

SAW Bandpass Filter F1G52



Specifications

$F_c = 1575.42 \text{ MHz}$

Terminating source impedance : 50Ω

Terminating load impedance : 50Ω

		Minimum	Typical	Maximum
Center Frequency	MHz	-	1575.42	-
Insertion Loss ($F_o \pm 1 \text{ MHz}$)	dB	-	1.5	2.2
Amplitude Ripple ($F_o \pm 1 \text{ MHz}$)	dB p-p	-	0.1	1.0
Relative Attenuation	dB			
D.C. ~ 1400 MHz		35.0	37.0	-
1400 ~ 1475 MHz		30.0	34.0	-
1475 ~ 1525 MHz		25.0	37.0	-
1625 ~ 1640 MHz		30.0	45.0	-
1640 ~ 2000 MHz		32.0	34.0	-
2000 ~ 3000 MHz		20.0	28.0	-
VSWR (1574.42 ~ 1576.42 MHz)	-	-	1.2	2.0

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

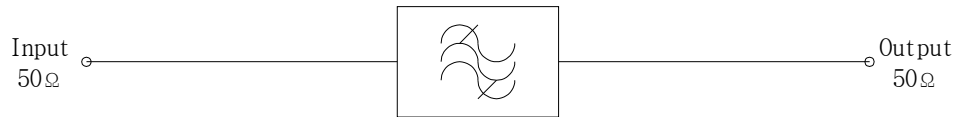
	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F1G52	
		Rev. Date	2007-10-16	
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Matching Schematic

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



Marking Configuration

I¹⁾ 5A²⁾

● 3)

1) Manufacturer name

2) Marking Number

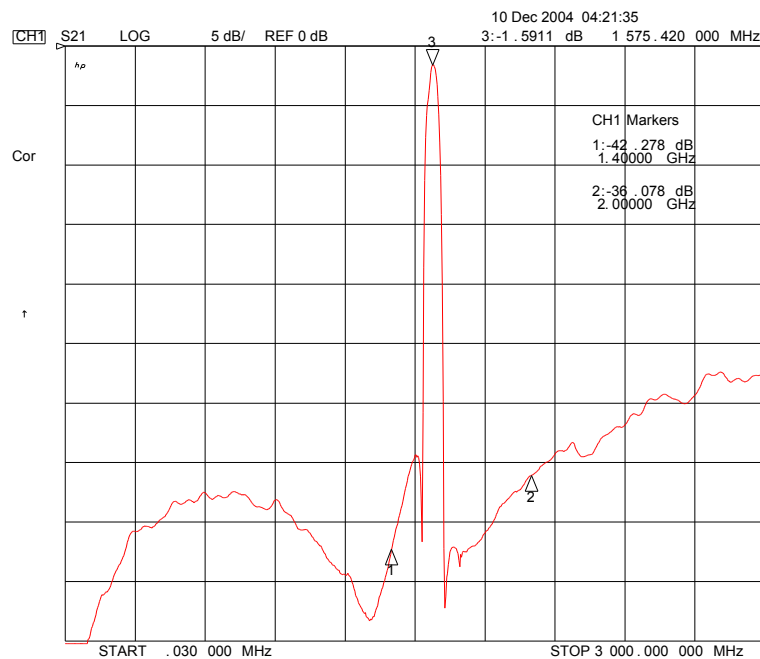
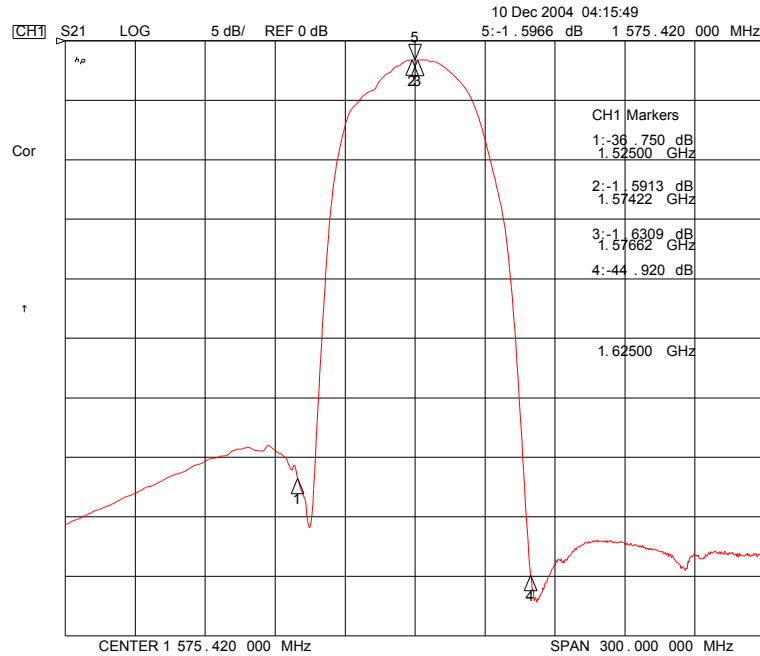
3) Pad Num 1 Index

The logo for ITF Co., Ltd., featuring the letters 'ITF' in a stylized, colorful font.	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F1G52	
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Typical Performance (at 25°C)

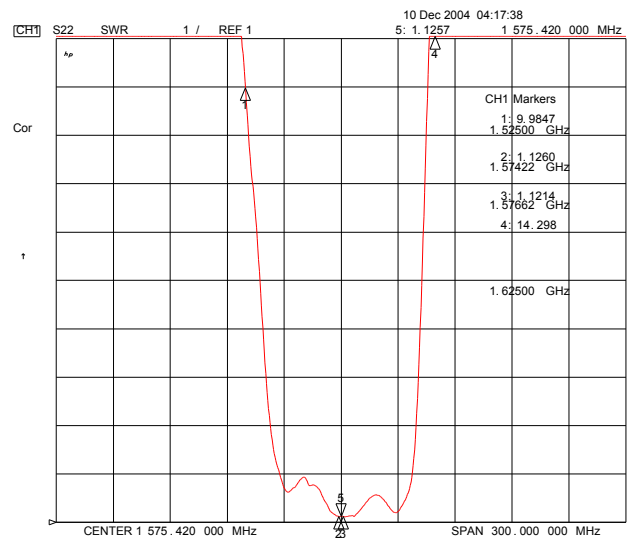
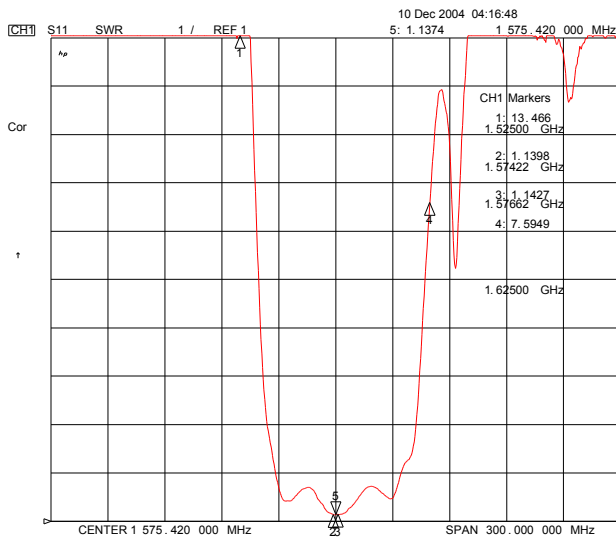


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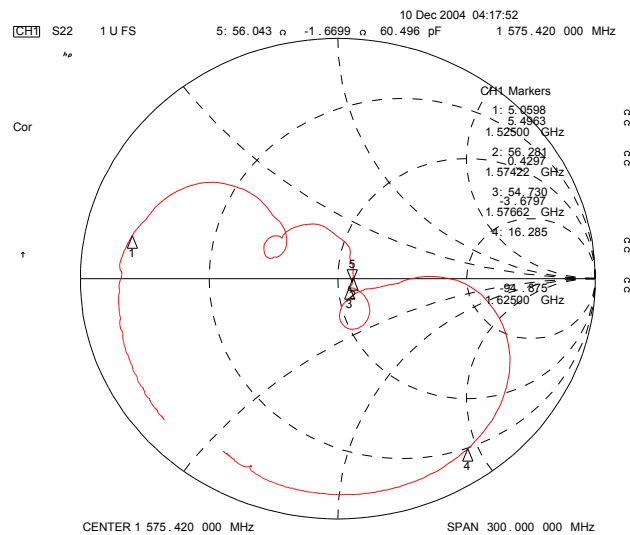
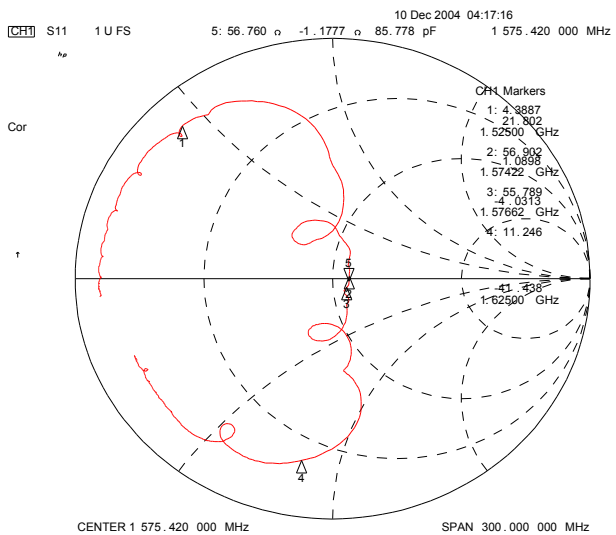
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Input / Output VSWR Charts



Input / Output Smith Charts



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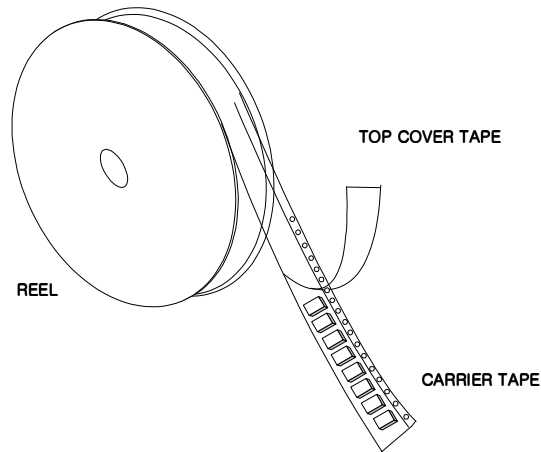
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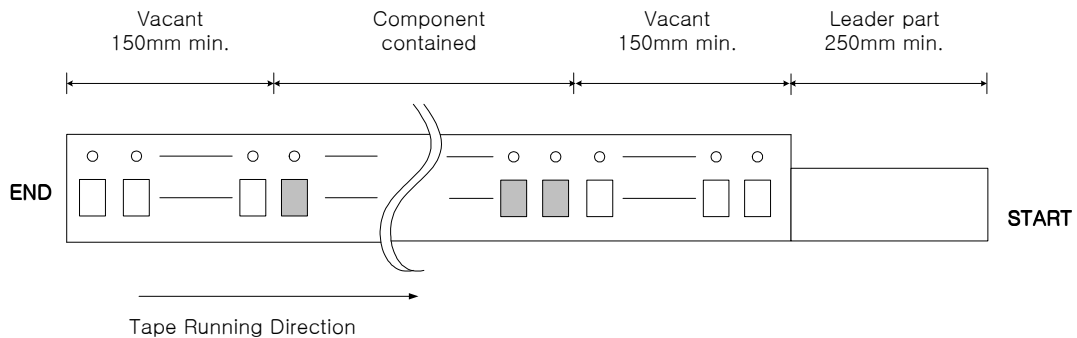
Packing Specification

1. Reeling Quantity : 3,000 pcs / reel (or 1,000 pcs / reel, 2,000 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

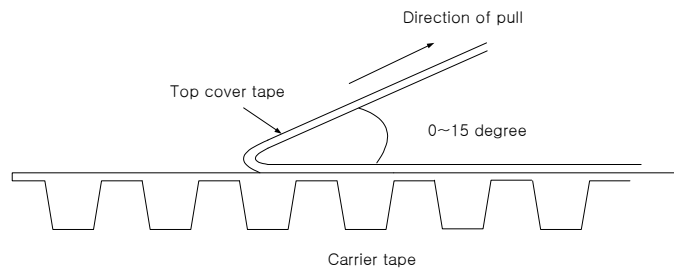


2. Tensile strength of carrier tape

4.4N/mm width

3. Top cover tape adhesion

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

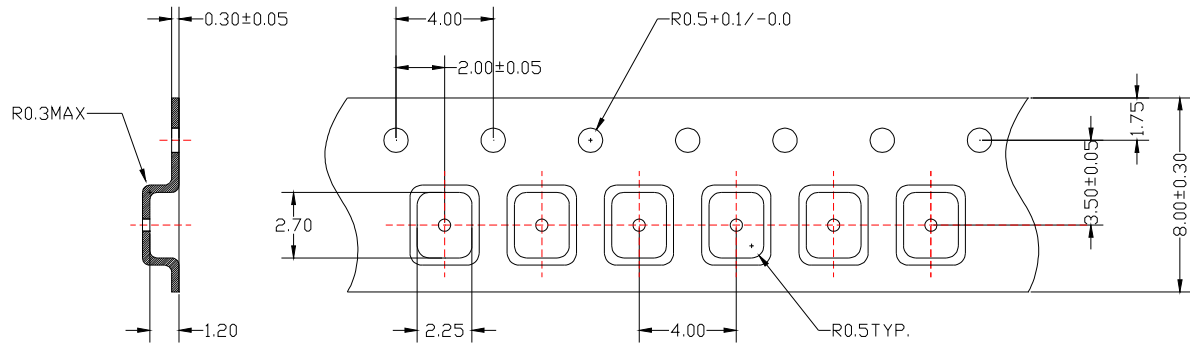


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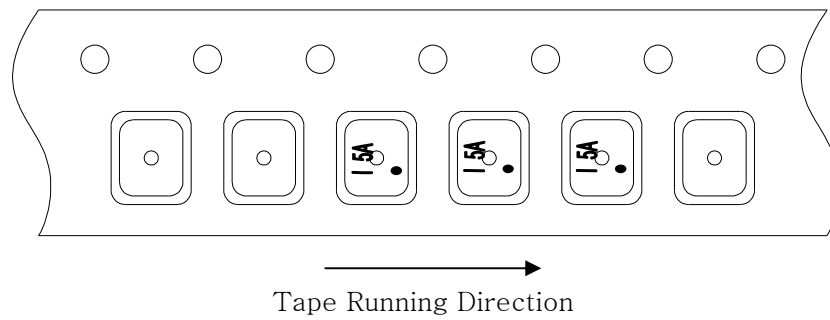
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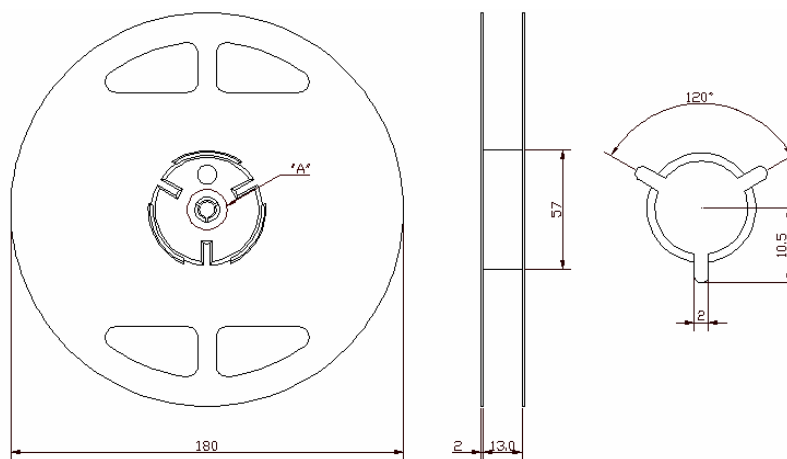
Carrier Tape Dimensions [unit : mm]



Part Direction



Reel Dimensions [unit : mm]



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