

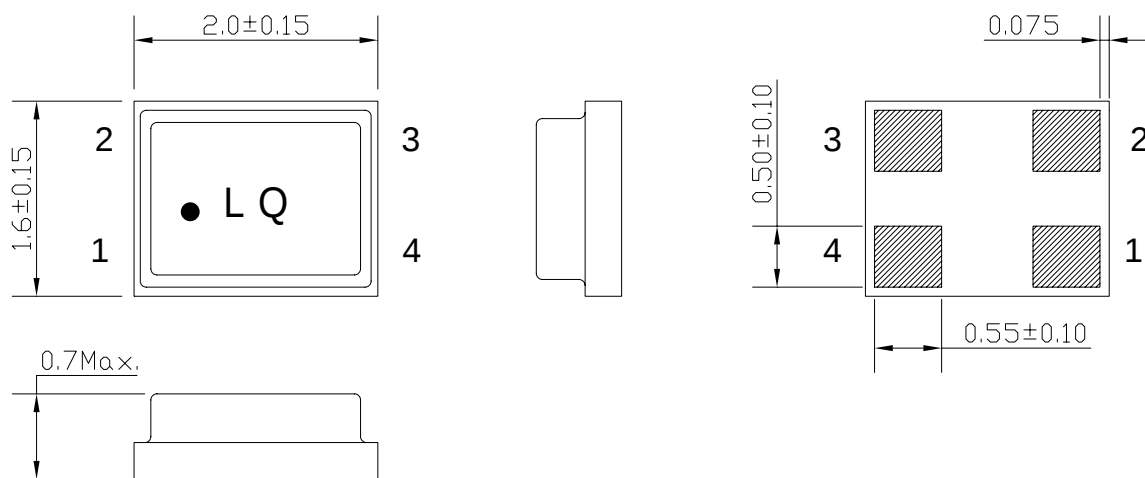
SAW Bandpass Filter F1G56



Features

- GPS applications
- Usable bandwidth of 2 MHz
- No impedance matching require for operation at 50 Ω
- SMD Package 2.0 mm $\times$ 1.6 mm $\times$ 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	°C	-40	25	85
Storage Temperature Range	°C	-40	-	95
Power Handling Capability	dBm	-	-	10

Electrostatics Sensitive Device (ESD)

	ITF Co., Ltd. 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

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Matching Schematic

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



Marking Configuration

●¹⁾ L ²⁾ Q ³⁾

1) Index Mark

2) Part Number Mark

3) Lot Number (ITF Standard Rule)

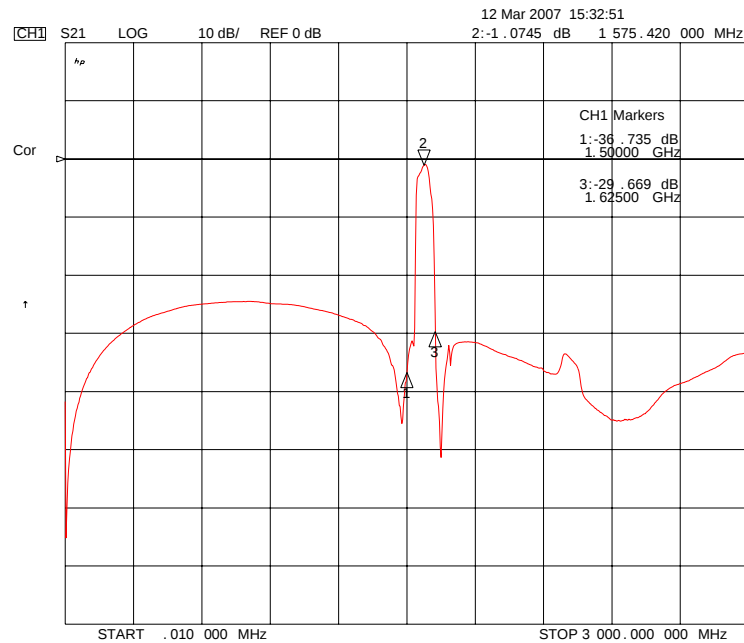
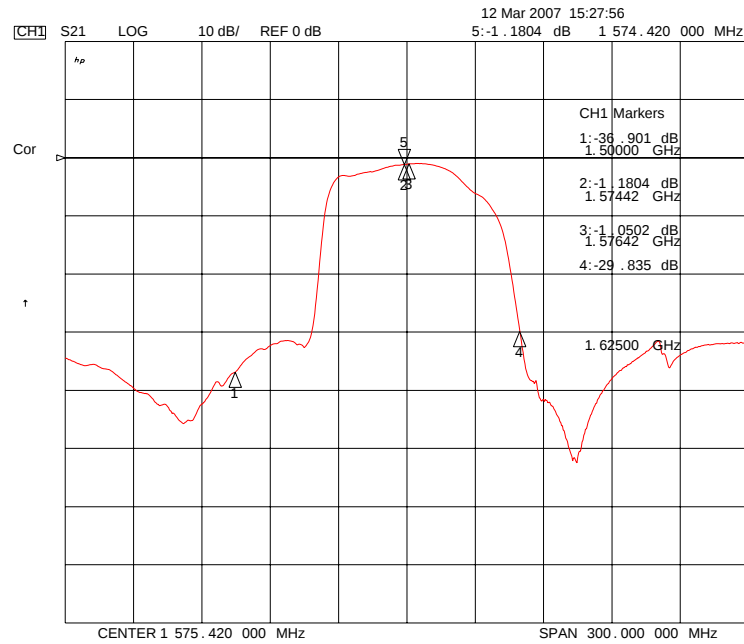
* Ink or Laser Marking available

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Typical Performance (at 25 °C)

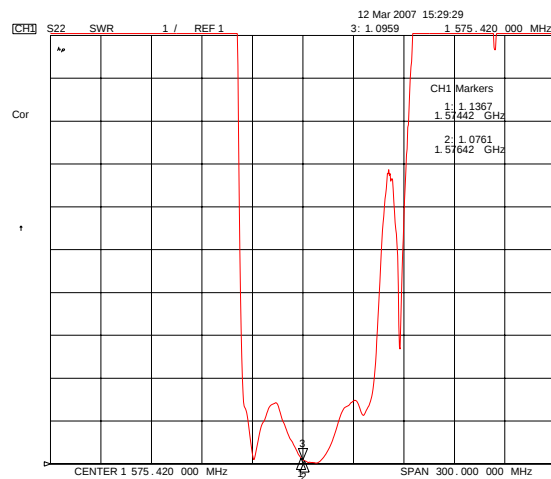
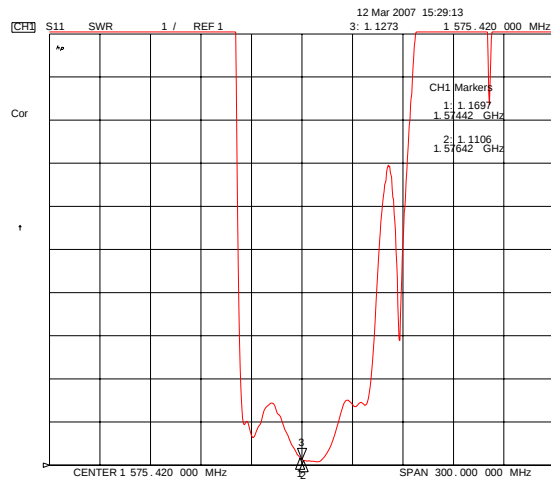


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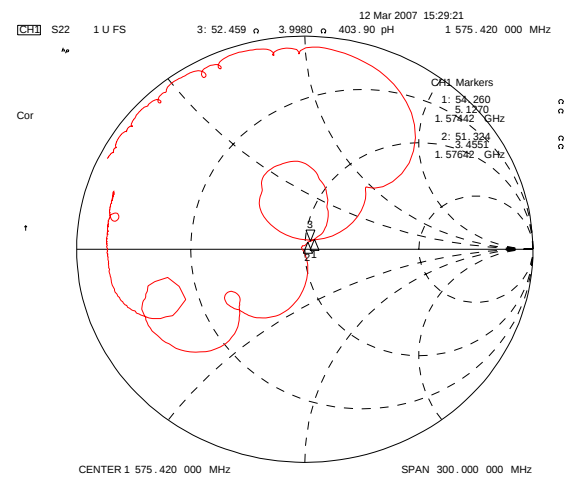
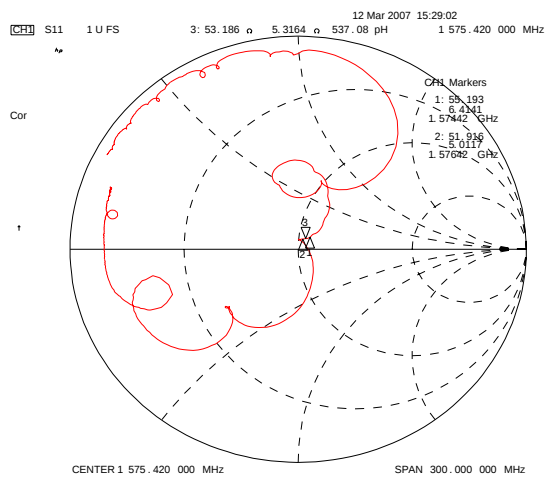
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Input / Output VSWR Charts



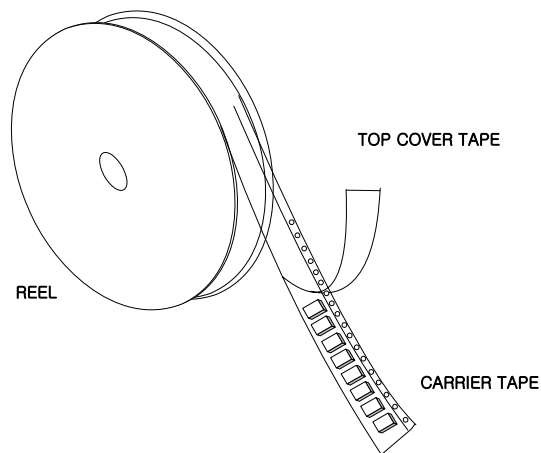
Input / Output Smith Charts



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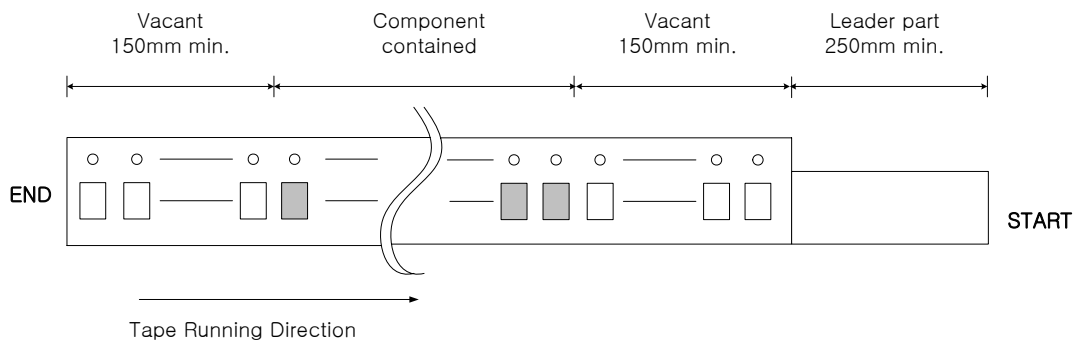
Packing Specification

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

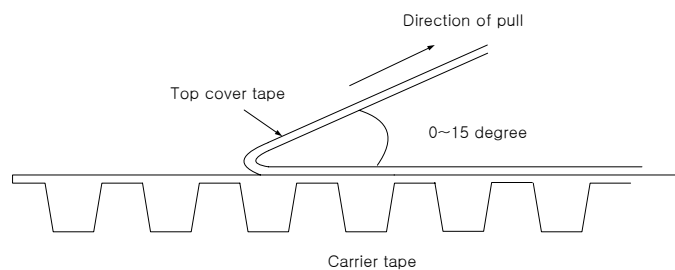


2. Tensile strength of carrier tape

4.4N/mm width

3. Top cover tape adhesion

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

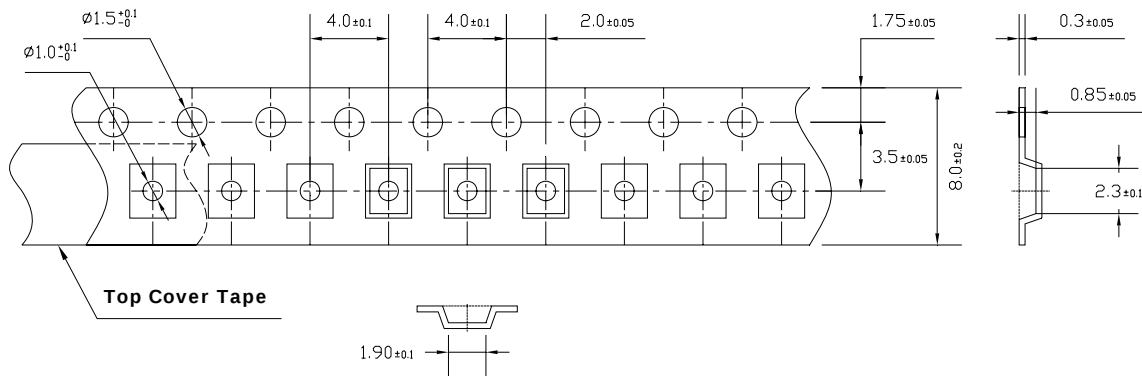


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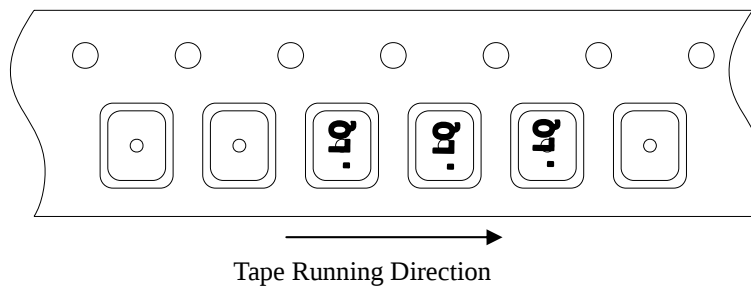
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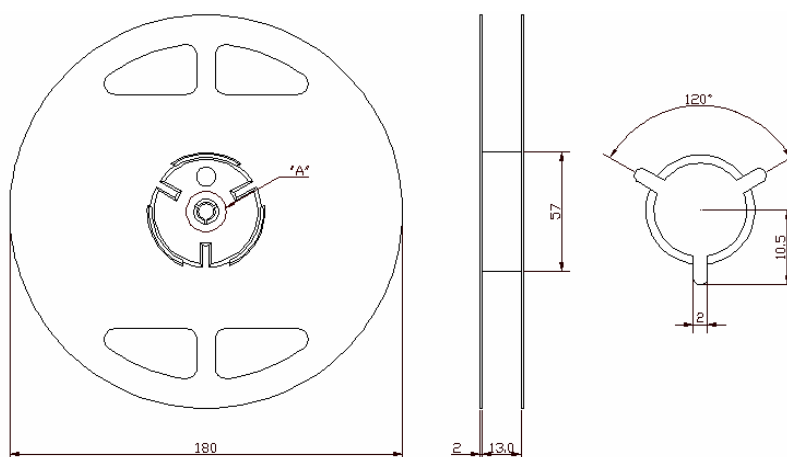
Carrier Tape Dimensions [unit : mm]



Part Direction



Reel Dimensions [unit : mm]



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