

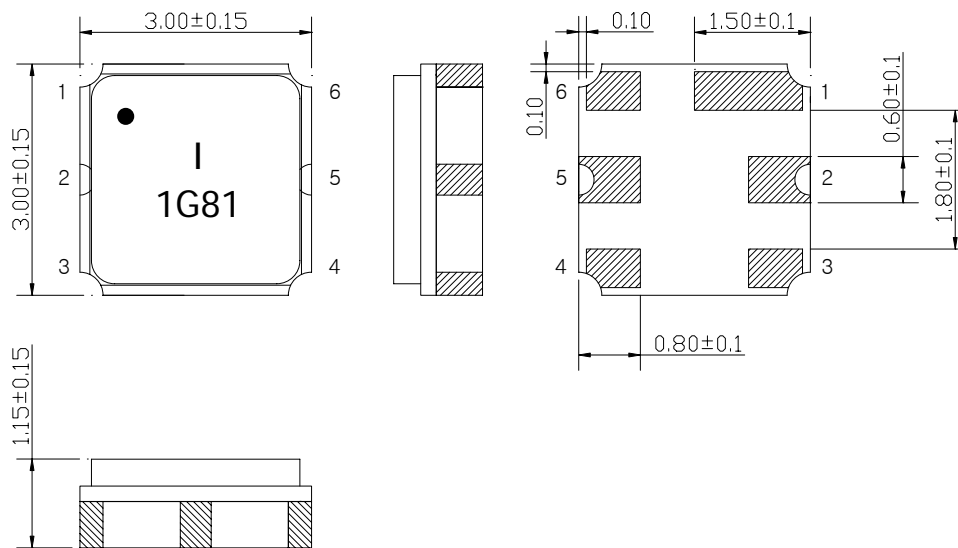
SAW Bandpass Filter F1G81



Features

- K-PCS applications
- Usable bandwidth of 30 MHz
- No impedance matching require for operation at 50 Ω
- Ceramic Surface Mounted Device Package (3.0 mm × 3.0 mm)
- Single-ended Operation
- RoHS Compliant

Package Dimensions



Dimensions shown are nominal in millimeters

Body : Al₂O₃ Ceramic

Lid : Kovar, Ni Plated

Terminations : Au plating 0.3 ~ 1.0 μm, Over a 1.27 ~ 8.89 μm
Ni Plating

Pin Configurations

2	Input
5	Output
1, 3, 4, 6	Case ground

Maximum Ratings

Parameters	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	25	85
Storage Temperature Range	°C	-30	-	85
Power Handling Capability	dBm	-	-	-

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.	F1G81	
		Rev. Date	2007-05-03	
		Rev.	NF7002-PS01	1/7

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Specifications

	Minimum	Typical	Maximum	Unit
Center Frequency (Fc)	-	1855.0	-	MHz
Insertion Loss (In Fc +/- 15.0 MHz)	-	1.9	3.0	dB
Amplitude Ripple (In Fc +/- 15.0 MHz)	-	0.4	1.2	dBp-p
VSWR (In Fc +/- 15.0 MHz)	-	1.4	2.0	
Relative Attenuation				
1440.0 MHz ~ 1470.0 MHz	25.0	29.0	-	dB
1750.0 MHz ~ 1780.0 MHz	29.0	33.0	-	
1930.0 MHz ~ 1960.0 MHz	30.0	38.0	-	
2240.0 MHz ~ 2270.0 MHz	28.0	31.0	-	
Temperature Range (Operational)	-30	25	85	°C
Input RF Power (In Fc +/- 30.0 MHz)	-	-	-	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

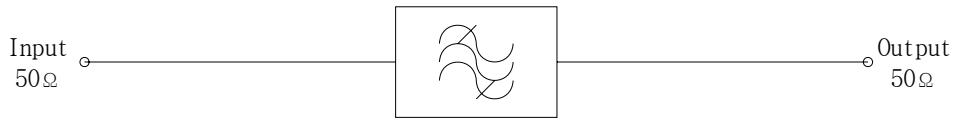
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Matching Schematic

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




Marking Configuration

- ¹⁾
I²⁾
1G81³⁾

- 1) Pad Number 1 Index
- 2) Manufacturer name
- 3) Marking Number

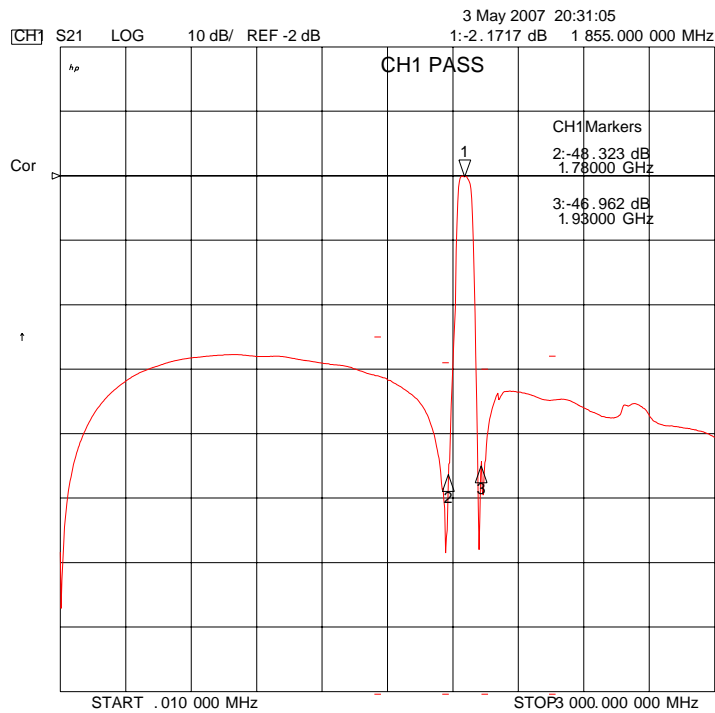
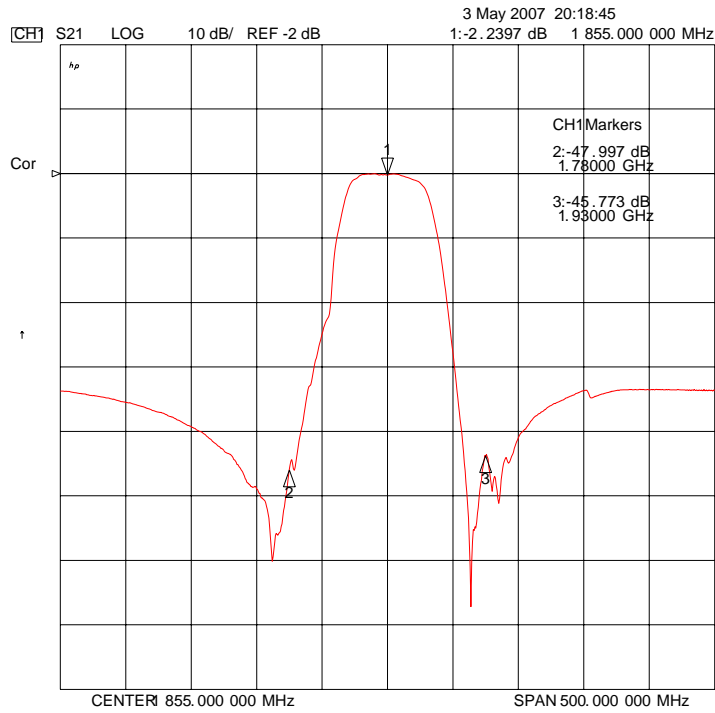
* Ink or Laser Marking available

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Typical Performance (at 25°C)

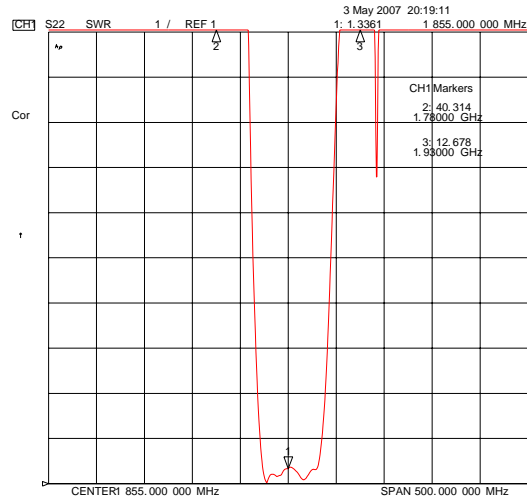
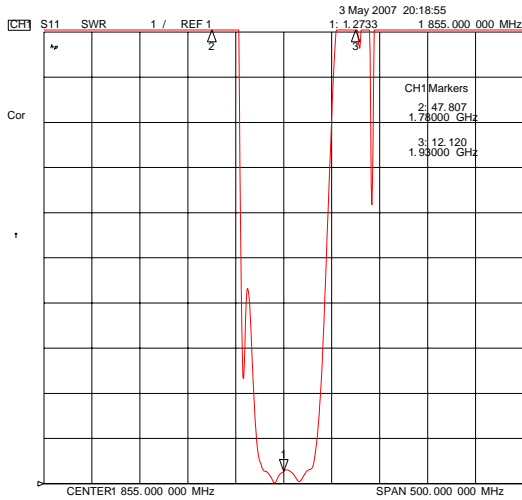


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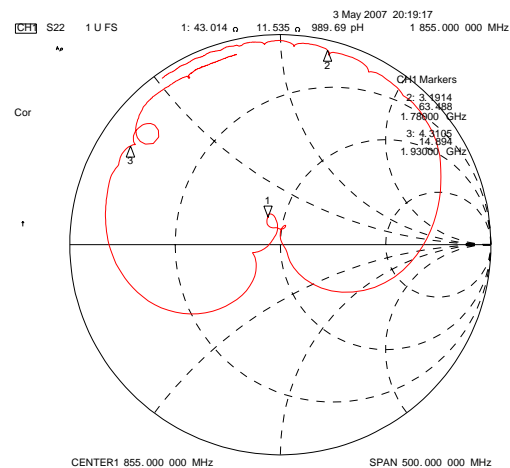
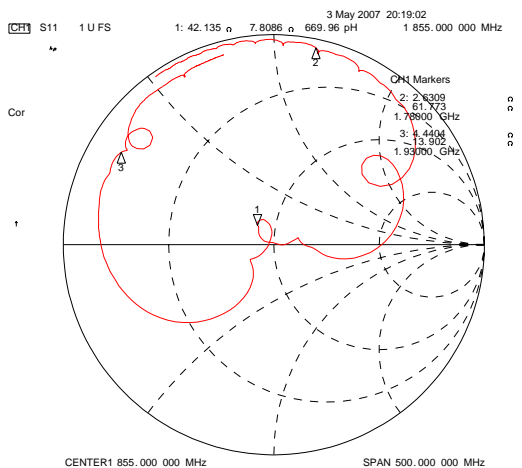
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Input / Output VSWR Charts



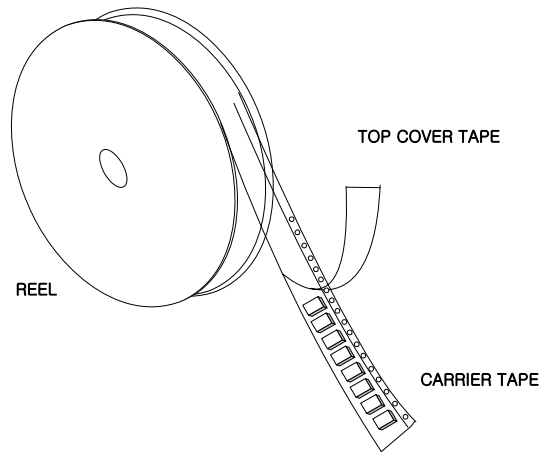
Input / Output Smith Charts



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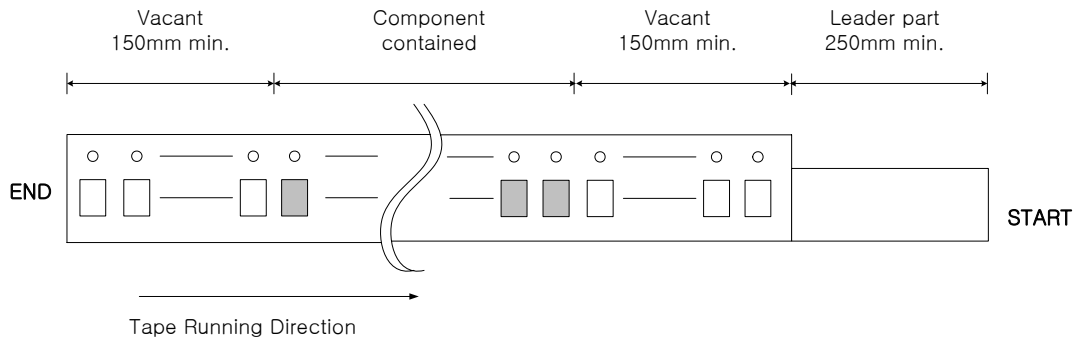
Packing Specification

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

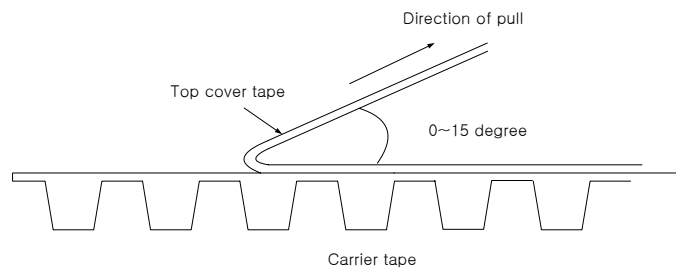



2. Tensile strength of carrier tape

4.4N/mm width

3. Top cover tape adhesion

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

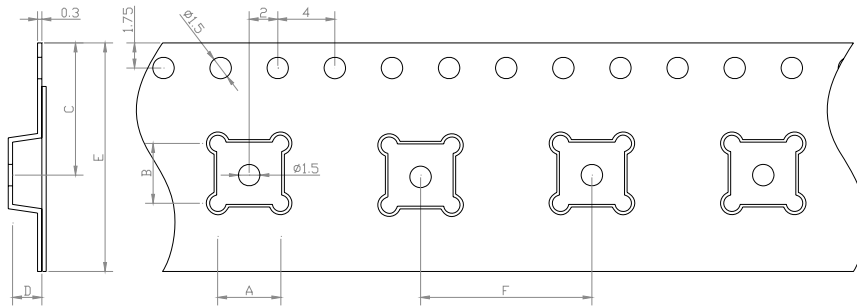


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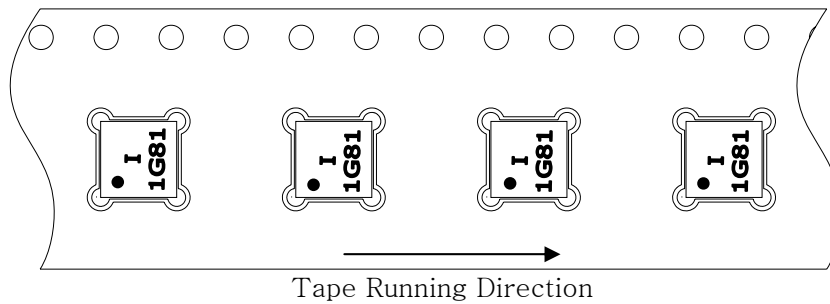


Carrier Tape Dimensions [unit : mm]

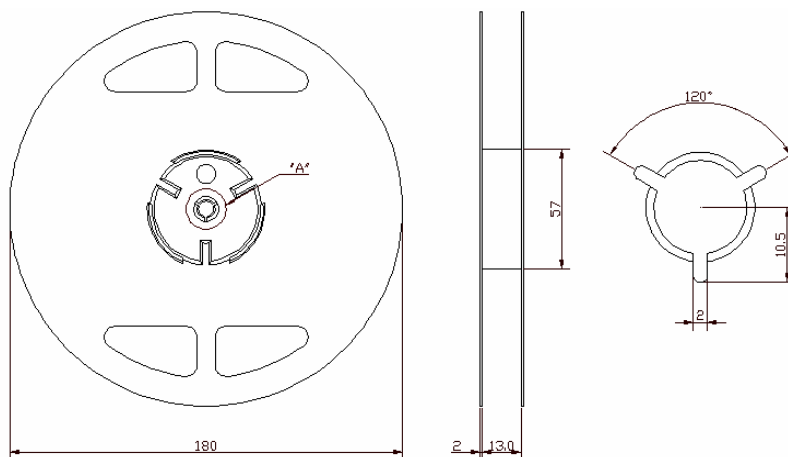



A	3.40 ± 0.1
B	3.40 ± 0.1
C	7.25 ± 0.1
D	1.70 ± 0.1
E	12.00 ± 0.1
F	8.00 ± 0.1

Part Direction



Reel Dimensions [unit : mm]



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