

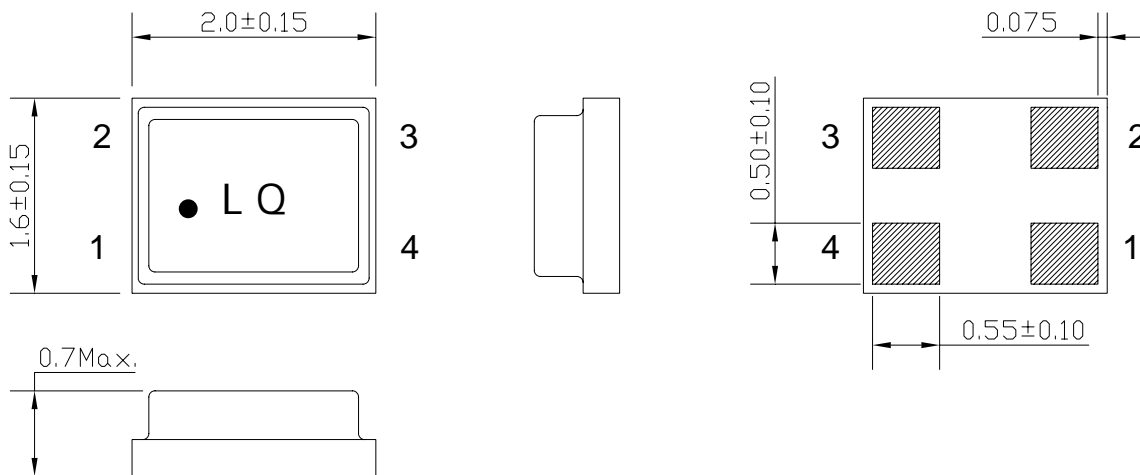
# SAW Bandpass Filter F1G56



## Features

- GPS applications
- Usable bandwidth of 2 MHz
- No impedance matching require for operation at 50 Ω
- SMD Package 2.0 mm × 1.6 mm× 0.7 mm
- Single-ended Operation
- RoHS Compliant

## Package Dimensions



Pin Configurations	
1	Input
2	Case Ground
3	Output
4	Case Ground

## Maximum Ratings

Parameters	Unit	Minimum	Typical	Maximum
Operating Temperature Range	℃	-40	25	85
Storage Temperature Range	℃	-40	-	95
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.	F1G56	
		Rev. Date	2007-07-13	
		Rev.	NC7001-AS02	1/7

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## Specifications

	Minimum	Typical	Maximum	Unit
Center Frequency ( Fc )	-	1575.42	-	MHz
Insertion Loss (Fo +/- 1 MHz)	-	1.1	1.6	dB
Amplitude Ripple (Fo +/- 1 MHz)	-	0.1	0.8	dBp-p
VSWR (Fo +/- 1 MHz)	-	1.2	1.8	
Relative Attenuation				
D.C. ~ 1400 MHz	20.0	23.0	-	dB
1400 ~ 1490 MHz	25.0	30.0	-	
1490 ~ 1520 MHz	30.0	35.0	-	
( 1500 MHz )	(35.0)	(44.0)	-	
1625 ~ 1635 MHz	30.0	42.0	-	
1800 ~ 3000 MHz	25.0	30.0	-	
Temperature Range (Operational)	-40	25	85	℃
Input RF Power (Fo +/- 1 MHz)			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

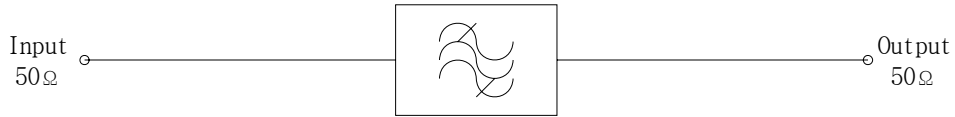
	<b>ITF Co., Ltd.</b> 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F1G56	
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## Matching Schematic

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



## Marking Configuration


●<sup>1)</sup> L <sup>2)</sup> Q <sup>3)</sup>

1) Index Mark

2) Part Number Mark

3) Lot Number ( ITF Standard Rule )

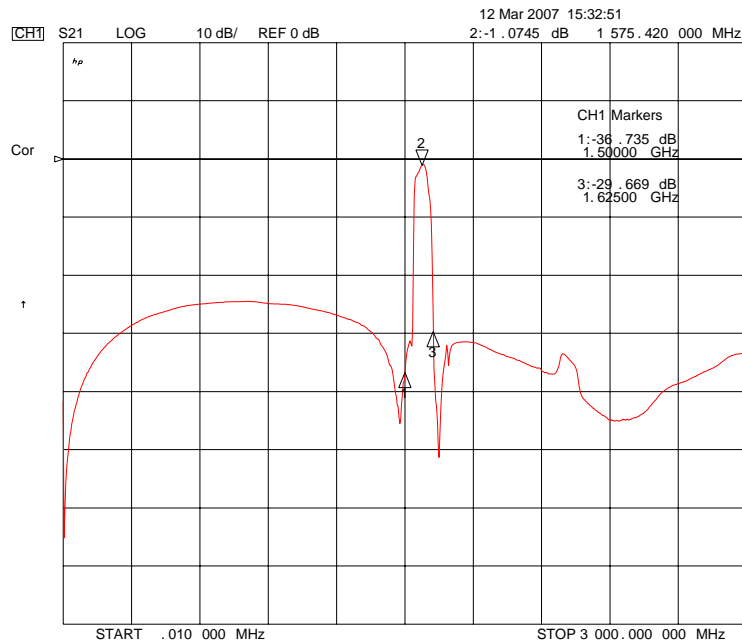
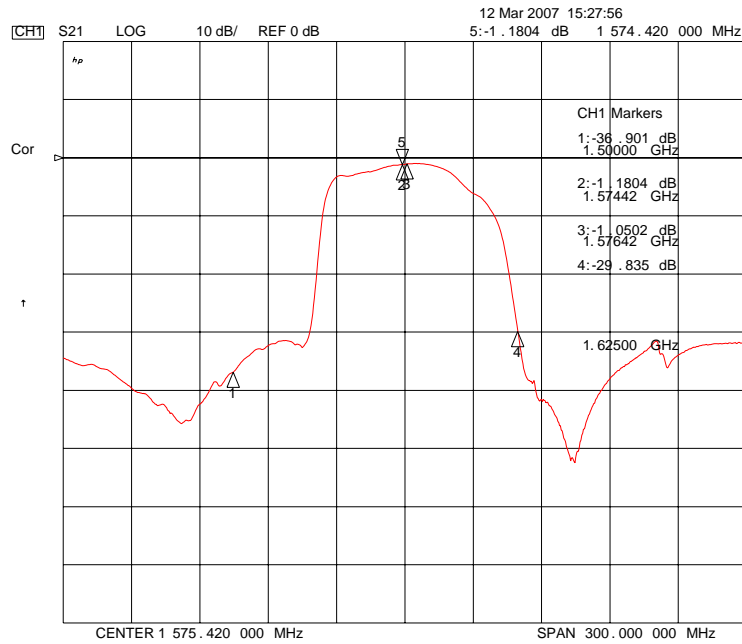
\* Ink or Laser Marking available


 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.	F1G56	
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## Typical Performance ( at 25 °C )

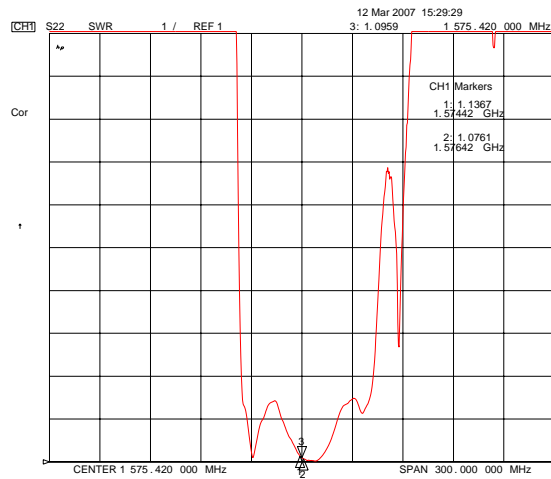
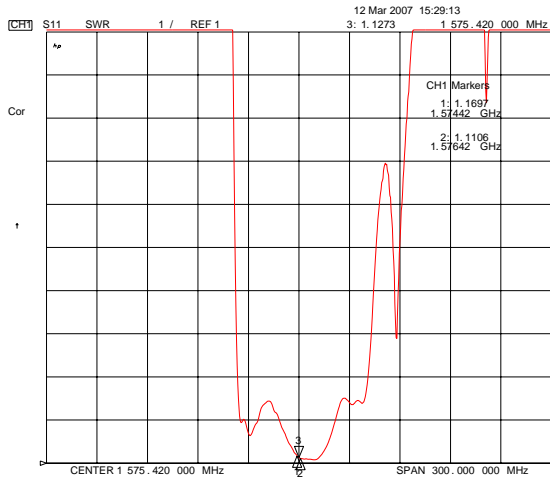


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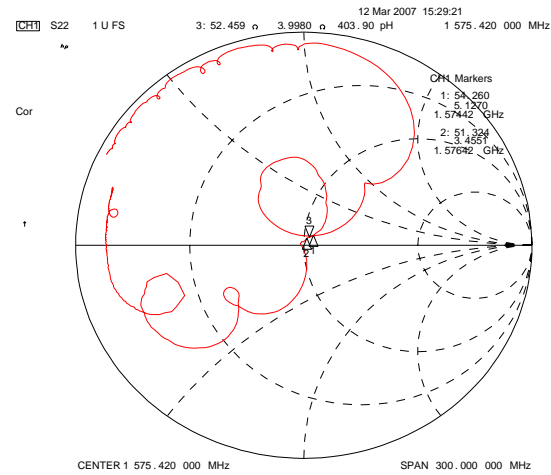
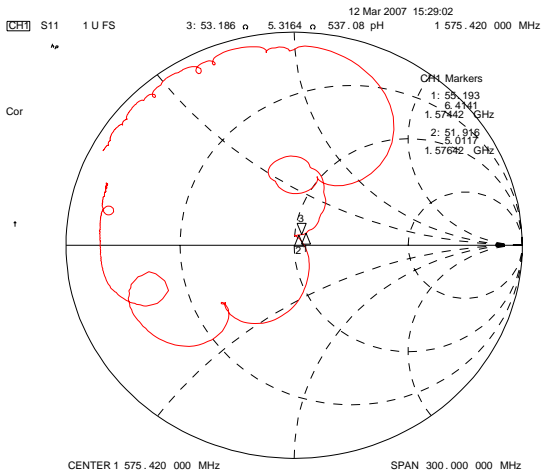
# SAW Bandpass Filter F1G56



## Input / Output VSWR Charts



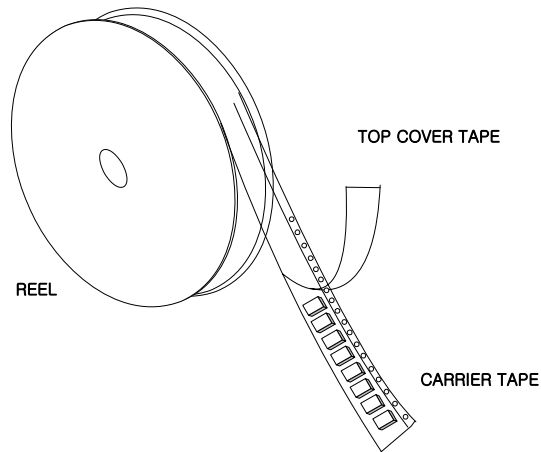
## Input / Output Smith Charts



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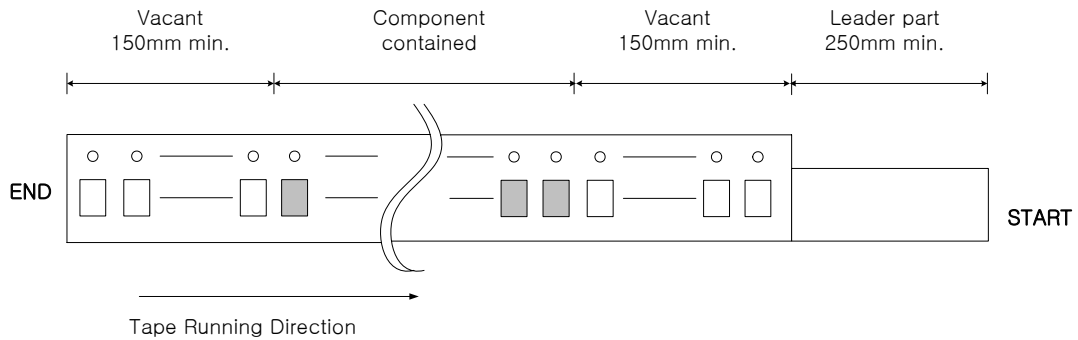
## Packing Specification

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

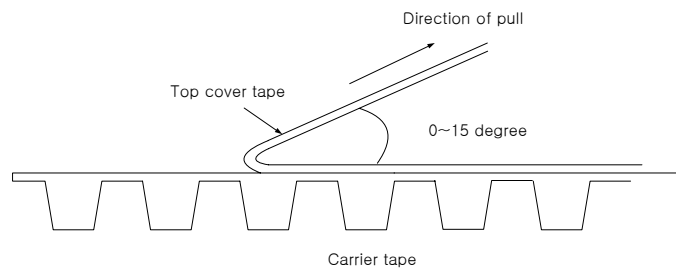


2. Tensile strength of carrier tape

4.4N/mm width

3. Top cover tape adhesion

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

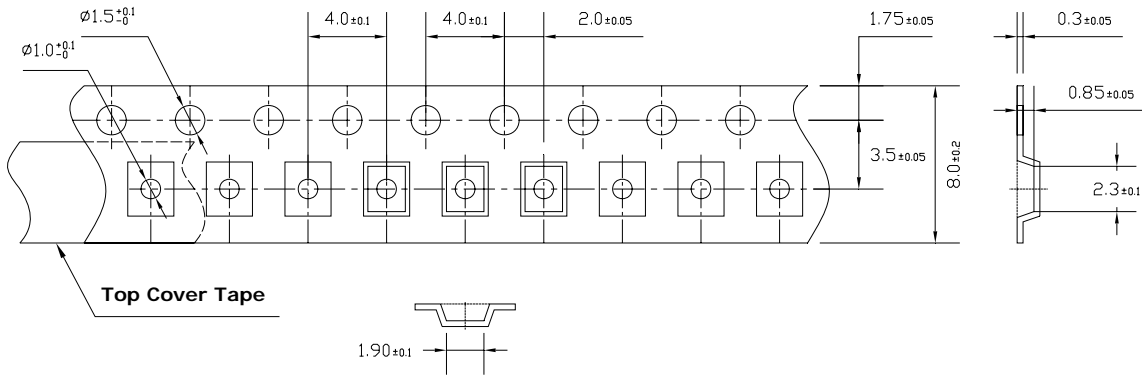


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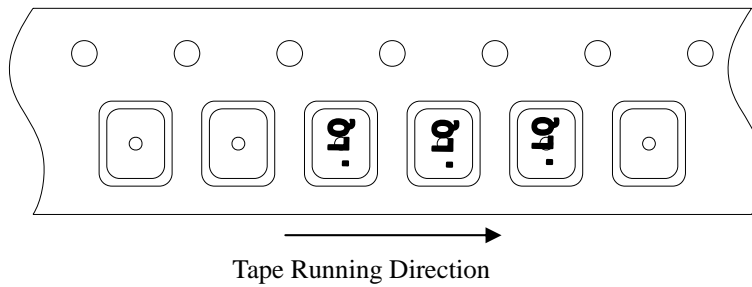
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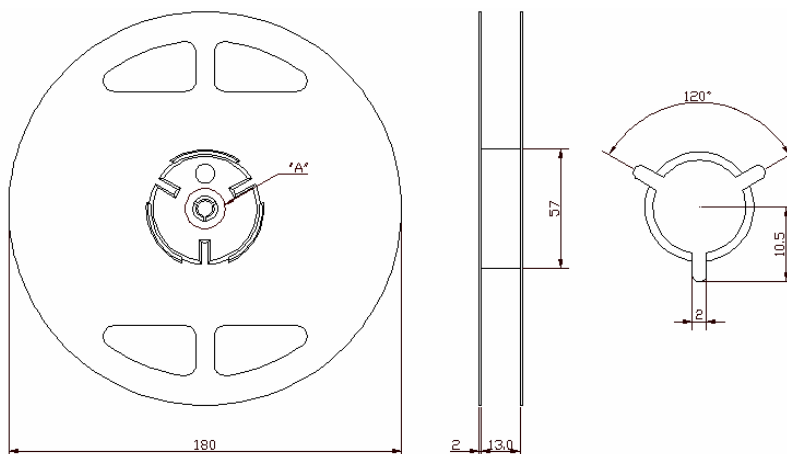
## Carrier Tape Dimensions [unit : mm]



## Part Direction



## Reel Dimensions [unit : mm]



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