

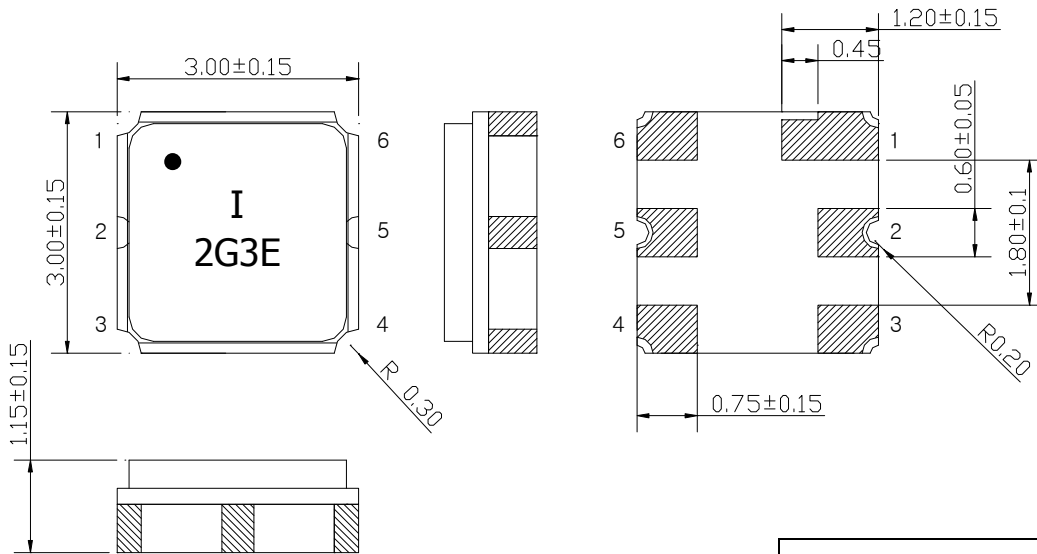
# SAW Bandpass Filter F2G3E



## Features

- Low-loss RF filter for digital radio
- No matching 50Ω single-ended operation
- Ceramic Surface Mounted Device (SMD) Package ( 3.0 mm \* 3.0 mm )
- RoHS Compliant
- This part is compliant with AEC-Q200

## Package Dimension – SMD 3.0 × 3.0



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	℃	-	25	-
Storage Temperature Range	℃	-	25	-
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.	F2G3E	
		Rev. Date	2016-04-12	
		Rev.	AS01	1/5

# SAW Bandpass Filter F2G3E




## Preliminary Specifications

$F_c = 2332.5$  MHz

	Minimum	Typical	Maximum	Unit
Center Frequency ( $F_c$ )	-	2332.5	-	MHz
Insertion Loss ( 2320 ~ 2345 MHz )	-	0.65	0.95	dB
Amplitude Ripple ( 2320 ~ 2345 MHz )	-	0.2	0.5	dB p-p
VSWR ( 2320 ~ 2345 MHz )	-	1.4	1.8	
Attenuation				
824 ~ 894 MHz	15.0	22.0	-	dB
1710 ~ 1755 MHz	16.0	18.5	-	
1850 ~ 1990 MHz	16.0	18.5	-	
2400 ~ 2415 MHz	15.0	35.0	-	
2415 ~ 2600 MHz	15.0	20.0	-	
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.	F2G3E	
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# SAW Bandpass Filter F2G3E



## Matching Schematic

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



C1, C2 = 3.3 pF

## Marking Configuration

- <sup>1)</sup>  
I<sup>2)</sup>  
2G3E<sup>3)</sup>

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

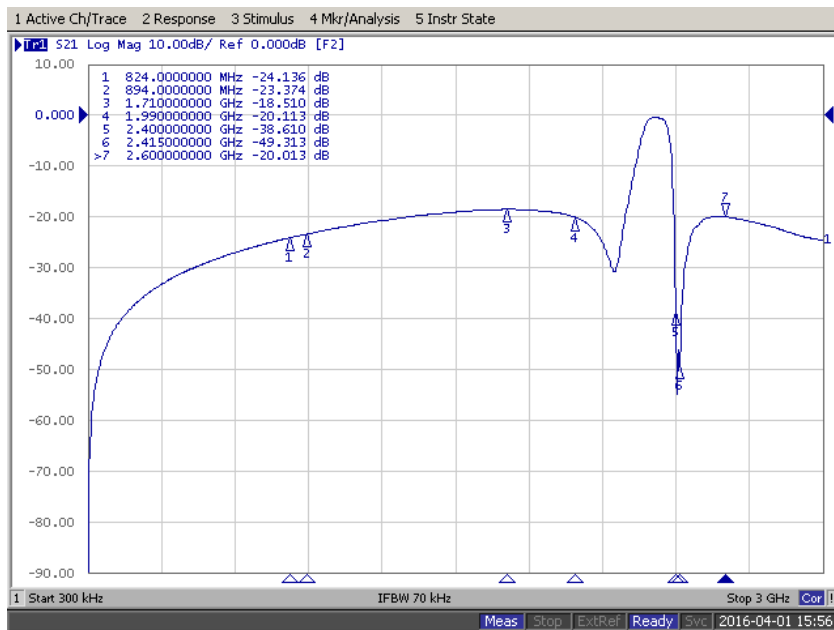
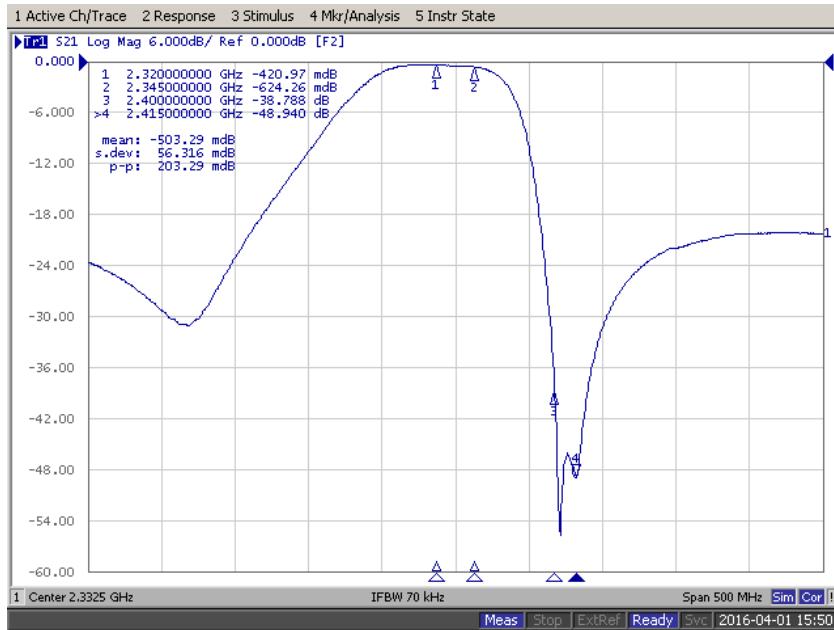
\* Ink or Laser Marking available


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## Typical Performance ( at 25°C )

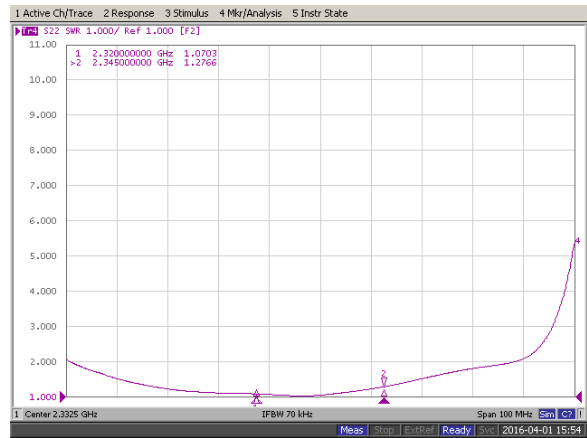
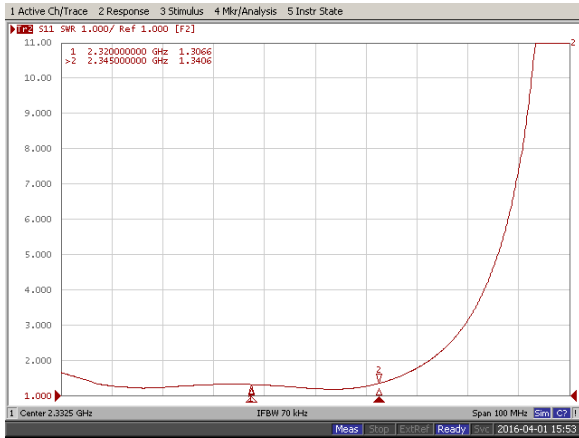


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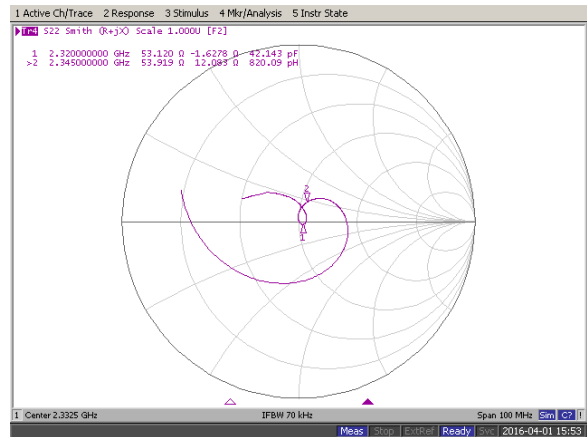
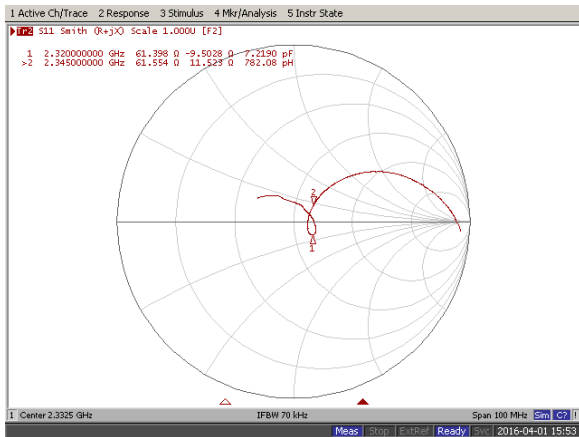
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## Input / Output VSWR Charts



## Input / Output Smith Charts



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Part No.

F2G3E

Rev. Date

2016-04-12

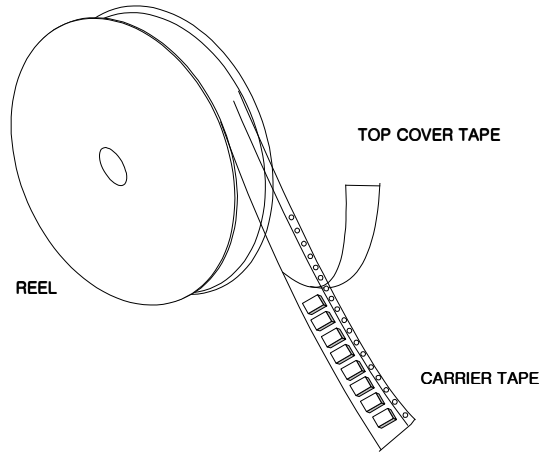
Rev.

AS01

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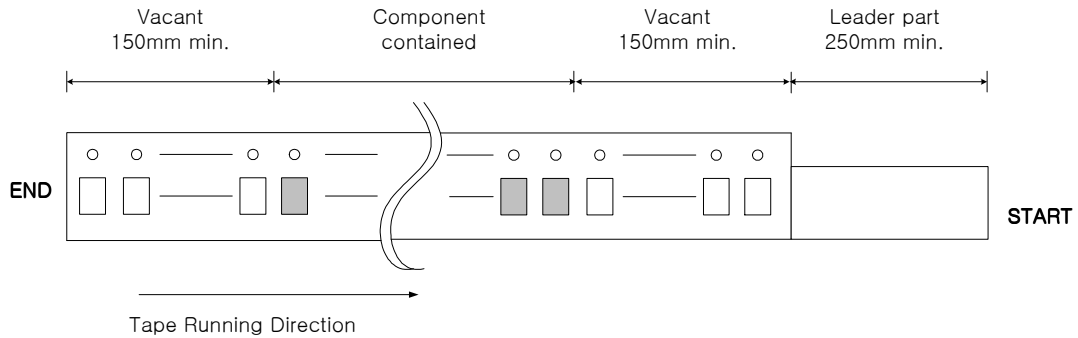
## Packing Specifications

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

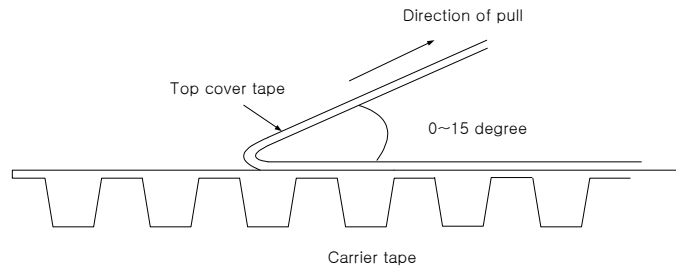


2. Tensile strength of carrier tape

4.4N/mm width

3. Top cover tape adhesion

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

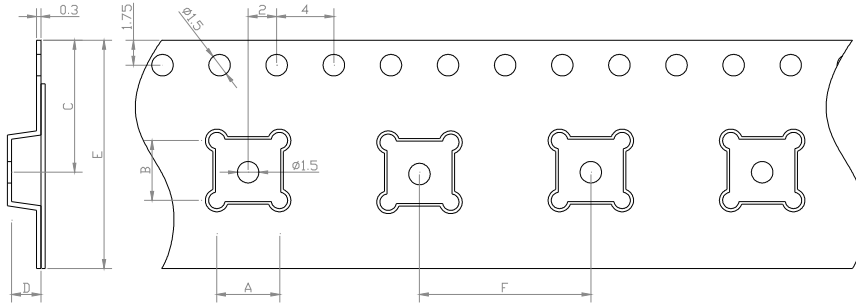


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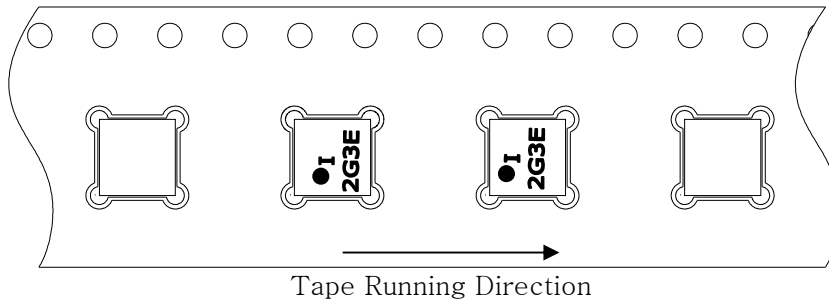


## Carrier Tape Dimensions [unit : mm]

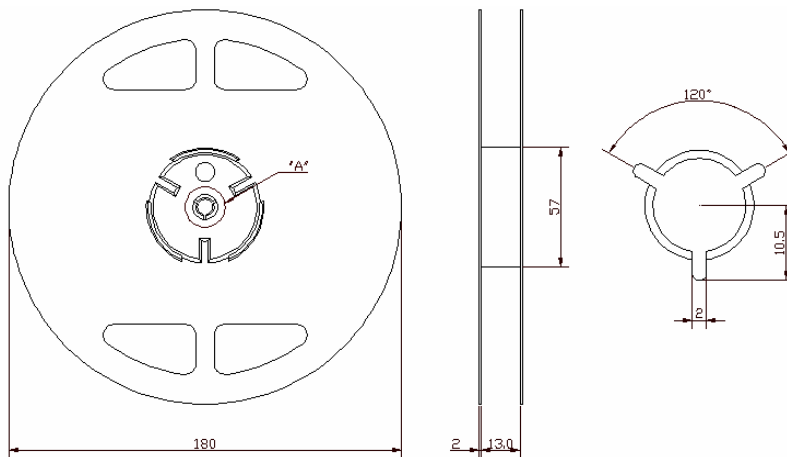



A	3.40 ± 0.1
B	3.40 ± 0.1
C	7.25 ± 0.1
D	1.70 ± 0.1
E	12.00 ± 0.1
F	8.00 ± 0.1

## Part Direction



## Reel Dimensions [unit : mm]



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