

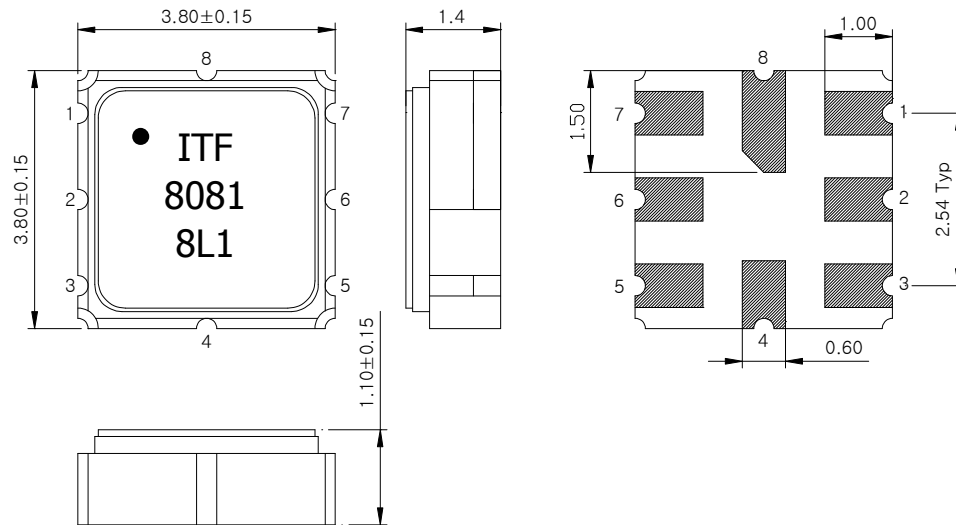
SAW Bandpass Filter F8081



Features

- RF bandpass filter
- Usable bandwidth 4 MHz (806 MHz ~ 810 MHz)
- High attenuation
- No matching 50Ω single-ended operation
- Ceramic Surface Mounted Device Package (3.8 mm × 3.8 mm)
- RoHS 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 Configurations

2	Input
6	Output
1, 3, 4, 5, 7, 8	Case ground

Maximum Ratings

Parameters	Unit	Minimum	Typical	Maximum
Operating Temperature Range	℃	-10	25	60
Storage Temperature Range	℃	-40	-	85
Power Handling Capability	dBm	-	-	15

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.	F8081	
		Rev. Date	2008-12-19	
		Rev.	NC8013-AS01	1/7

SAW Bandpass Filter F8081




Specifications

	Minimum	Typical	Maximum	Unit
Center Frequency (Fc)	-	808.0	-	MHz
Insertion Loss (In Fc +/- 2.0 MHz)	-	2.6	4.2	dB
Amplitude Ripple (In Fc +/- 2.0 MHz)	-	0.3	2.0	dB
VSWR (In Fc +/- 2.0 MHz)	-	1.4	2.2	
Relative Attenuation				
10.0 MHz ~ 735.0 MHz	40	60	-	dB
735.0 MHz ~ 768.0 MHz	35	57	-	
843.0 MHz ~ 865.0 MHz	35	53	-	
865.0 MHz ~ 885.0 MHz	37	55	-	
885.0 MHz ~ 1000.0 MHz	40	55	-	
Temperature Range (Operational)	-10	25	60	°C
Input RF Power (In Fc +/- 2.0 MHz)			15	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

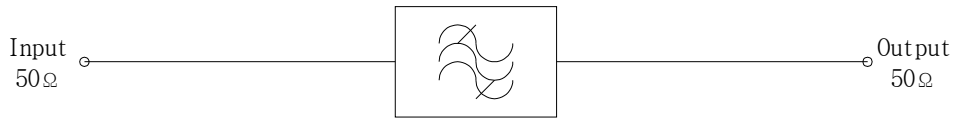
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		Rev. Date	2008-12-19	
		Rev.	NC8013-AS01	2/7

SAW Bandpass Filter F8081



Matching Schematic

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



Marking Configuration

- ¹⁾
ITF²⁾
8081³⁾
8L1⁴⁾


1) Pad Number 1 Index

2) Manufacturer name

3) Marking Number

4) Lot Number

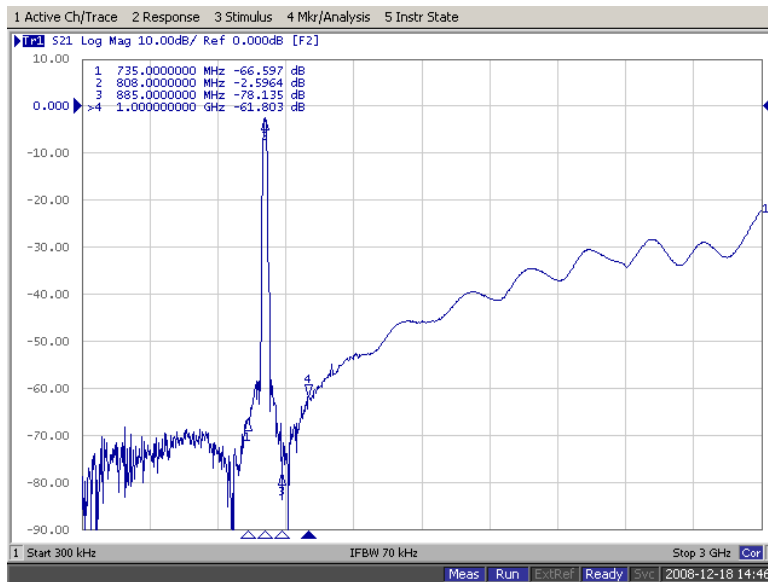
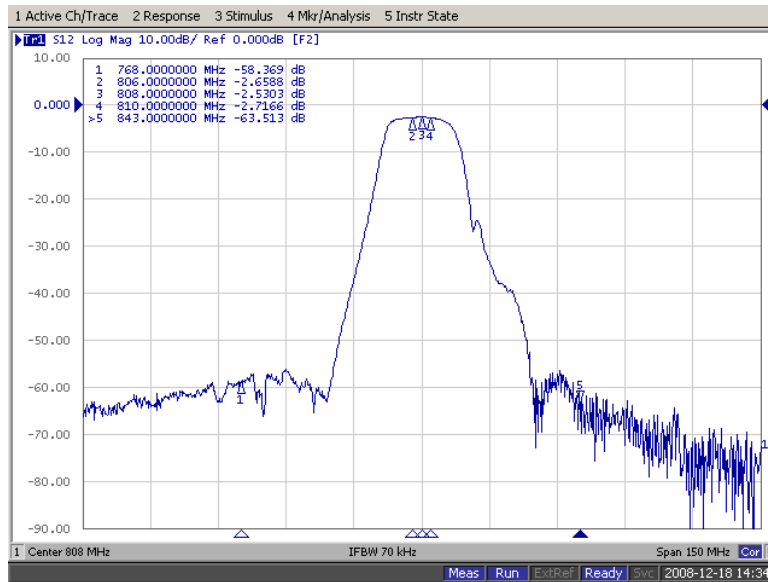
Ink or Laser Marking available

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		Rev. Date	2008-12-19	
		Rev.	NC8013-AS01	3/7

SAW Bandpass Filter F8081



Typical Performance (at 25°C)

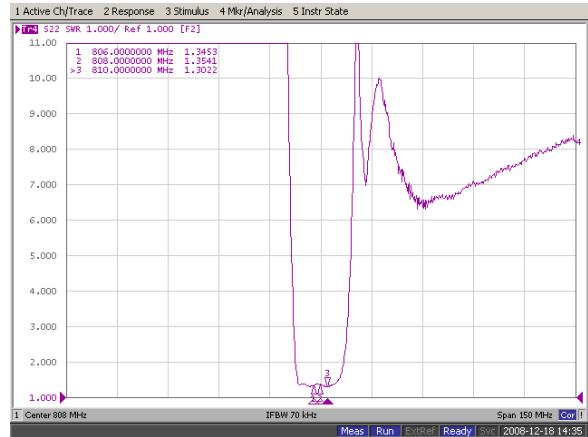
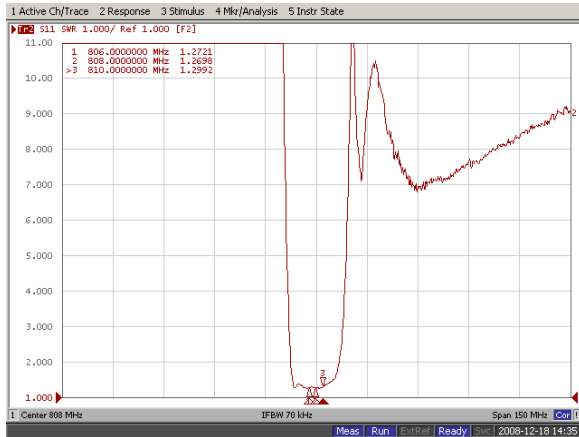


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		Rev. Date	2008-12-19	
		Rev.	NC8013-AS01	4/7

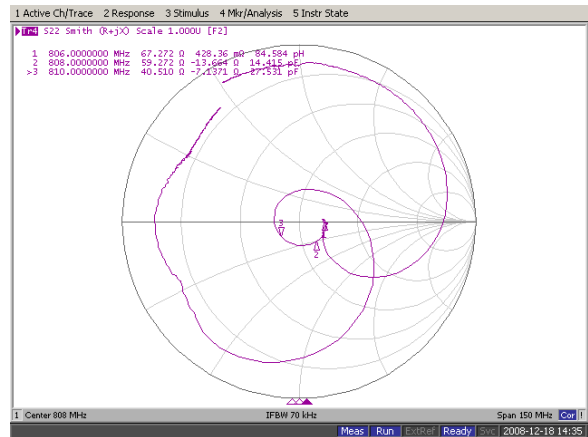
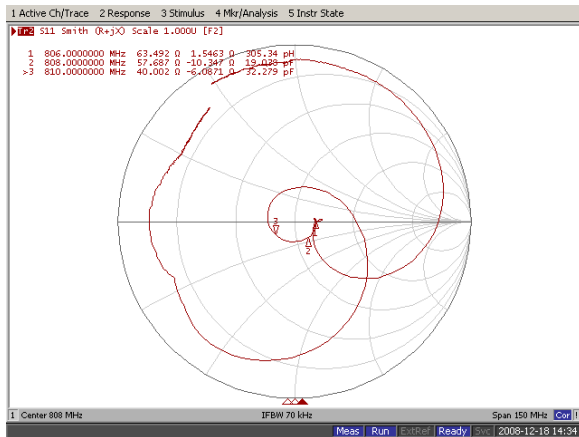
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Input / Output VSWR Charts



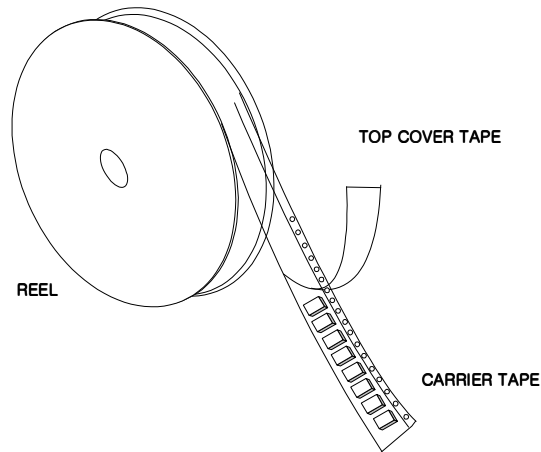
Input / Output Smith Charts



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		Rev. Date	2008-12-19	
		Rev.	NC8013-AS01	5/7

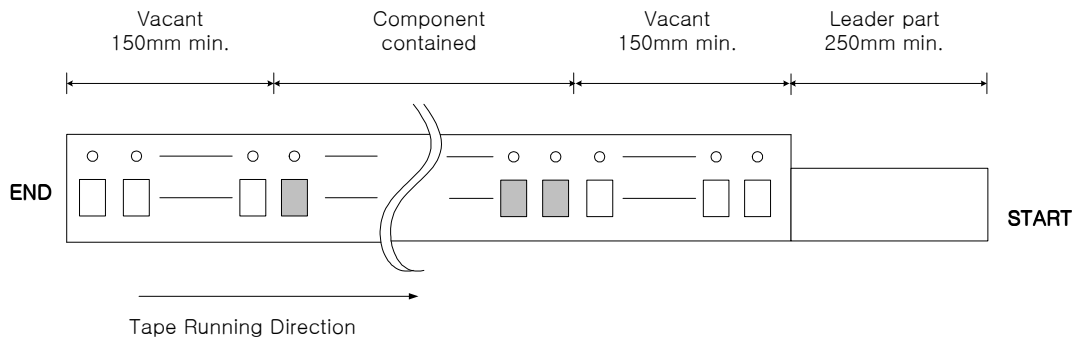
Packing Specification

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

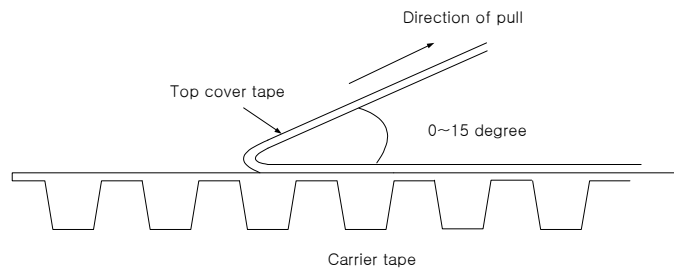



2. Tensile strength of carrier tape

4.4N/mm width

3. Top cover tape adhesion

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

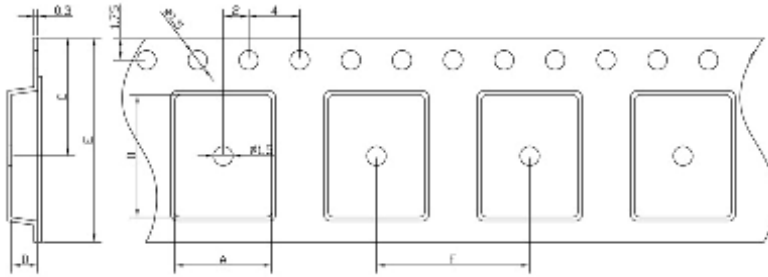


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		Rev.	NC8013-AS01	6/7

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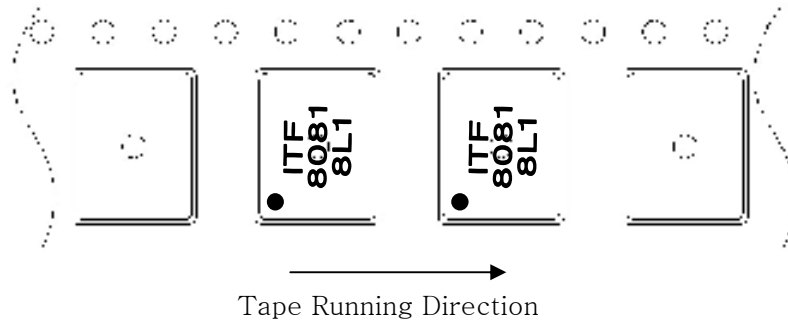


Carrier Tape Dimensions [unit : mm]

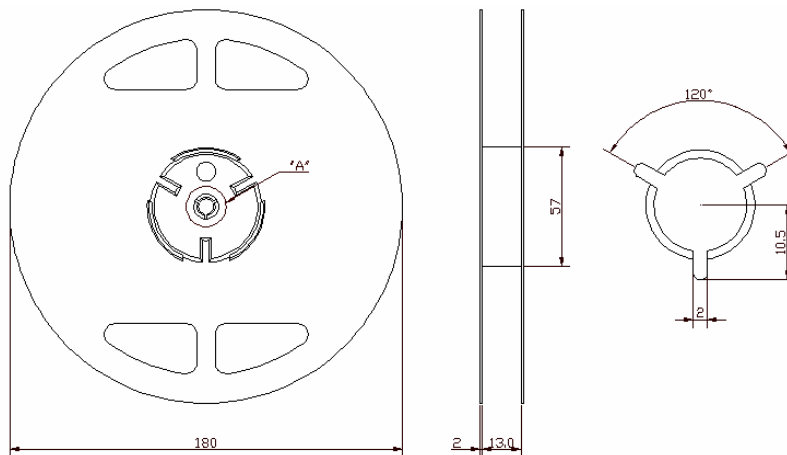


A	4.30 ± 0.1
B	4.30 ± 0.1
C	7.25 ± 0.1
D	1.70 ± 0.1
E	12.00 ± 0.1
F	8.00 ± 0.1

Part Direction



Reel Dimensions [unit : mm]



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