

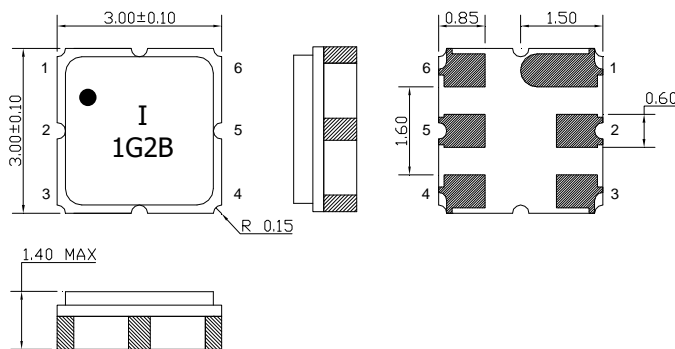
SAW Bandpass Filter F1G2B



Features

- RF bandpass filter
- Passband 87.0MHz
- Ceramic Surface Mounted Device (SMD) Package (3.0mm * 3.0mm)
- RoHS/RoHS2 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

Pin Configuration	
2	Input
5	Output
1, 3, 4, 5	Ground

Maximum Ratings

Parameter	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	25	85
Storage Temperature Range	°C	-40	-	85
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.	F1G2B	
		Rev. Date	2021-10-24	
		Rev.	AS01	1/7

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Specifications

		Minimum	Typical	Maximum
Center Frequency (Fc)	MHz	-	1240.5	-
Insertion Loss (Fc ± 43.5MHz)	dB	-	2.5	3.8
Amplitude Ripple (Fc ± 43.5MHz)	dB	-	1.3	2.6
Group Delay Variation(Fc ± 43.5MHz)	nsec	-	15	25
Maximum VSWR				
Input Port (Fc ± 43.5MHz)		-	1.8	2.2
Output Port (Fc ± 43.5MHz)		-	1.7	2.2
Absolute Attenuation				
50~1100.0 MHz	dB	18	24	-
1350~1450.0 MHz	dB	20	32	-
1450~3000.0 MHz	dB	28	32	-
Input/Output Impedance	Ohms	-	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

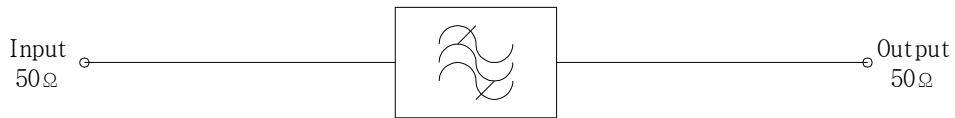
	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F1G2B	
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Matching Schematic

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



Marking Configuration


- ¹⁾
I ²⁾
1G2B ³⁾

1) Pad Number 1 Index

2) Manufacturer name

3) Part Number

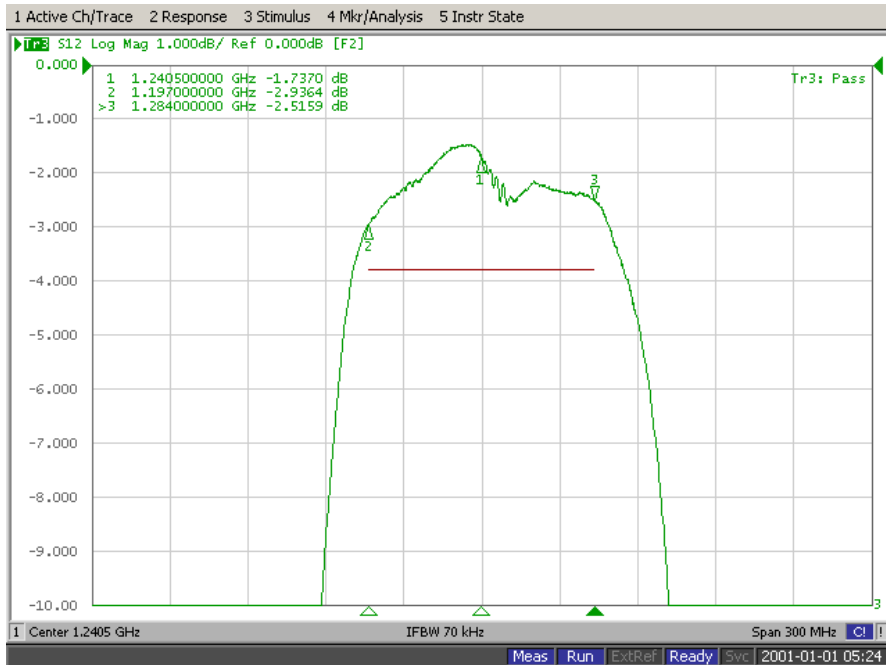
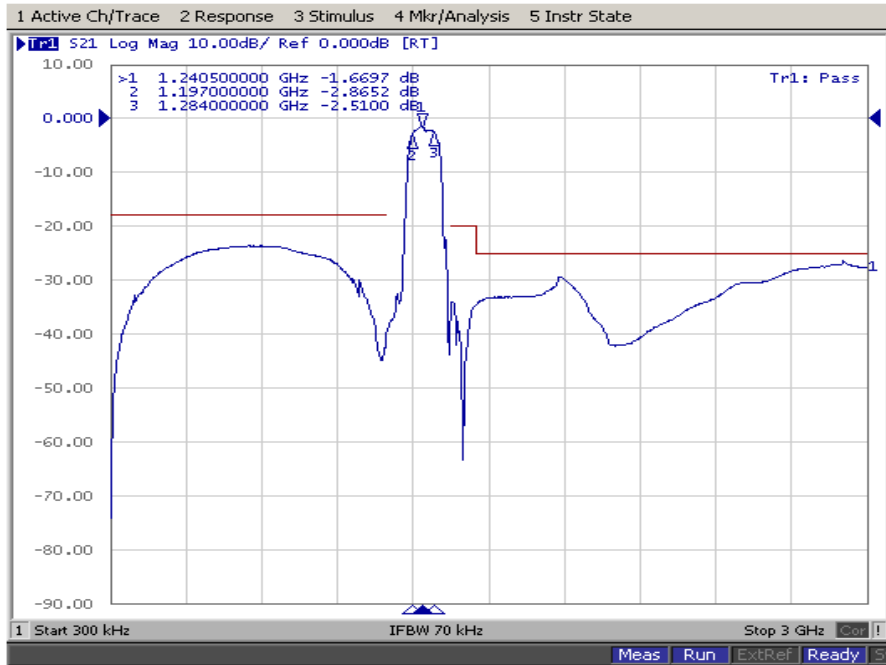
* Ink or Laser Marking available

 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F1G2B	
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Typical Performance (at 25°C)



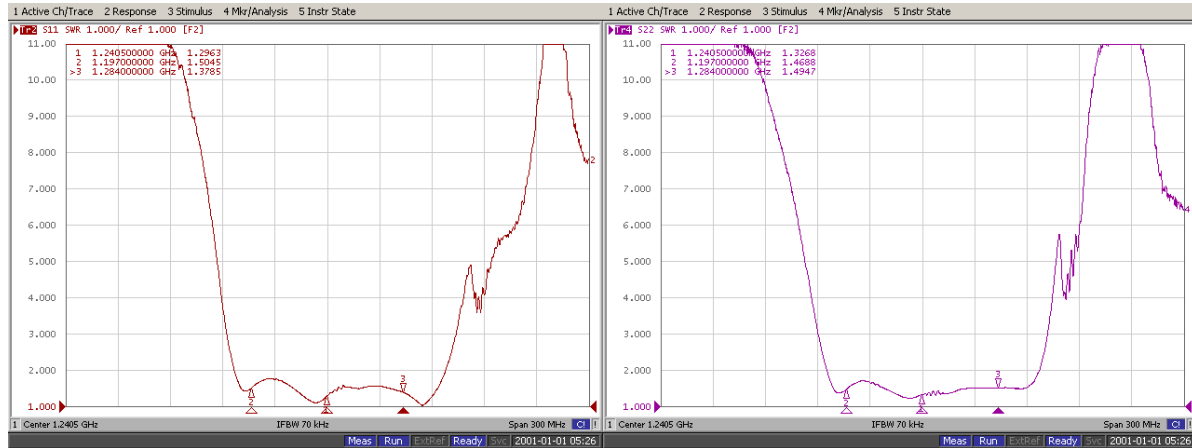
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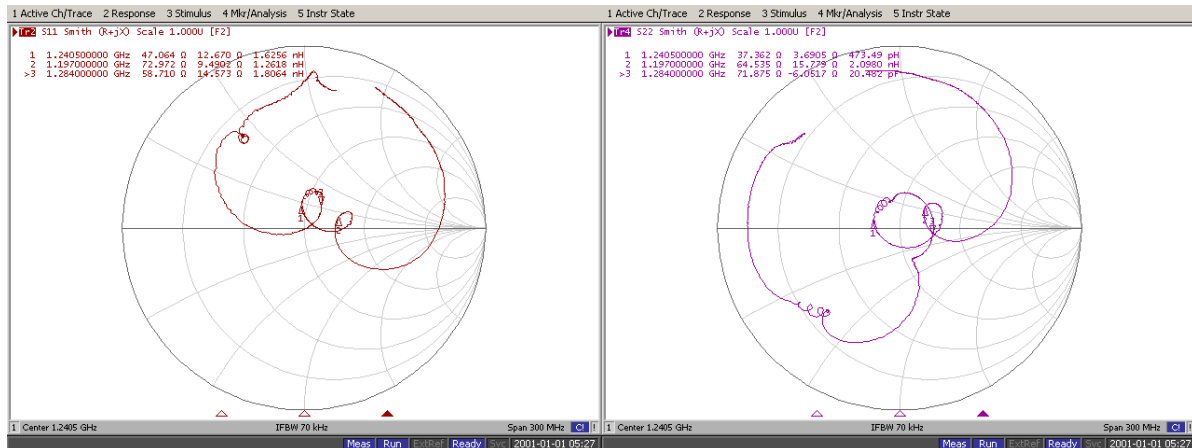
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Input / Output VSWR Charts



Input / Output Smith Charts



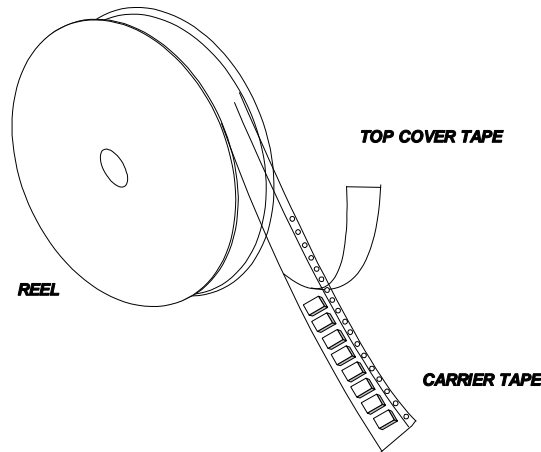
Packing Specification

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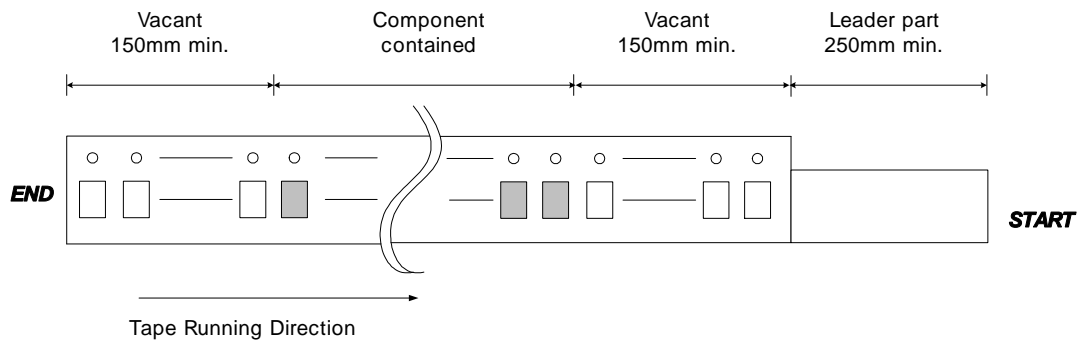


1. Reeling Quantity : 1000 pcs / reel
2. Taping Structure : The tape shall be wound around the reel in the direction shown below.



Tape Specification

1. Leader part and vacant position specification

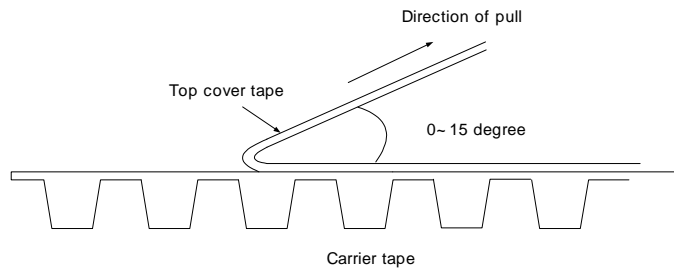


2. Tensile strength of carrier tape

4.4N/mm width

3. Top cover tape adhesion

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

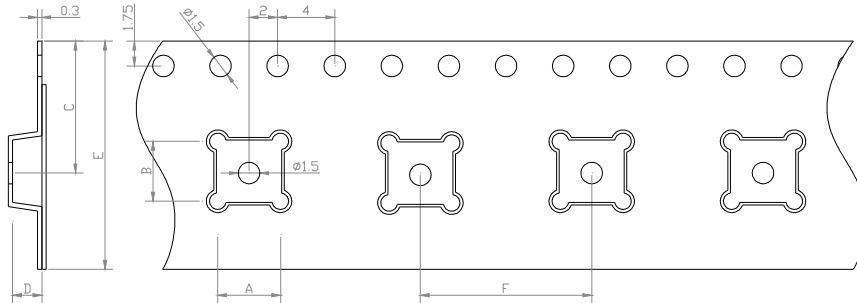


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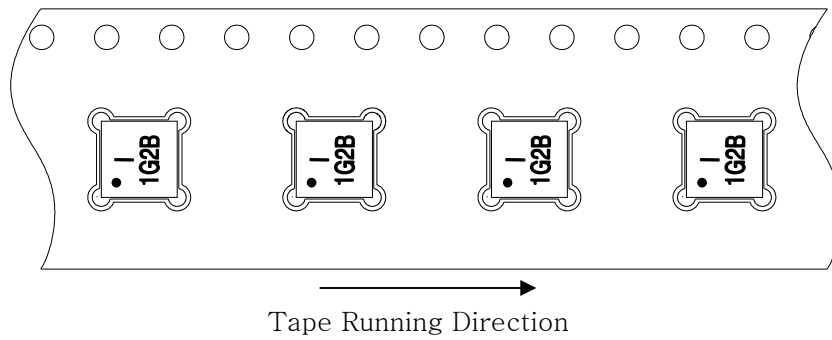


Carrier Tape Dimensions [unit : mm]

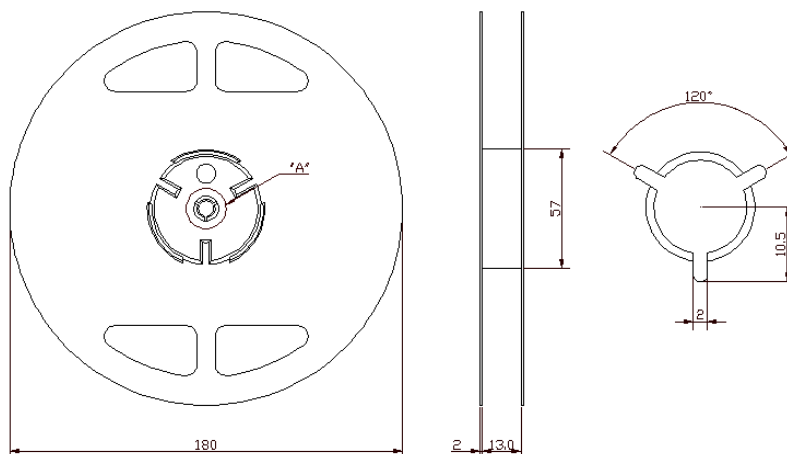



A	3.40 ± 0.1
B	3.40 ± 0.1
C	7.25 ± 0.1
D	1.70 ± 0.1
E	12.00 ± 0.1
F	8.00 ± 0.1

Part Direction



Reel Dimensions [unit : mm]



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