

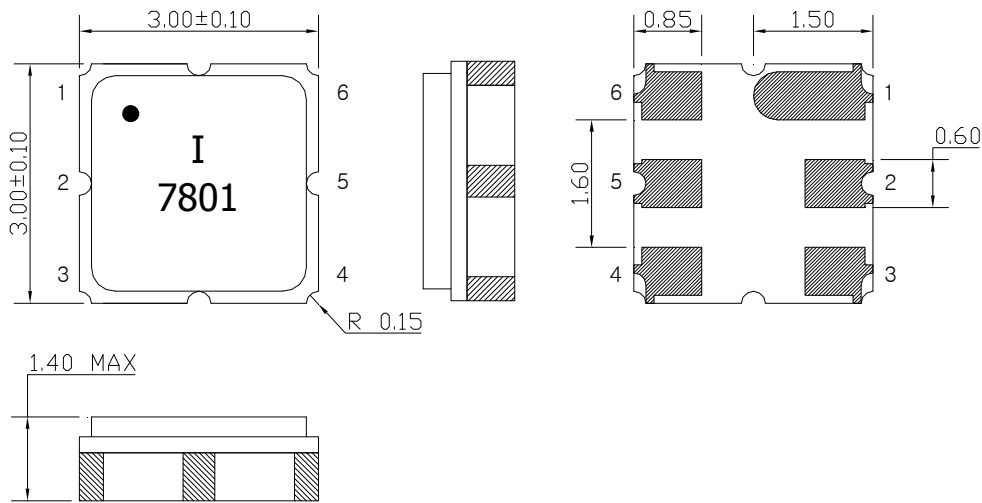
# SAW Bandpass Filter F7801



## Features

- RF Bandpass Filter
- No impedance matching require for operation at 50 Ω
- Ceramic Surface Mounted Device Package ( 3.0 mm \* 3.0 mm )
- Single-ended Operation
- 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 μm, Over a 1.27 ~ 8.89 μm  
Ni Plating

### Pin Configurations

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

## Maximum Ratings

Parameters	Unit	Minimum	Typical	Maximum
Operating Temperature Range	℃	-30	25	85
Storage Temperature Range	℃	-40	25	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.	F7801	
		Rev. Date	2015-12-1	
		Rev.	AS01	1/7

# SAW Bandpass Filter F7801




## Specifications

Fc = 780.5 MHz

	Minimum	Typical	Maximum	Unit
Center Frequency ( Fc )	-	780.5	-	MHz
Insertion Loss ( 758 ~ 803 MHz )	-	4.0	4.5	dB
Amplitude Ripple ( 758 ~ 803 MHz )	-	1.3	2.0	dB p-p
VSWR ( 758 ~ 803 MHz )	-	1.7	2.5	
Attenuation				
0.3 ~ 670 MHz	24	28	-	dB
670 ~ 690 MHz	28	34	-	
703 ~ 748 MHz	2	5	-	
835 ~ 900 MHz	5	22	-	
900 ~ 1500 MHz	24	28	-	
1500 ~ 3000 MHz	17	32	-	
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

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# SAW Bandpass Filter F7801



## Matching Schematic

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



## Marking Configuration


●<sup>1)</sup>  
I<sup>2)</sup>  
7801<sup>3)</sup>

1) Pad Number 1 Index

2) Manufacturer name

3) Marking Number

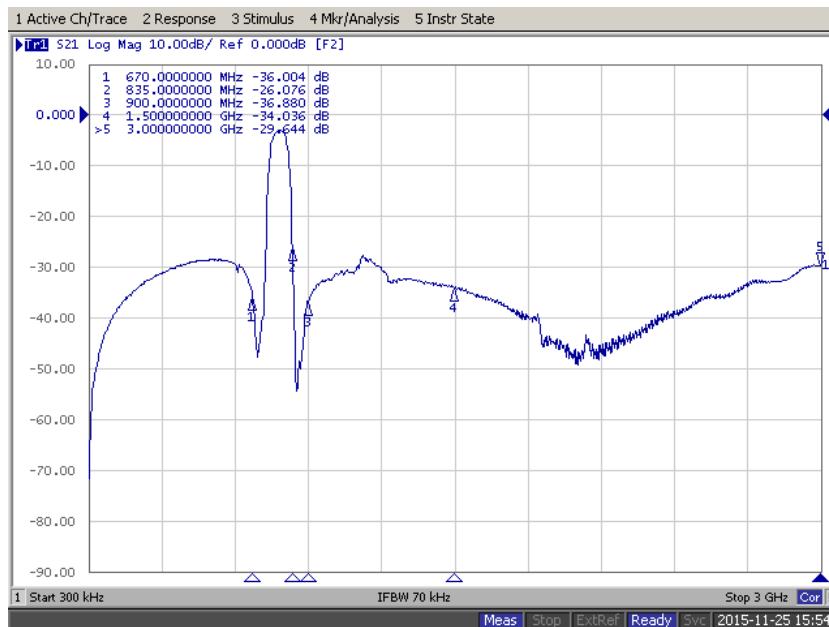
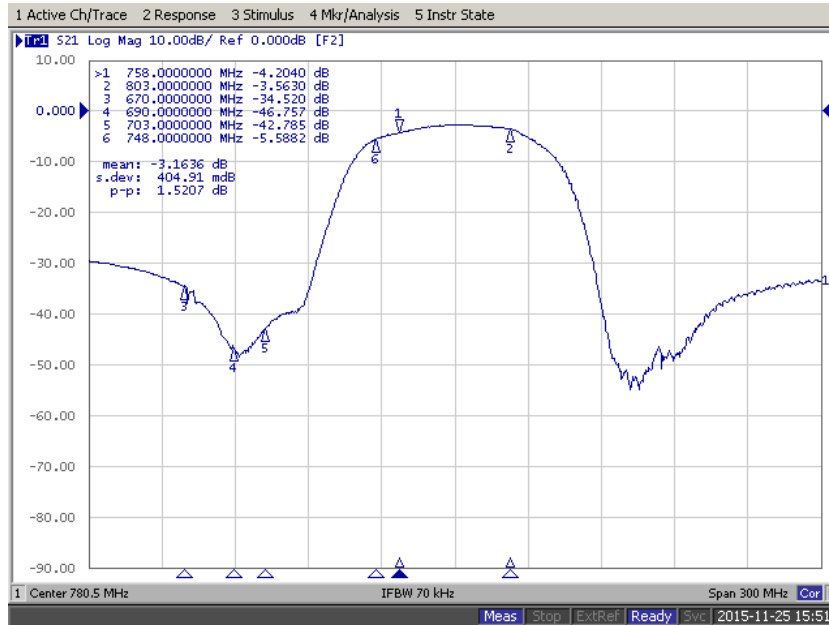
\* Ink or Laser Marking available

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## Typical Performance ( at 25°C )



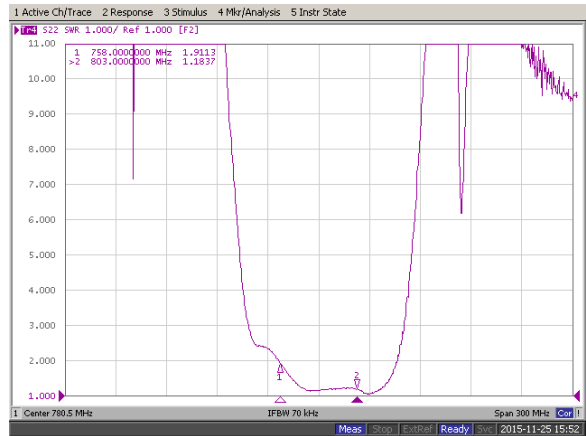
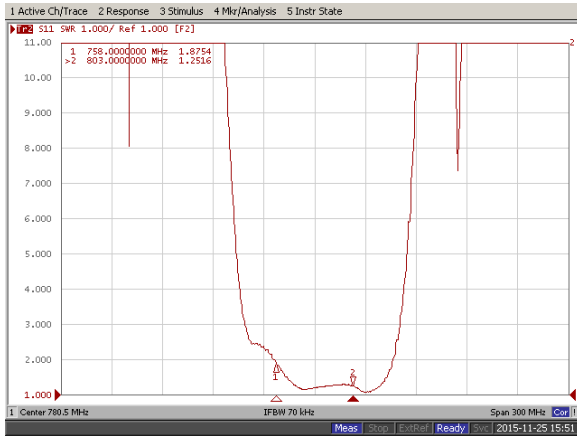
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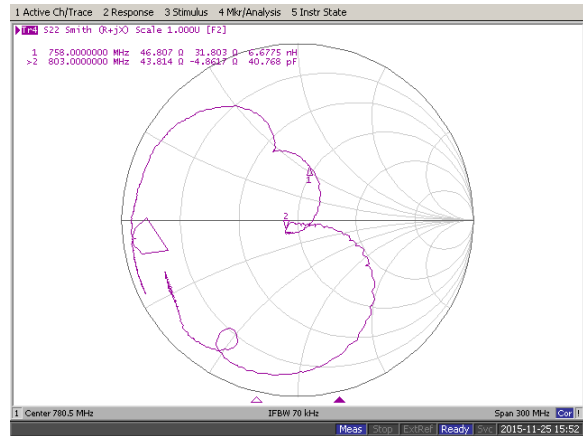
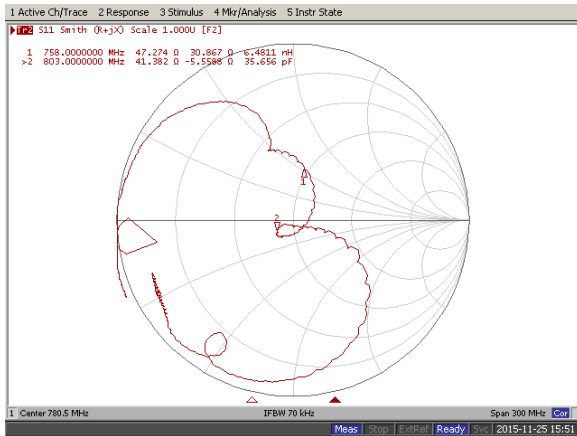
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## Input / Output VSWR



## Input / Output Smith Charts

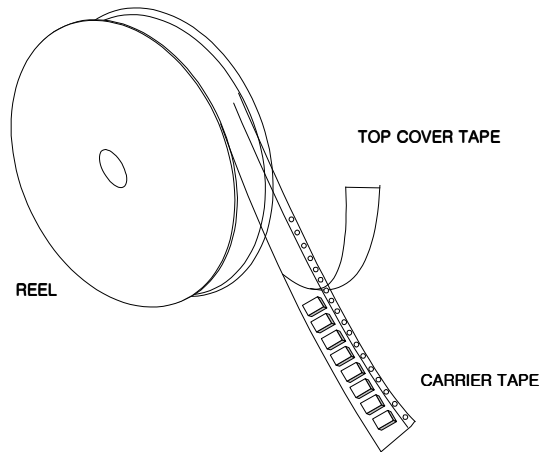


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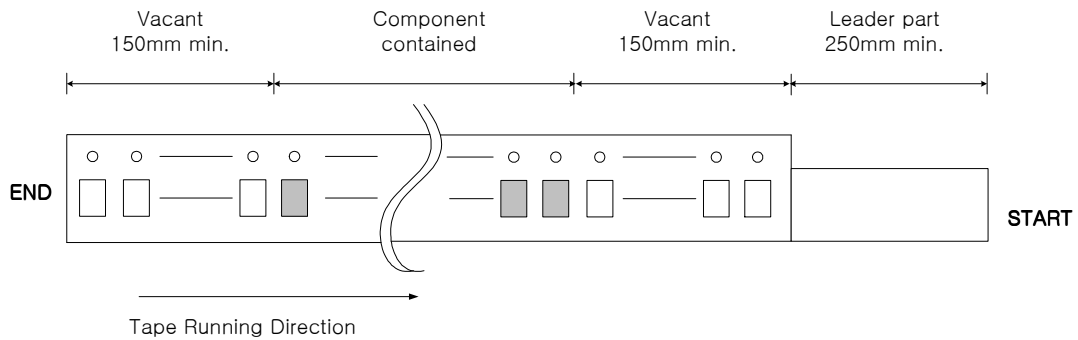
## Packing Specifications

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

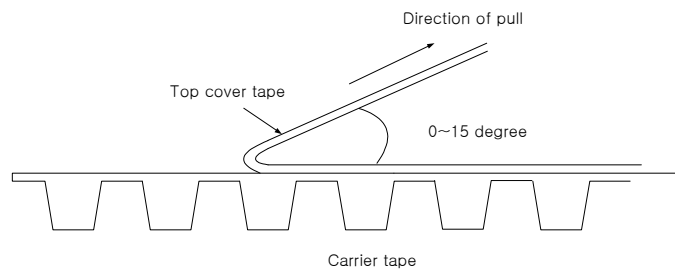


2. Tensile strength of carrier tape

4.4N/mm width

3. Top cover tape adhesion

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

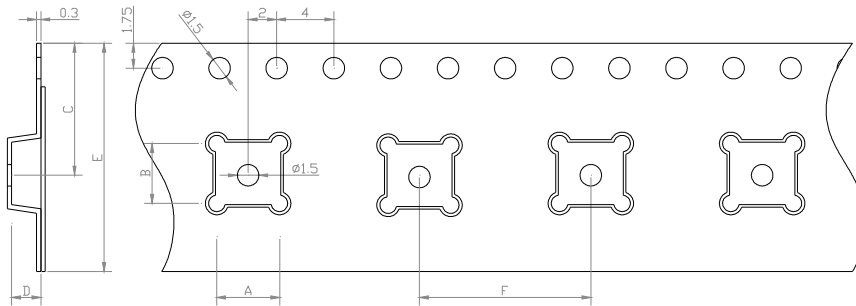


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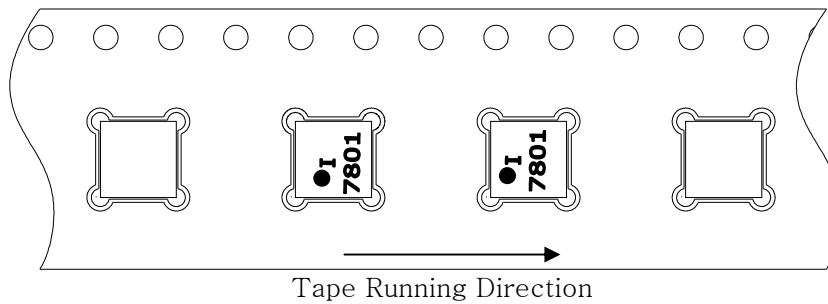


## Carrier Tape Dimensions [unit : mm]

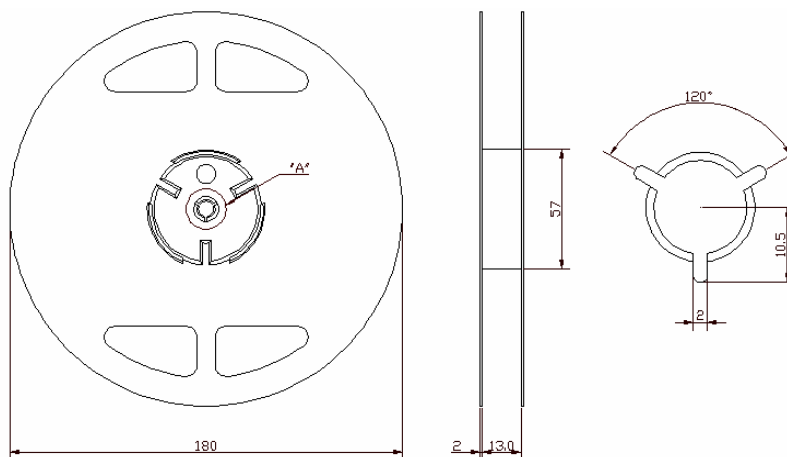



A	3.40 ± 0.1
B	3.40 ± 0.1
C	7.25 ± 0.1
D	1.70 ± 0.1
E	12.00 ± 0.1
F	8.00 ± 0.1

## Part Direction



## Reel Dimensions [unit : mm]



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