

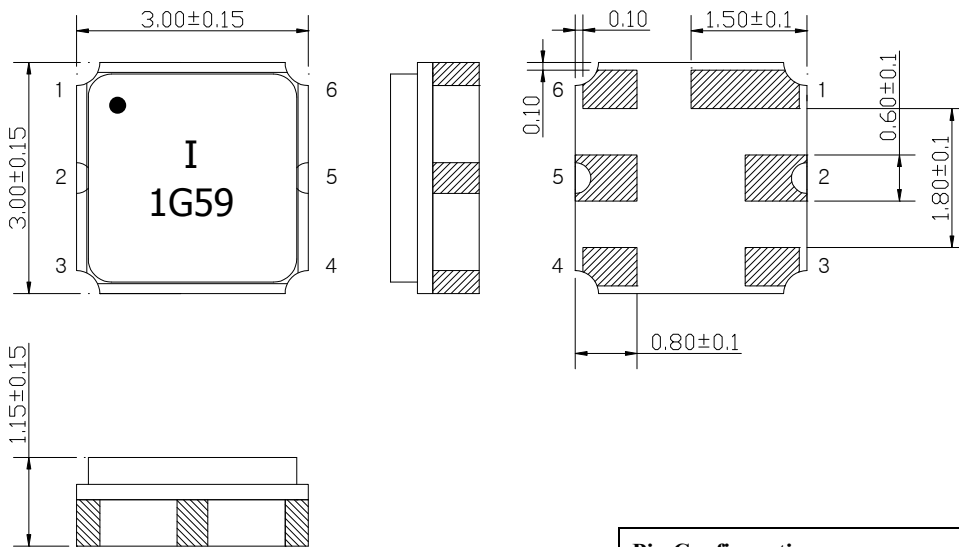
SAW Bandpass Filter F1G59



Features

- RF bandpass filter
- High attenuation
- Usable bandwidth 40.0MHz
- No matching 50Ω single-ended operation
- Ceramic Surface Mounted Device (SMD) Package

Package Dimensions



Dimensions shown are nominal in millimeters

Body : Al₂O₃ 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	°C	-55	25	85
Storage Temperature Range	°C	-55		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.	F1G59	
		Rev. Date	NC9008	
		Rev.	AS01	1/7

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Specifications

Fc = 1590.0 MHz


Terminating source impedance : 50Ω

Terminating load impedance : 50Ω

		Minimum	Typical	Maximum
Center Frequency (Fc)	MHz	-	1590.0	-
Insertion Loss (Fc ± 20.0 MHz)	dB	-	3.7	4.5
Amplitude Ripple (Fc ± 20.0 MHz)	dB	-	1.0	1.8
VSWR (Fc ± 20.0 MHz)		-	1.8	2.5
Relative Attenuation				-
DC~ 1200.0 MHz		45	50	-
1200.0MHz ~ 1530.0MHz	dB	40	45	-
1700.0MHz ~ 2000.0MHz		40	45	-
2000.0MHz ~ 3000.0MHz		40	45	-

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

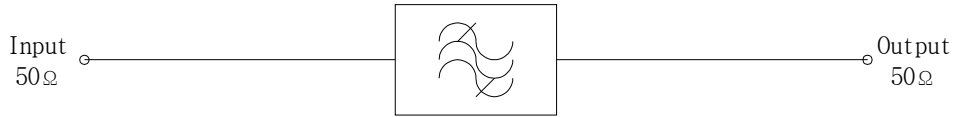
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Matching Schematic

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



Marking Configuration


●¹⁾
I²⁾
1G59³⁾

1) Pad Number 1 Index

2) Manufacturer name

3) Marking Number

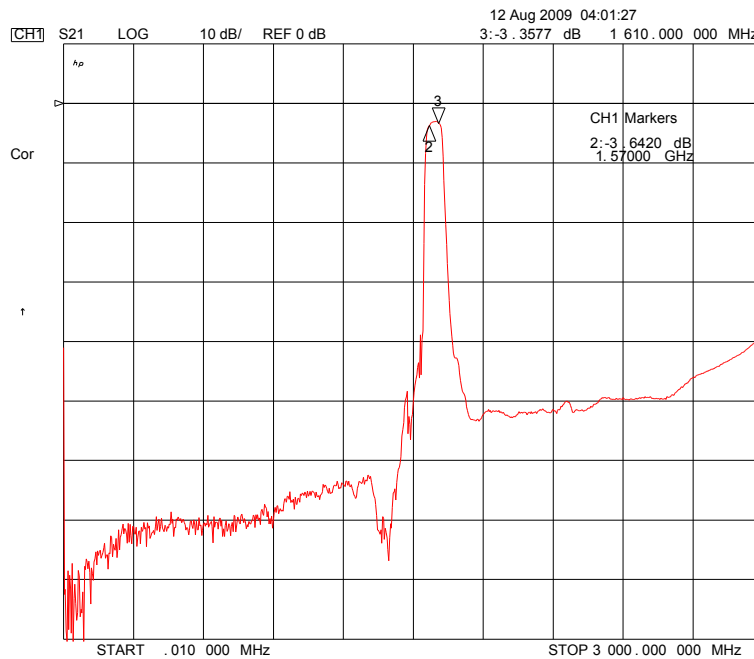
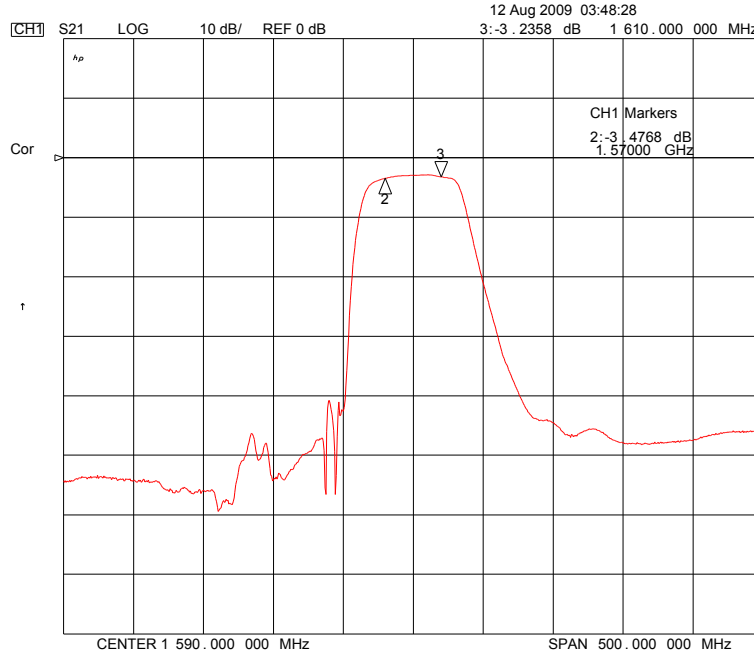
* Ink or Laser Marking available


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Typical Performance (at 25°C)

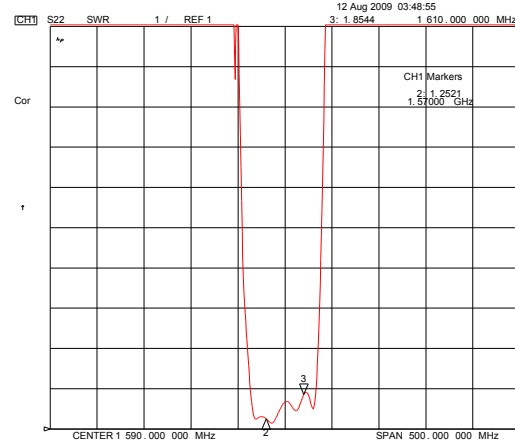
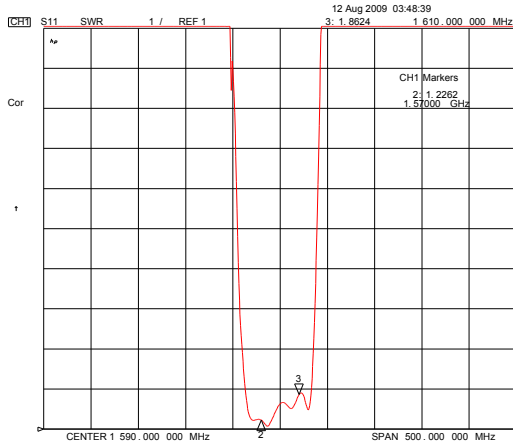


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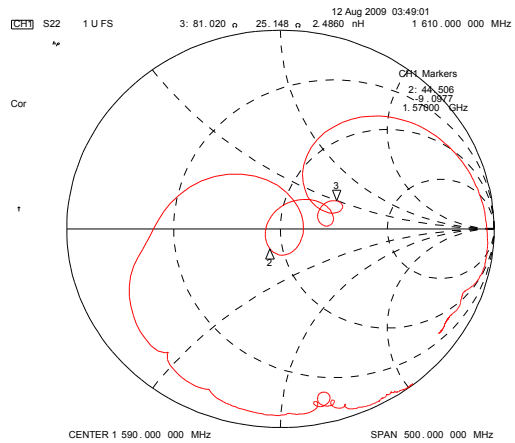
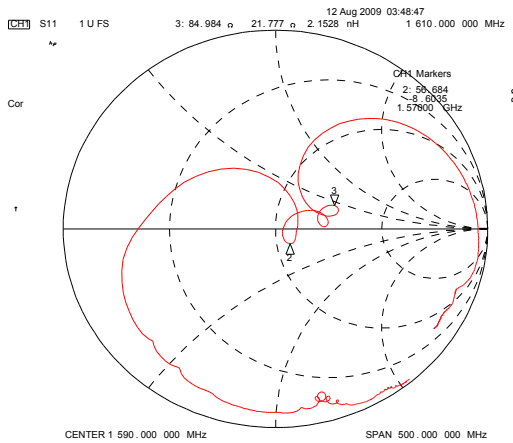
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Input / Output VSWR Charts



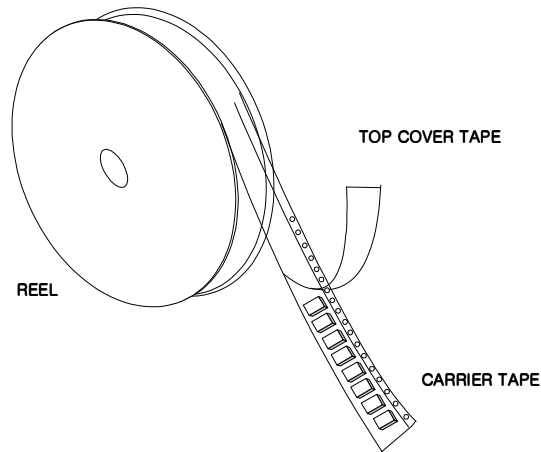
Input / Output Smith Charts



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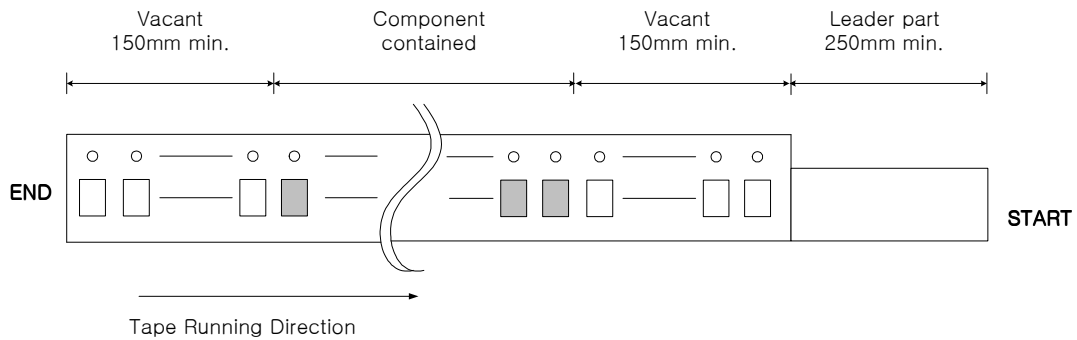
Packing Specification

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

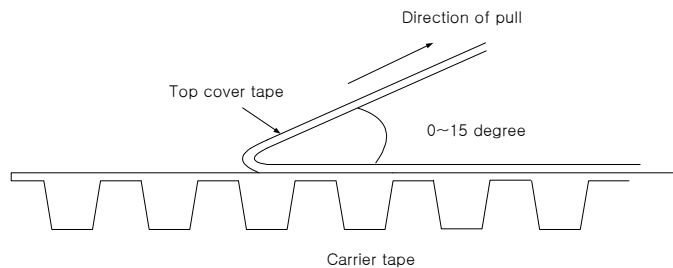


2. Tensile strength of carrier tape

4.4N/mm width

3. Top cover tape adhesion

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

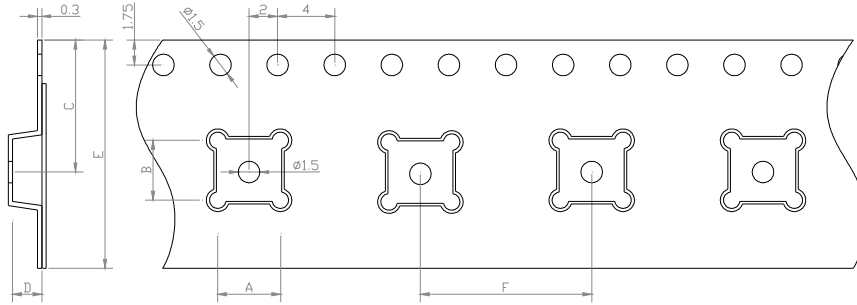


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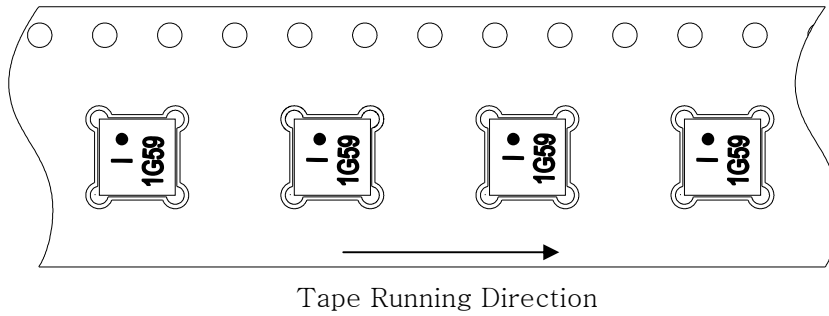


Carrier Tape Dimensions [unit : mm]

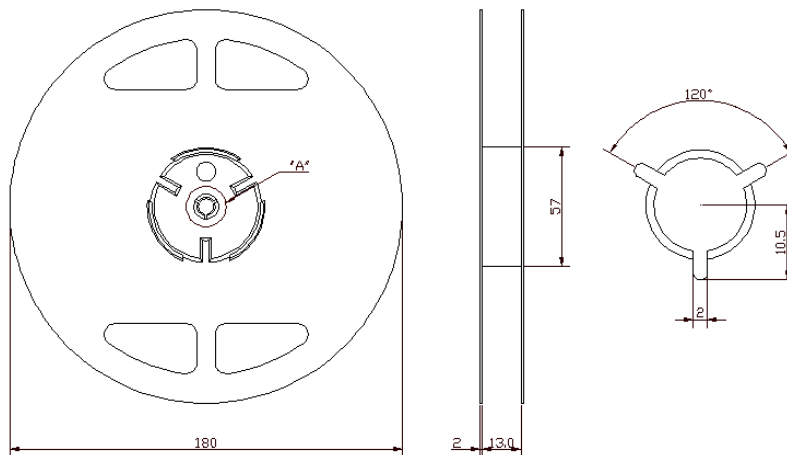


A	3.40 ± 0.1
B	3.40 ± 0.1
C	7.25 ± 0.1
D	1.70 ± 0.1
E	12.00 ± 0.1
F	8.00 ± 0.1

Part Direction



Reel Dimensions [unit : mm]



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