

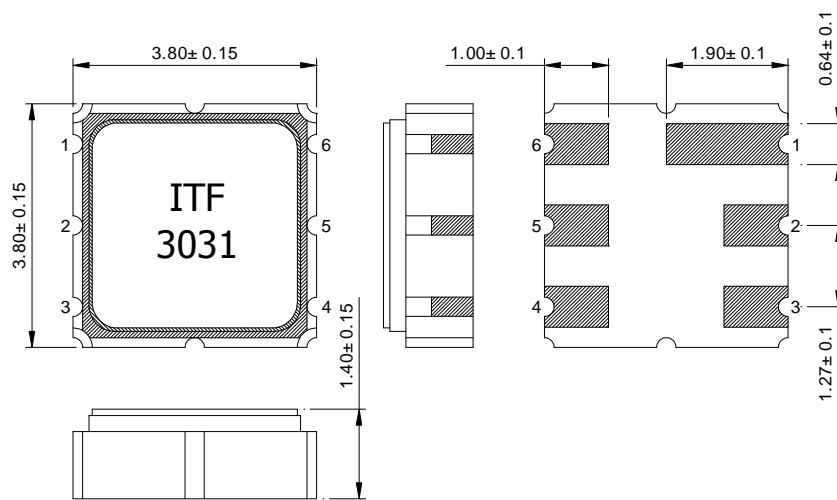
# SAW Bandpass Filter F3031



## Features

- RF bandpass filter
- High attenuation
- No matching 50Ω single-ended operation
- Ceramic Surface Mounted Device (SMD) Package
- 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 Configuration	
2	Input
5	Output
1, 3, 4, 6	Case ground

## Maximum Ratings

Parameter	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-45	25	85
Storage Temperature Range	°C	-45	25	85
Power Handling Capability	dBm	-	-	0

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.	F3031	
		Rev. Date	2012-08-13	
		Rev.	NSNF01-AS01	1/7

# SAW Bandpass Filter F3031




## Specifications

$F_c = 303.0\text{MHz}$

		Minimum	Typical	Maximum
Center Frequency ( $F_c$ )	MHz	-	303.0	-
Insertion Loss ( $F_c \pm 2.0$ MHz)	dB	-	2.0	3.0
Amplitude Ripple ( $F_c \pm 2.0$ MHz)	dB	-	1.0	1.5
VSWR ( $F_c \pm 2.0$ MHz)		-	1.5	2.0
Relative Attenuation 0.3 MHz ~ $F_c - 15$ MHz $F_c + 25$ MHz ~ 800 MHz	dB	40 40	50 45	- -
Input/Output Impedance	Ohms	-	50	-

### 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

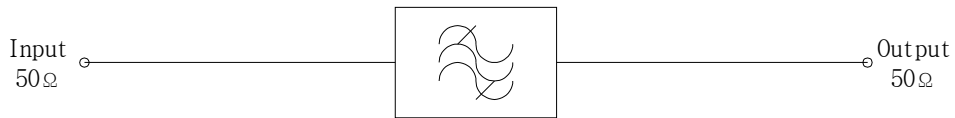
 Integrated Technology Future	<b>ITF Co., Ltd.</b> 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F3031	
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## Matching Schematic


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



## Marking Configuration

ITF<sup>1)</sup>  
3031<sup>2)</sup>

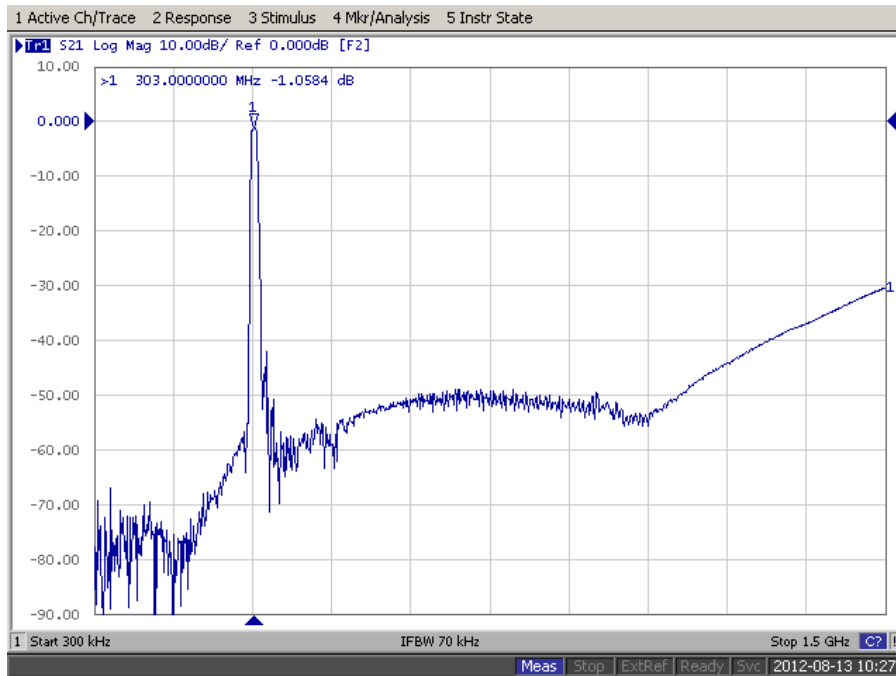
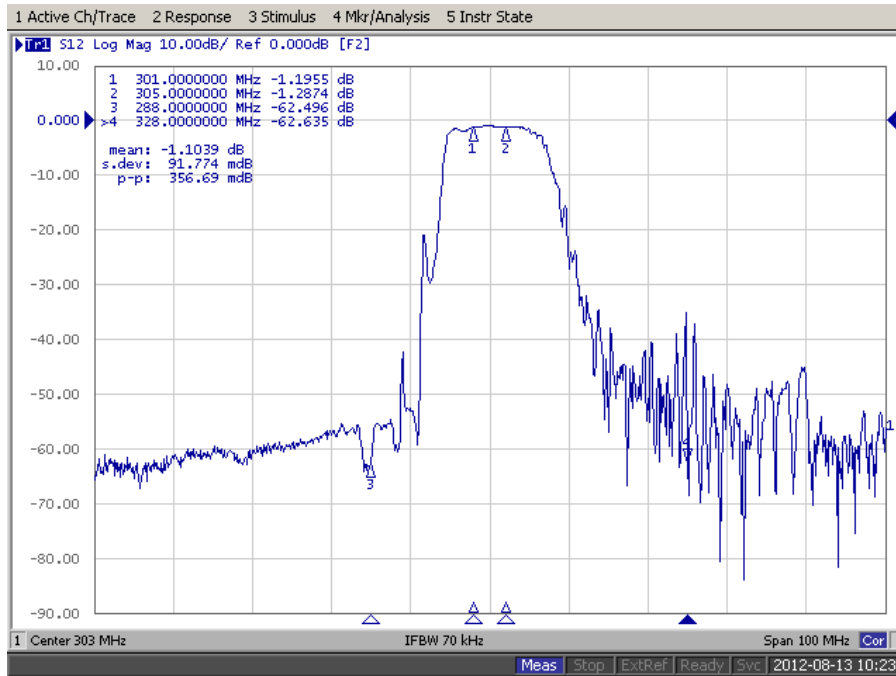
- 1) Manufacturer name
- 2) Marking Number

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## Typical Performance ( at 25°C )



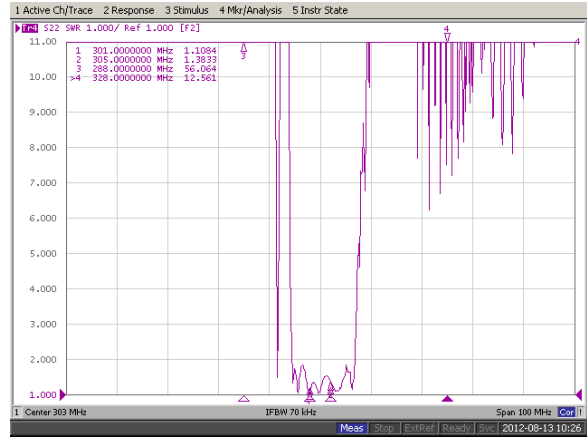
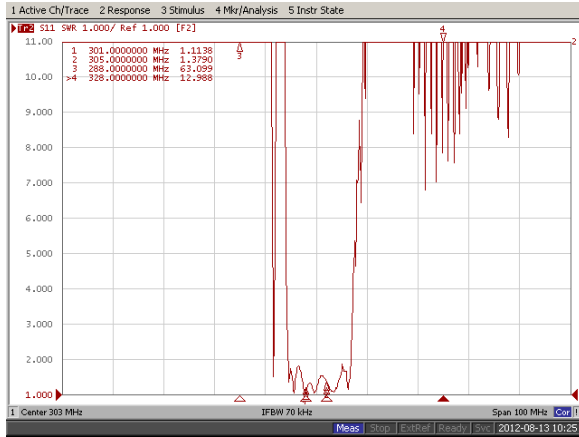
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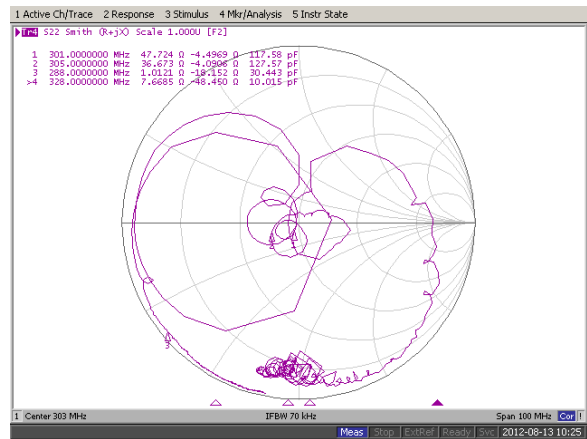
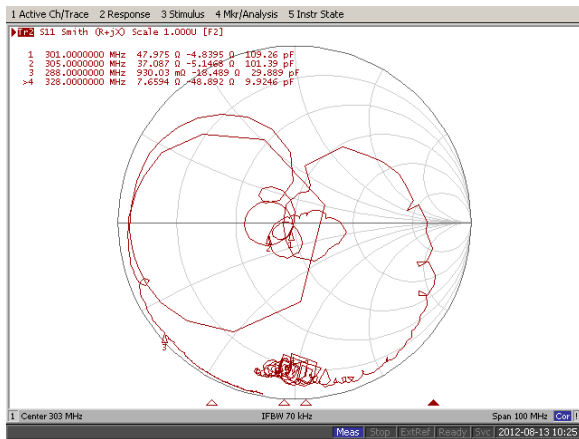
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## Input / Output VSWR Charts



## Input / Output Smith Charts



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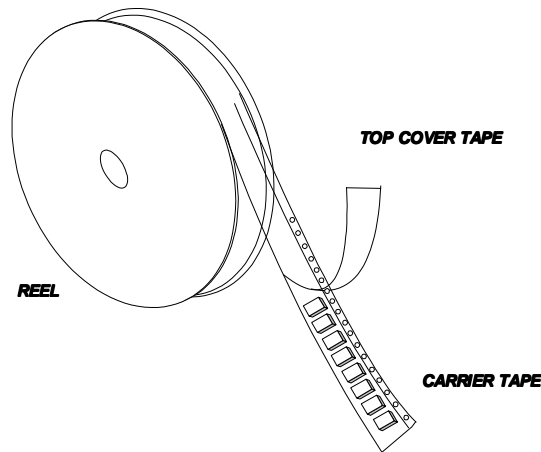
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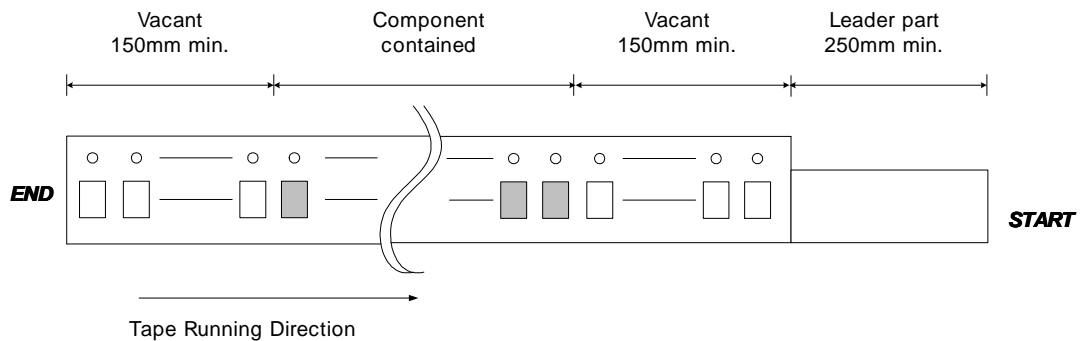
## Packing Specification

1. Reeling Quantity : 1000 pcs / 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

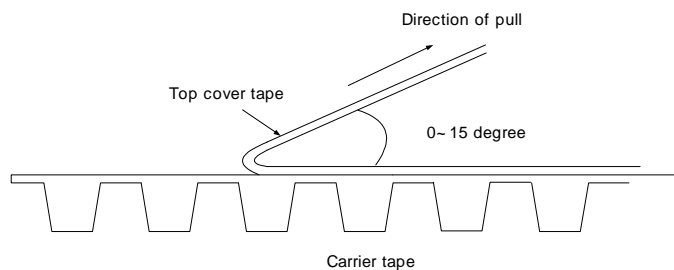


2. Tensile strength of carrier tape

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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