

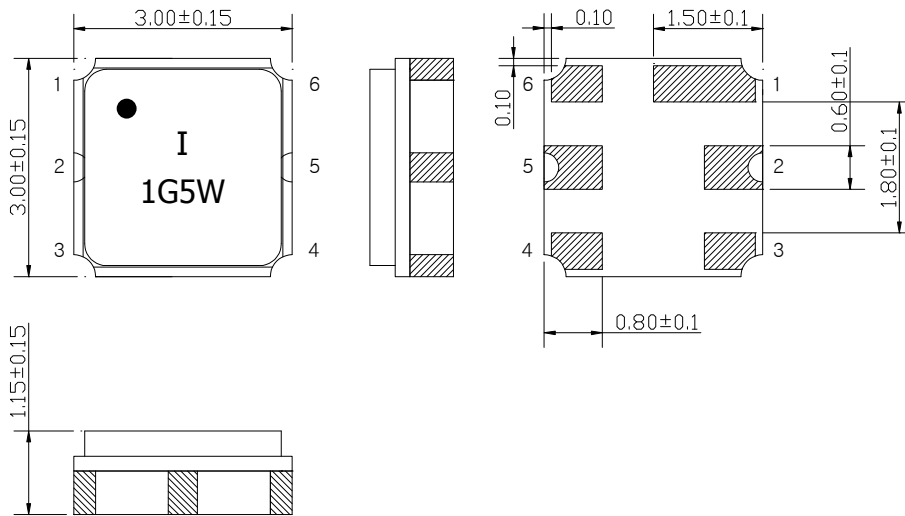
# SAW Bandpass Filter F1G5W



## Features

- RF bandpass filter
- Usable bandwidth 35 MHz
- Ceramic Surface Mounted Device (SMD) Package (3.0mm × 3.0mm)
- 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	Ground

## Maximum Ratings

Parameter	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-20	25	70
Storage Temperature Range	°C	-20	25	70
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.	F1G5W	
		Rev. Date	2018-06-21	
		Rev.	NRSE01-AS02	1/7

# SAW Bandpass Filter F1G5W




## Specifications

$F_c = 1542.5 \text{ MHz}$

		Minimum	Typical	Maximum
Center frequency ( $F_c$ )	MHz	-	1542.5	-
Insertion Loss ( $F_c \pm 17.5 \text{ MHz}$ )	dB	-	3.0	4.2
Amplitude Ripple ( $F_c \pm 17.5 \text{ MHz}$ )	dB	-	0.7	2.0
VSWR ( $F_c \pm 17.5 \text{ MHz}$ )		-	1.5	2.1
Absolute Attenuation				
D.C. ~ 1480.0 MHz	dB	21	44	-
1630.0 ~ 1660.0 MHz		26	45	-
1660.0 ~ 2050.0 MHz		30	43	-
2050.0 ~ 3500.0 MHz		25	44	-
Input/Output impedance	Ohm	-	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

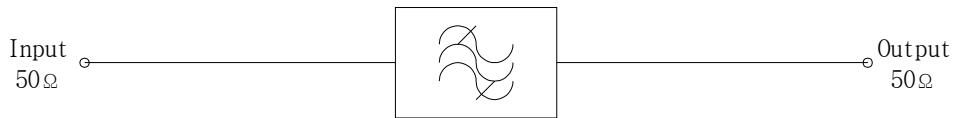
 Integrated Technology Future	<b>ITF Co., Ltd.</b> 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F1G5W	
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# SAW Bandpass Filter F1G5W



## Matching Schematic

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



## Marking Configuration

●<sup>1)</sup>  
I<sup>2)</sup>  
1G5W<sup>3)</sup>

1) Pad Number 1 Index

2) Manufacturer name

3) Marking Number

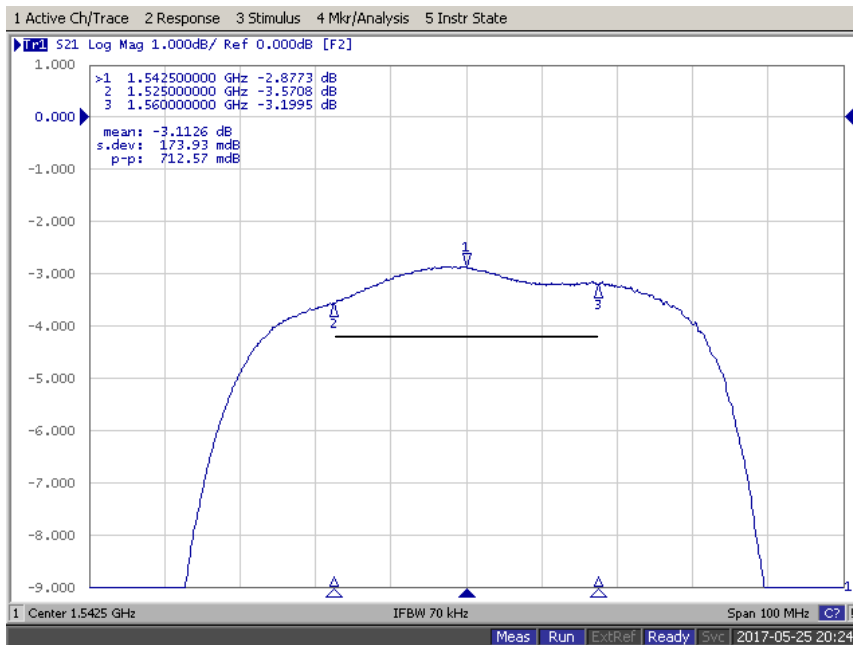
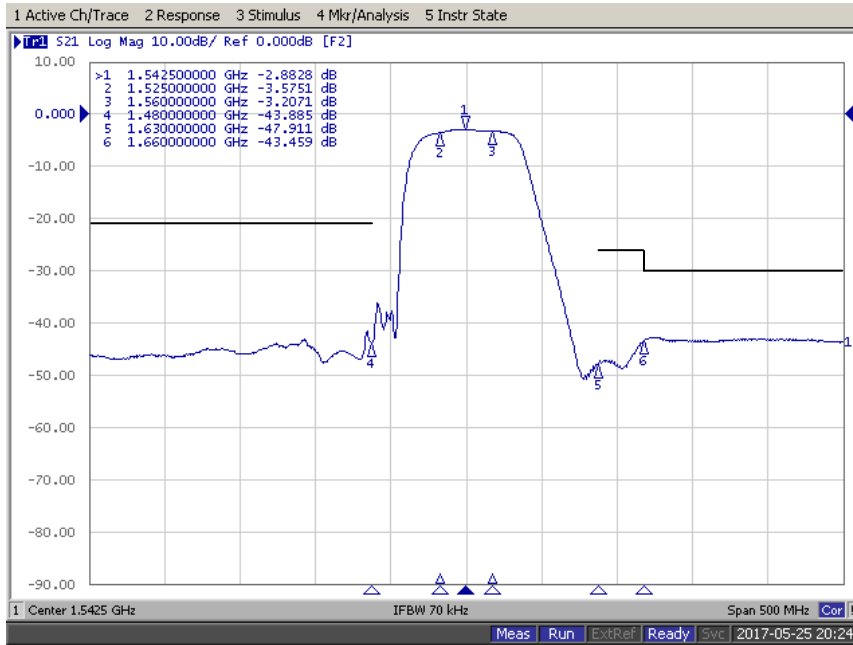
\* Ink or Laser Marking available

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# SAW Bandpass Filter F1G5W



## Typical Performance ( at 25°C )

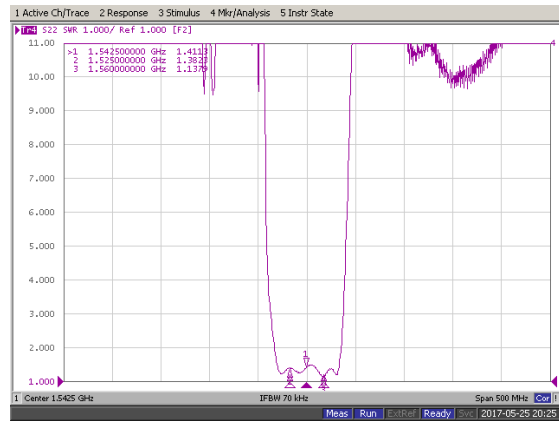
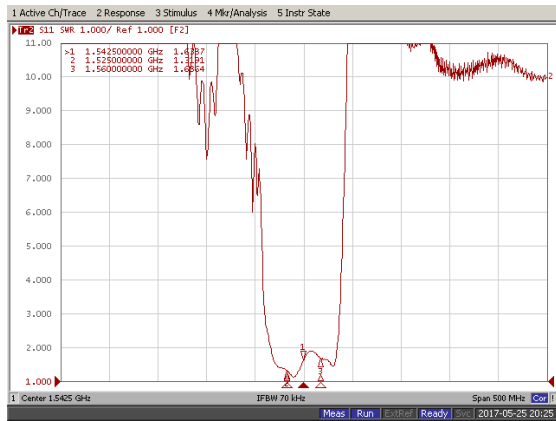


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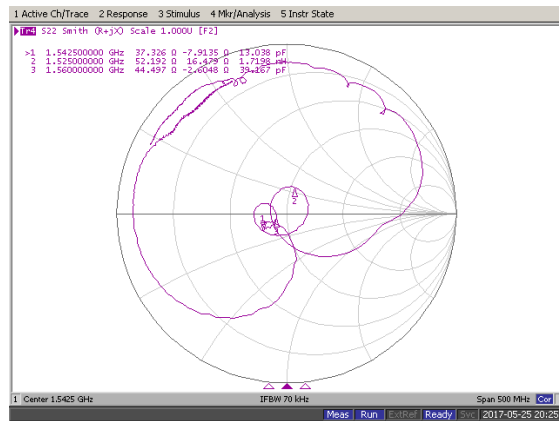
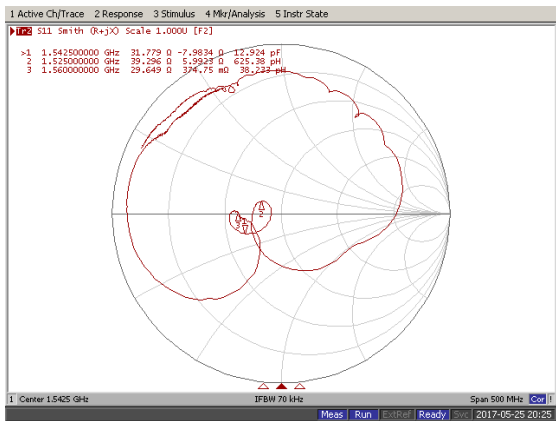
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## Input / Output VSWR Charts



## Input / Output Smith Charts



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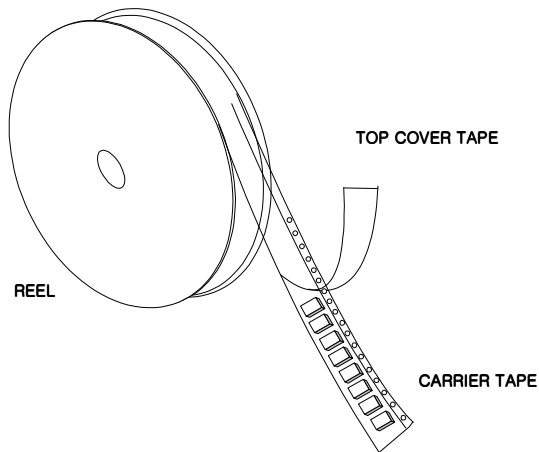
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# SAW Bandpass Filter F1G5W



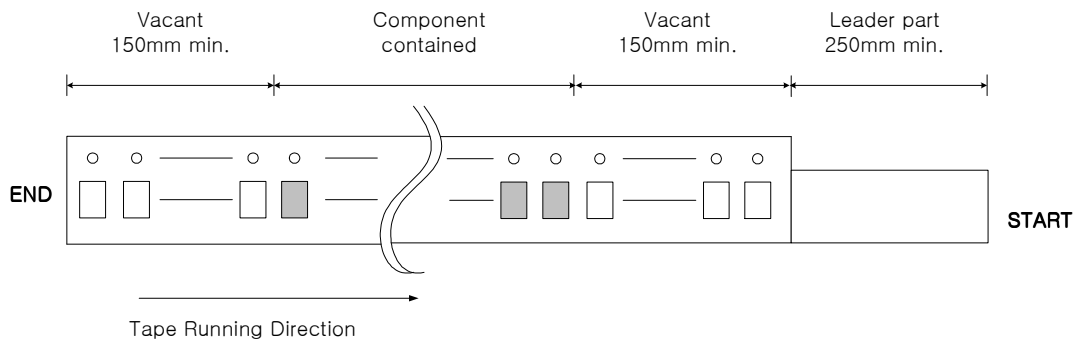
## Packing Specification

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

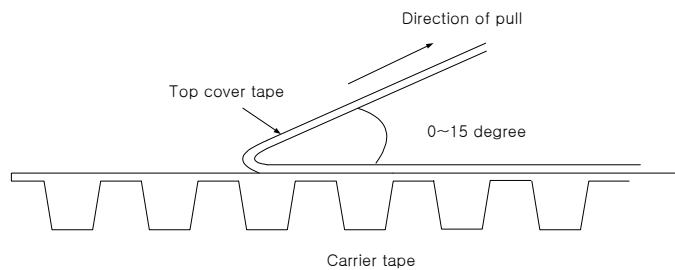



2. Tensile strength of carrier tape

4.4N/mm width

3. Top cover tape adhesion

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

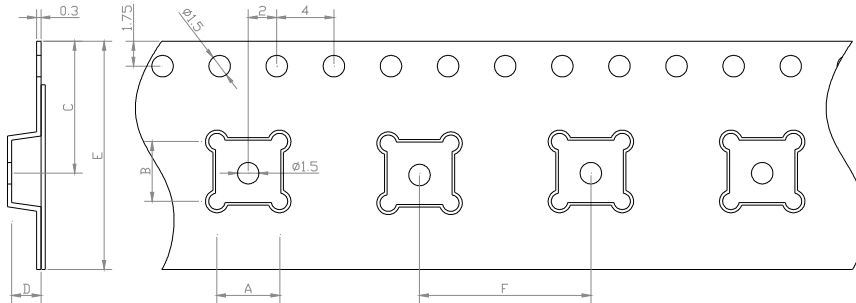


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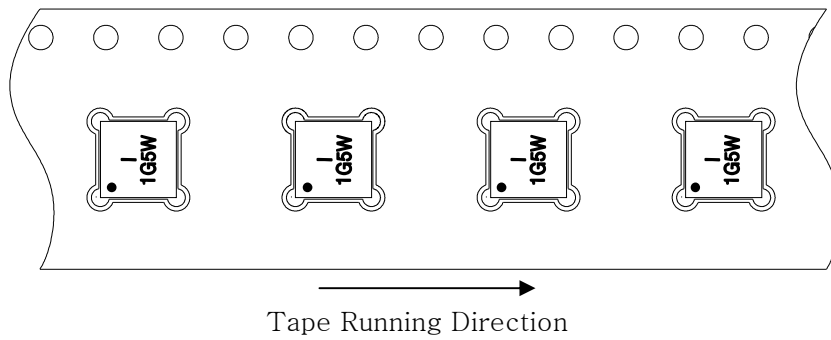


## Carrier Tape Dimensions [unit : mm]

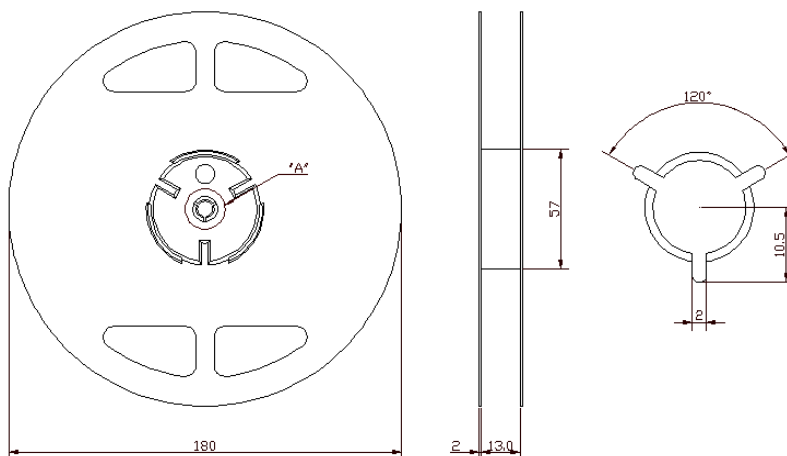


A	3.40 ± 0.1
B	3.40 ± 0.1
C	7.25 ± 0.1
D	1.70 ± 0.1
E	12.00 ± 0.1
F	8.00 ± 0.1

## Part Direction



## Reel Dimensions [unit : mm]



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