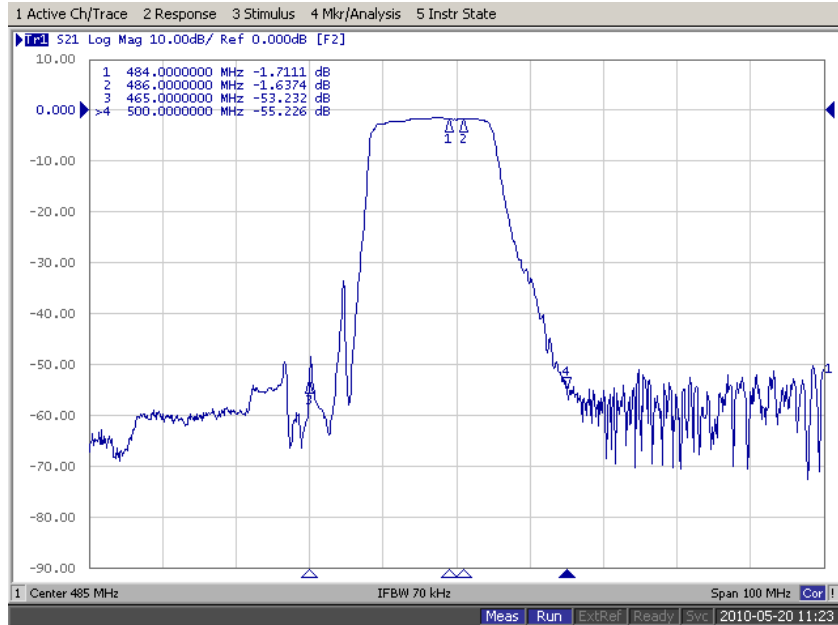
\* Ink or Laser Marking available

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## Typical Performance ( at 25°C )



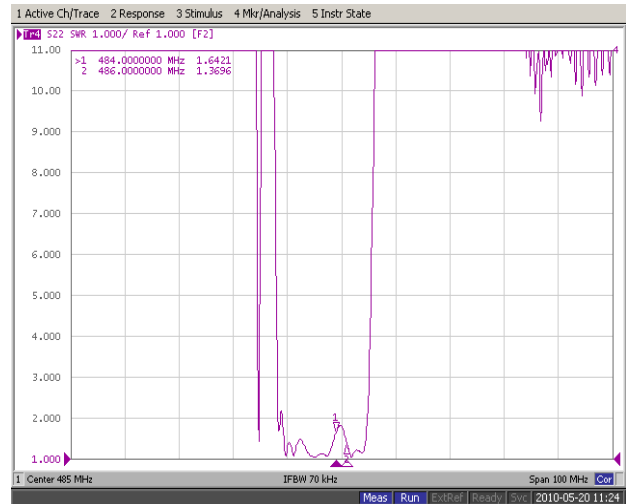
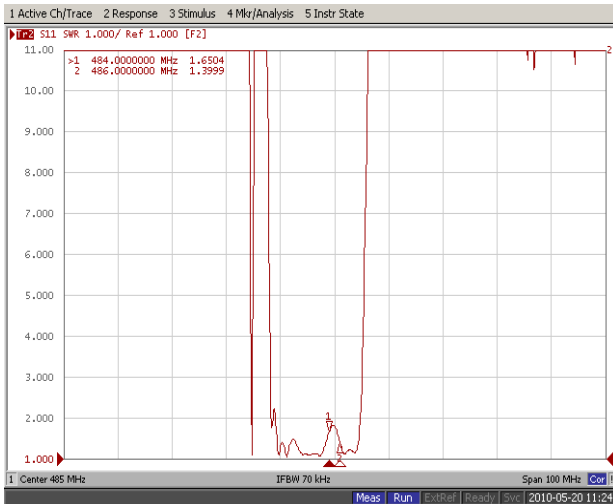
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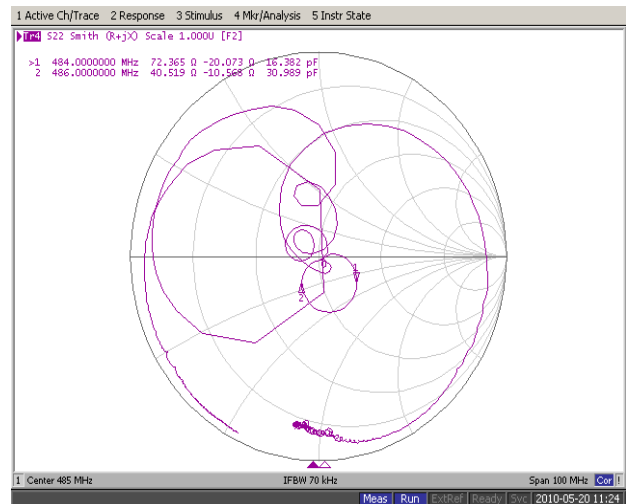
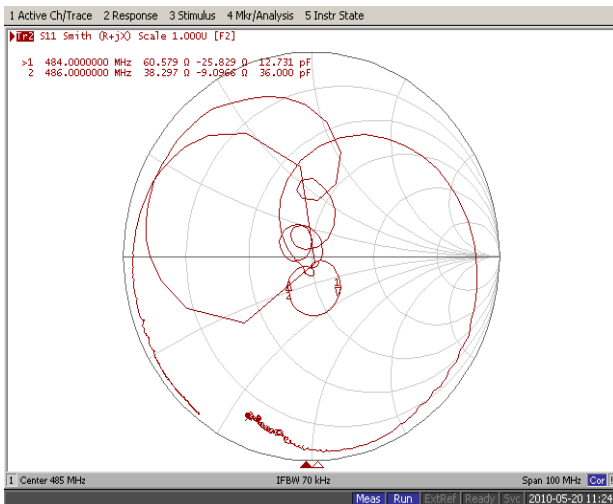
# SAW Bandpass Filter F4852



## Input / Output VSWR Charts



## Input / Output Smith Charts

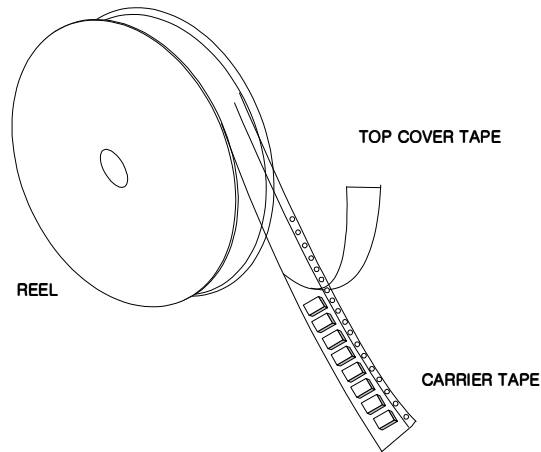


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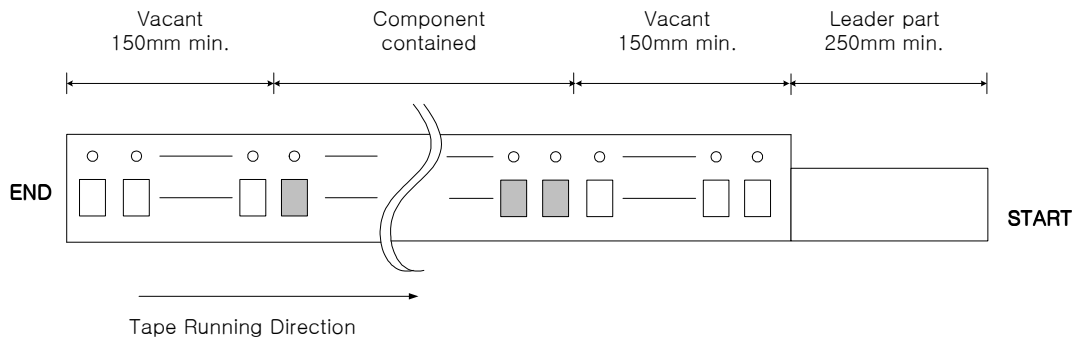
## Packing Specification

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

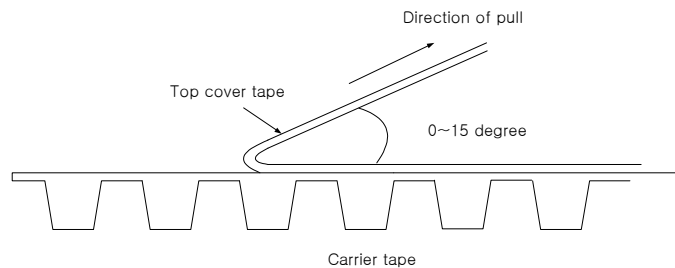


2. Tensile strength of carrier tape

4.4N/mm width

3. Top cover tape adhesion

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

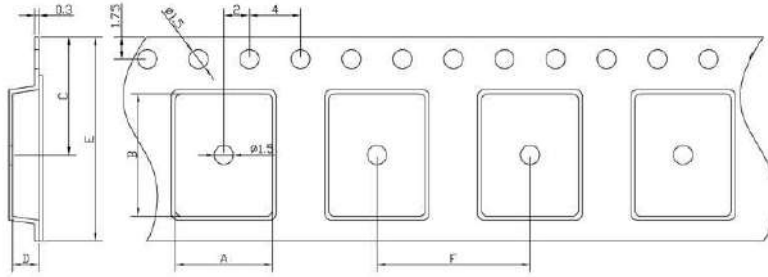


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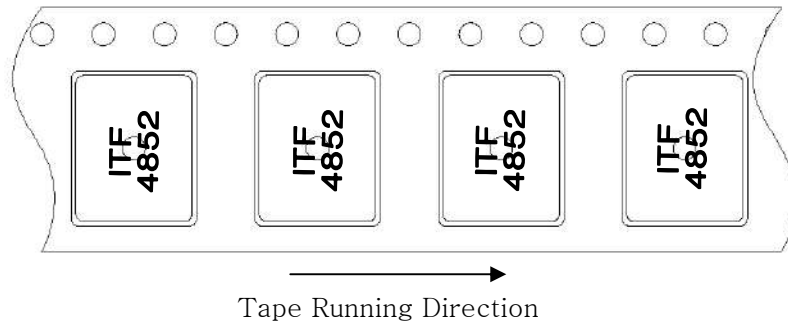


## Carrier Tape Dimensions [unit : mm]

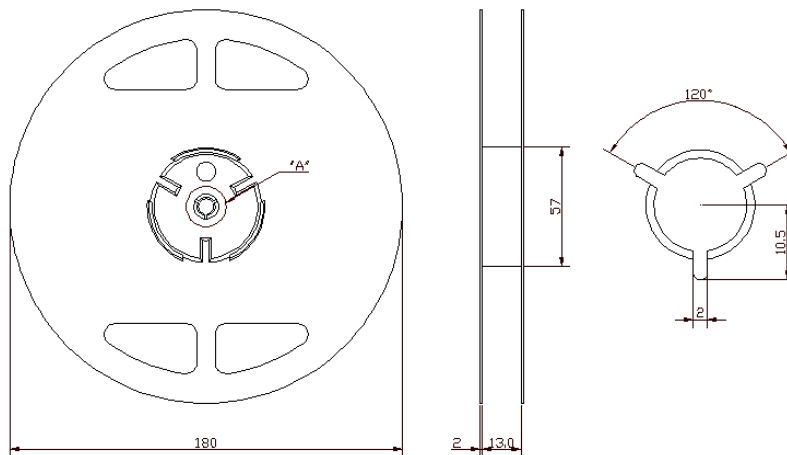


A	4.30 ± 0.1
B	4.30 ± 0.1
C	7.25 ± 0.1
D	1.70 ± 0.1
E	12.00 ± 0.1
F	8.00 ± 0.1

## Part Direction



## Reel Dimensions [unit : mm]



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