

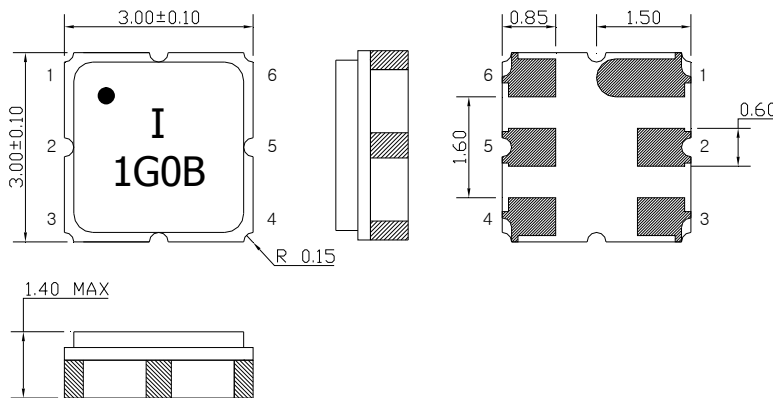
SAW Bandpass Filter F1G0B



Features

- RF bandpass filter
- Usable bandwidth 10MHz
- No matching single-ended operation
- Ceramic Surface Mounted Device (SMD) Package (3.0mm × 3.0mm)
- RoHS/RoHS2 (2015/863/EU) Compliant

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	Ground

Maximum Ratings

Parameter	Unit	Minimum	Typical	Maximum
Operable Temperature Range	°C	-55	25	85
Storage Temperature Range	°C	-55	-	125
Power Handling Capability	dBm	-	-	20

Electrostatics Sensitive Device (ESD)

	ITF Co., Ltd. 102-901, 22, Samjak-ro, Ojeong-gu, Bucheon-si, Gyeonggi-do, Korea, 14501	Part No.	F1G0B	
		Rev. Date	2019-10-28	
		Rev.	NRUi01- AS02	1/7

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Specifications

Fc = 1090 MHz

		Minimum	Typical	Maximum
Center Frequency (Fc)	MHz	-	1090	-
Insertion Loss (Fc ± 5.0MHz)	dB	-	2.7	4
Amplitude Ripple (Fc ± 5.0MHz)	dB	-	0.4	1.3
Absolute Attenuation				
500 ~ 900 MHz	dB	53	57	-
900 ~ 1040 MHz		45	48	-
1040 ~ 1050 MHz		40	45	-
1140 ~ 1160 MHz		42	60	-
1160 ~ 1380 MHz		45	50	-
1380 ~ 1600 MHz		40	45	-
Input/Output impedance	Ohm	-	50	-

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

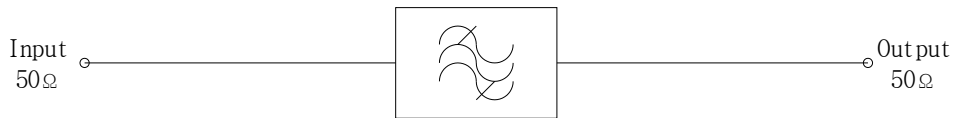
 Integrated Technology Future	ITF Co., Ltd. 102-901, 22, Samjak-ro, Ojeong-gu, Bucheon-si, Gyeonggi-do, Korea, 14501	Part No.	F1G0B	
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Matching Schematic

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



Marking Configuration


- ¹⁾
I ²⁾
1G0B ³⁾

1) Pad Number 1 Index

2) Manufacturer name

3) Marking Number

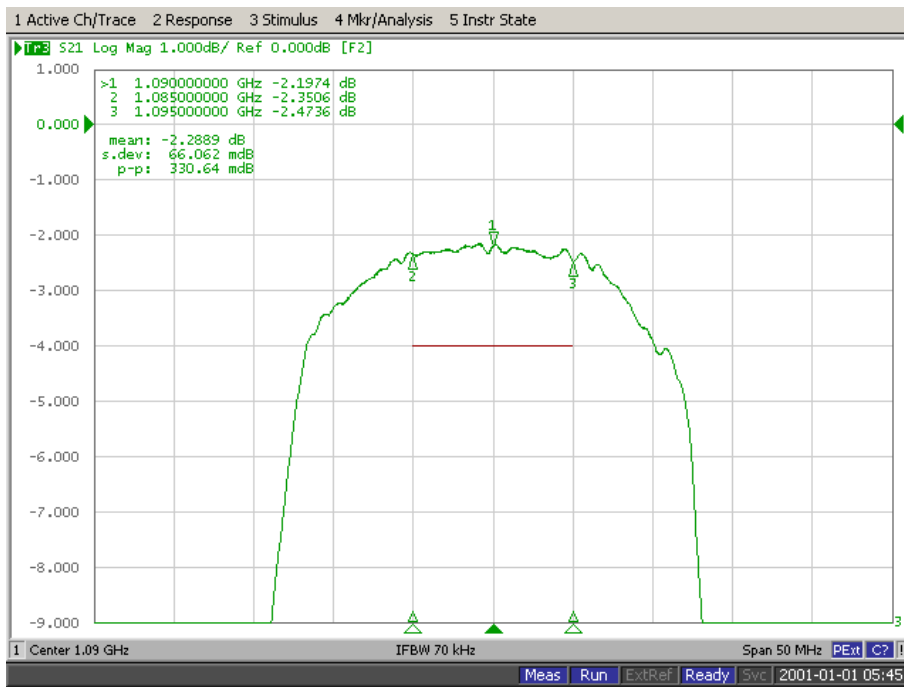
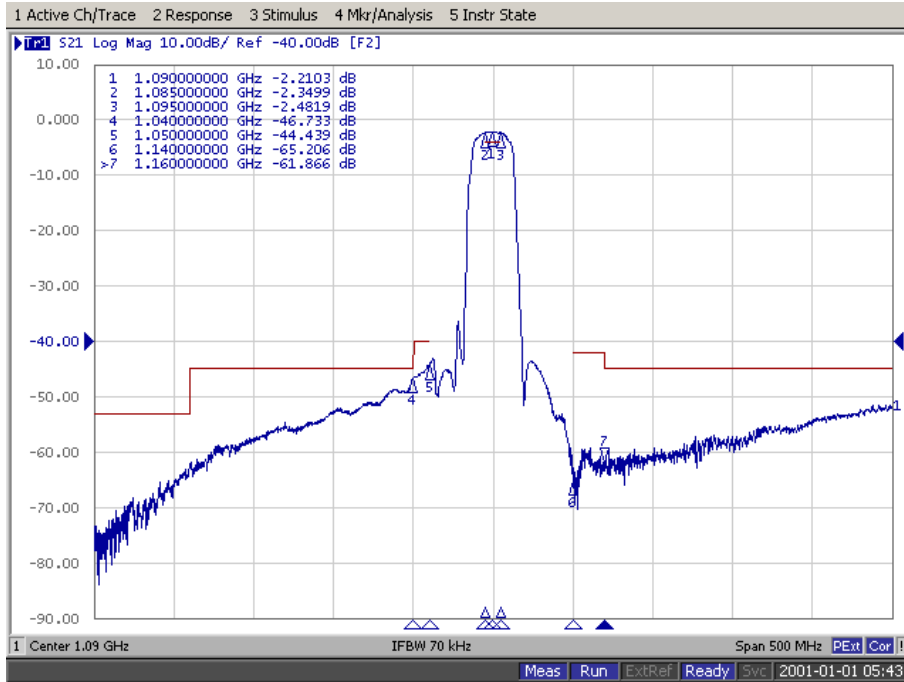
* Ink or Laser Marking available

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Typical Performance (at 25°C)



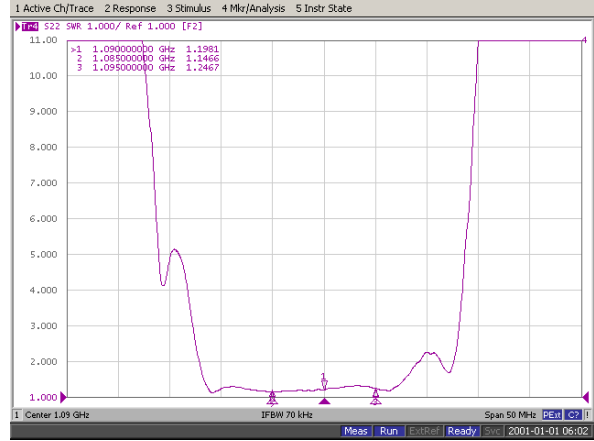
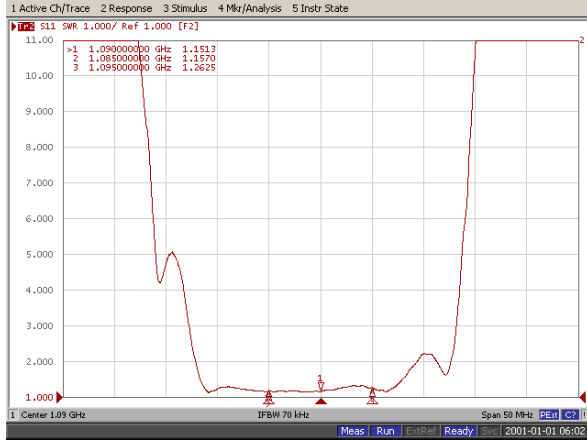
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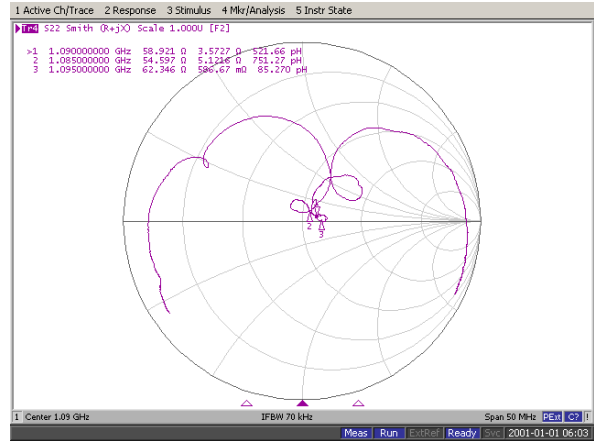
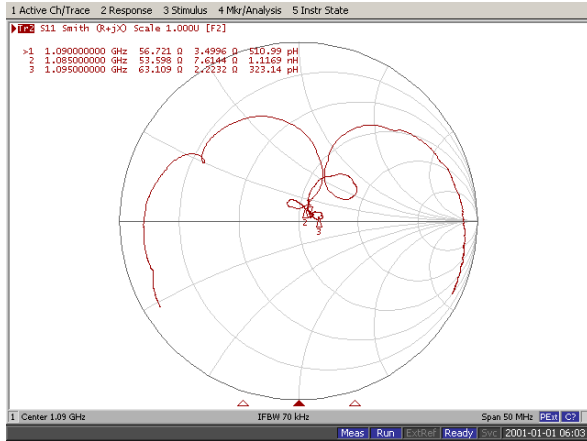
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Input / Output VSWR Charts



Input / Output Smith Charts



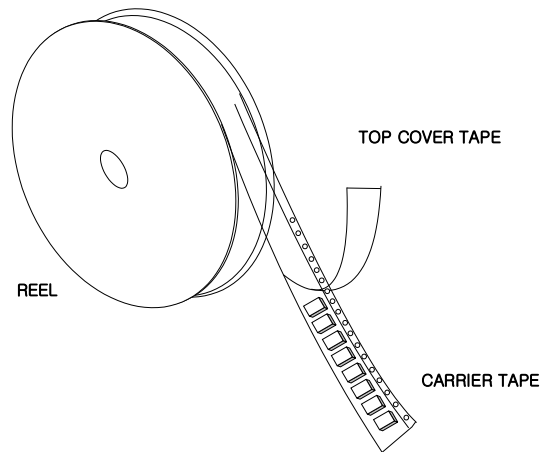
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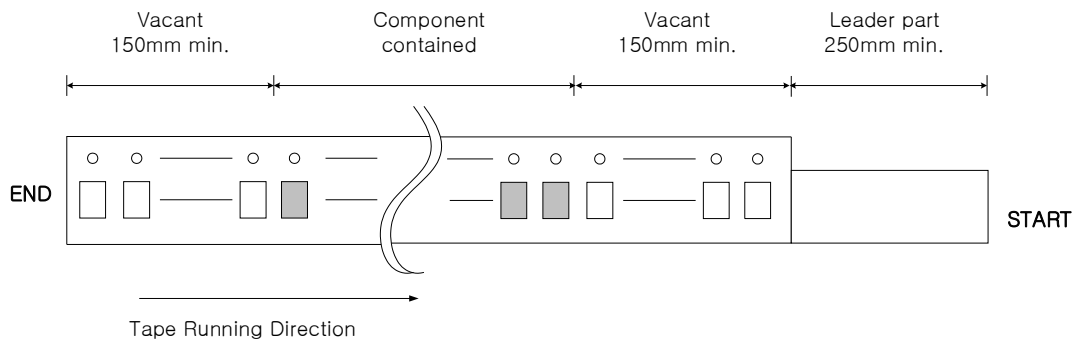
Packing Specification

1. Reeling Quantity : 1000 pcs / reel or 3000 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

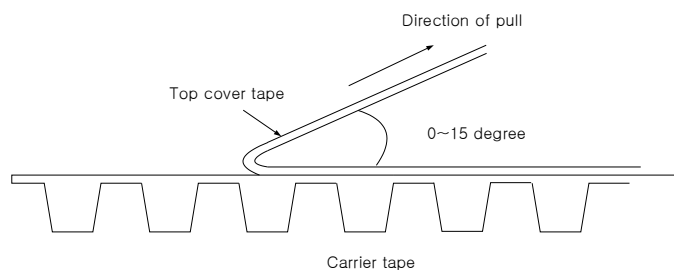


2. Tensile strength of carrier tape

4.4N/mm width

3. Top cover tape adhesion

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

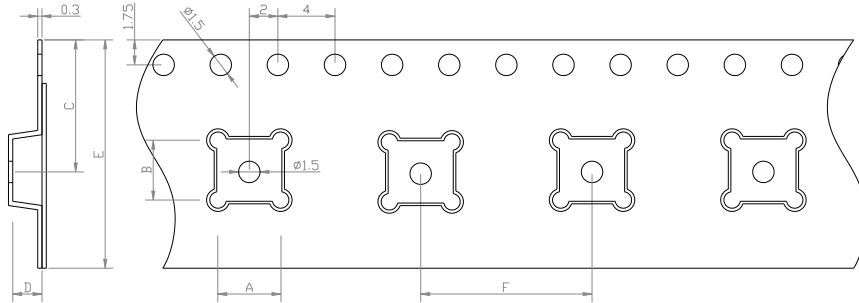


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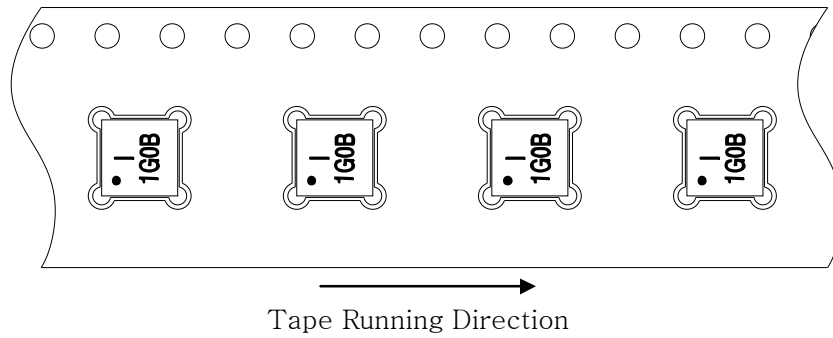


Carrier Tape Dimensions [unit : mm]

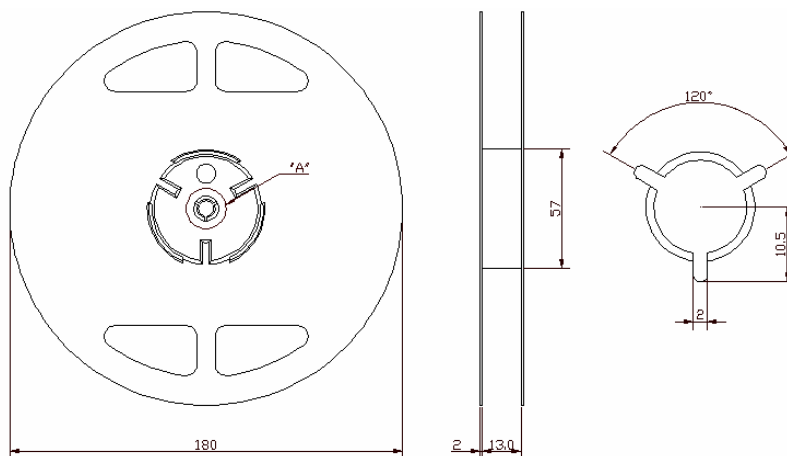



A	3.40 ± 0.1
B	3.40 ± 0.1
C	7.25 ± 0.1
D	1.70 ± 0.1
E	12.00 ± 0.1
F	8.00 ± 0.1

Part Direction



Reel Dimensions [unit : mm]



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