

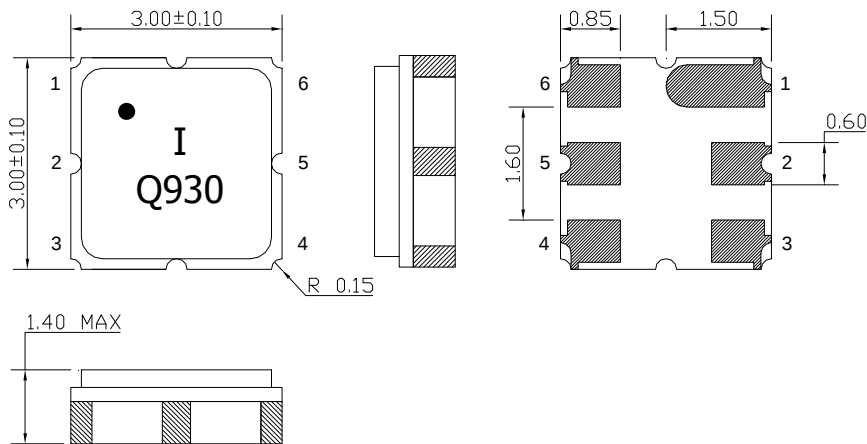
SAW Bandpass Filter F9306



Features

- RF bandpass filter
- High attenuation
- No matching 50Ω single-ended operation
- Ceramic Surface Mounted Device (SMD) Package (3.0 mm * 3.0 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 Configuration	
2	Input
5	Output
1, 3, 4, 6	Case ground

Maximum Ratings

Parameter	Unit	Minimum	Typical	Maximum
Operating Temperature Range	℃	-10	25	60
Storage Temperature Range	℃	-45	25	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.	F9306	
		Rev. Date	2012-02-21	
		Rev.	NSNB02-AS01	1/7

SAW Bandpass Filter F9306



Specifications

$F_c = 930.5 \text{ MHz}$

	Minimum	Typical	Maximum	Unit
Center Frequency (F_c)	-	930.5	-	MHz
Insertion Loss (In $F_c \pm 2 \text{ MHz}$)	-	1.5	3.0	dB
Amplitude Ripple (In $F_c \pm 2 \text{ MHz}$)	-	0.3	1.5	dBp-p
Relative Attenuation				
200 MHz ~ 880 MHz	40	50	-	dB
990 MHz ~ 1400 MHz	40	50	-	
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

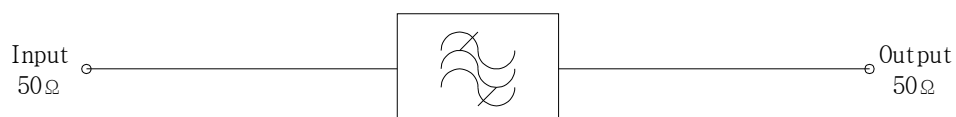
 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F9306	
		Rev. Date	2012-02-21	
		Rev.	NSNB02-AS01	2/7

SAW Bandpass Filter F9306



Matching Schematic

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



Marking Configuration

1)
●
I 2)
Q930³⁾

1) Pad Number 1 Index

2) Manufacturer name

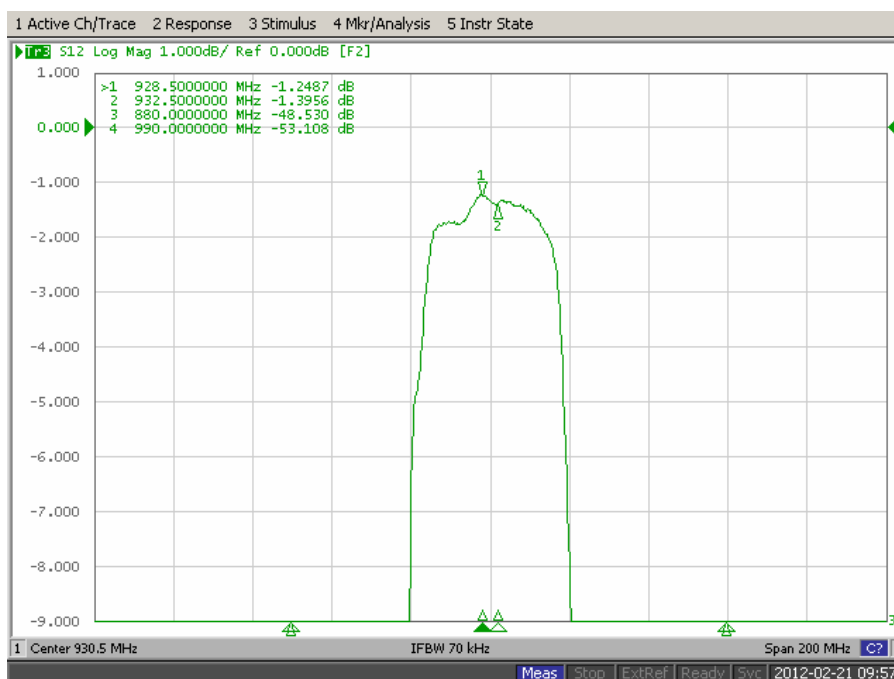
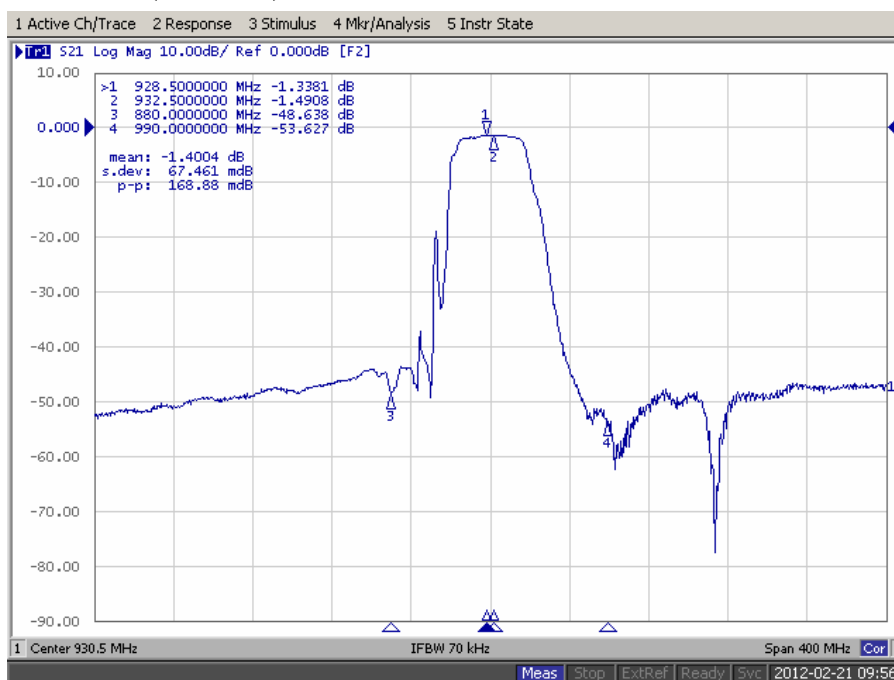
3) Marking Number

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		Rev. Date	2012-02-21	
		Rev.	NSNB02-AS01	3/7

SAW Bandpass Filter F9306



Typical Performance (at 25 °C)

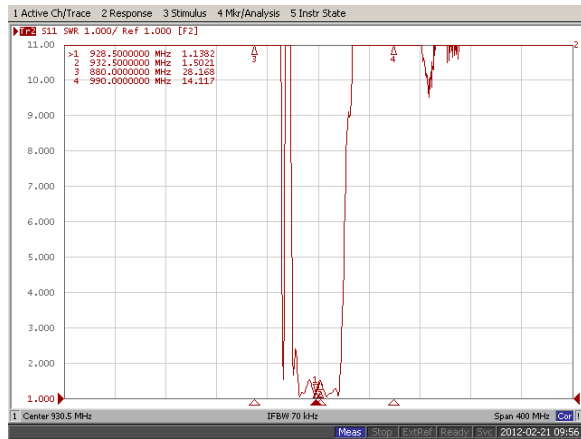


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		Rev. Date	2012-02-21	
		Rev.	NSNB02-AS01	4/7

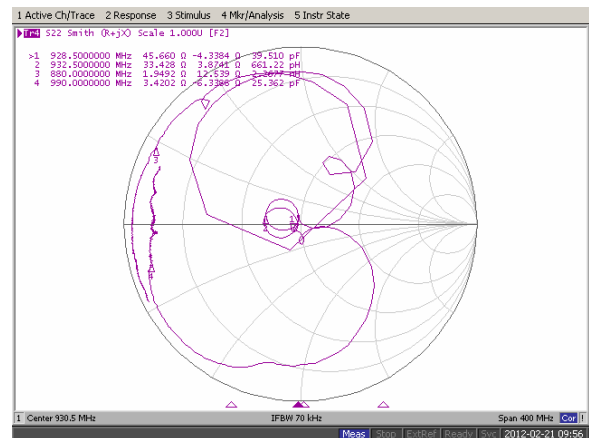
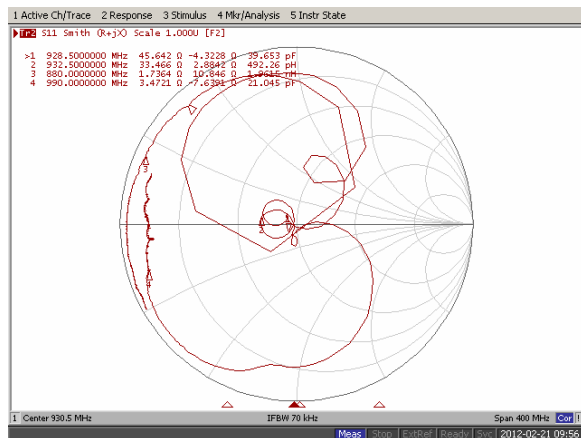
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Input / Output VSWR Charts



Input / Output Smith Charts



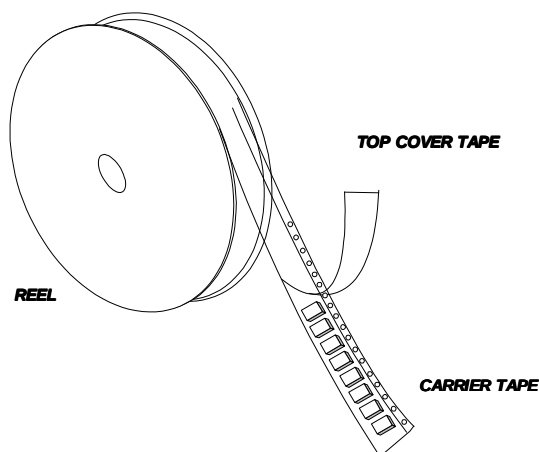
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			Rev. Date		2012-02-21	
			Rev.		NSNB02-AS01	5/7

SAW Bandpass Filter F9306



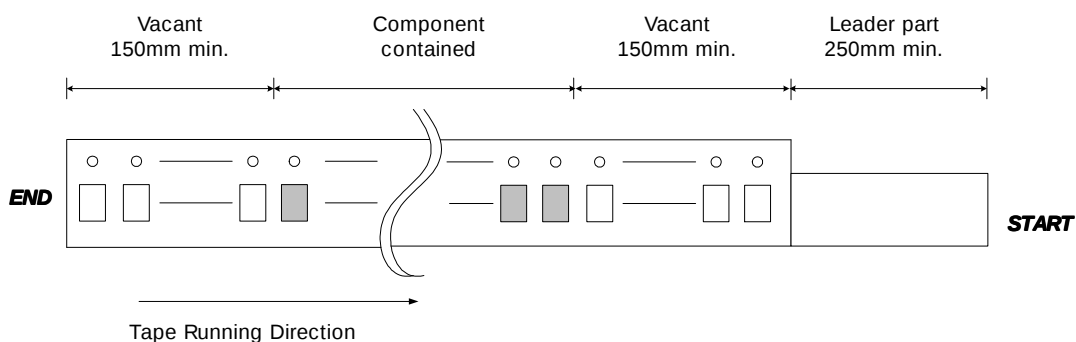
Packing Specification

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

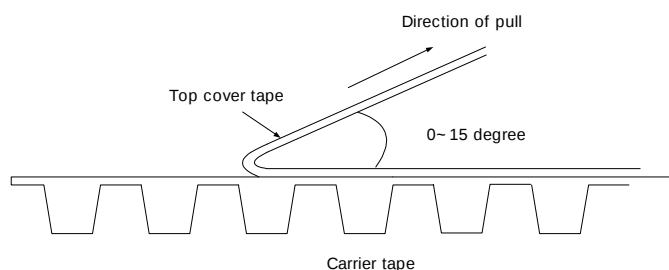


2. Tensile strength of carrier tape

4.4N/mm width

3. Top cover tape adhesion

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

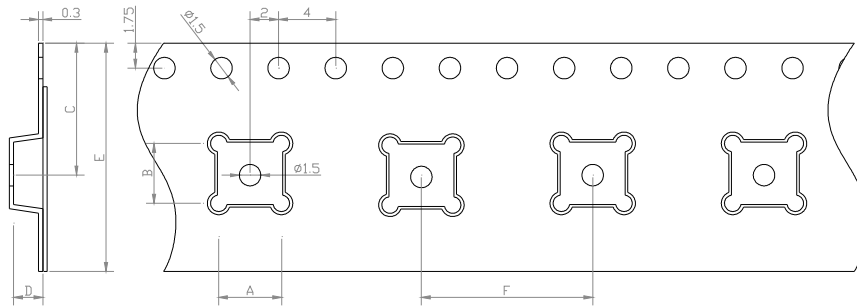


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SAW Bandpass Filter F9306

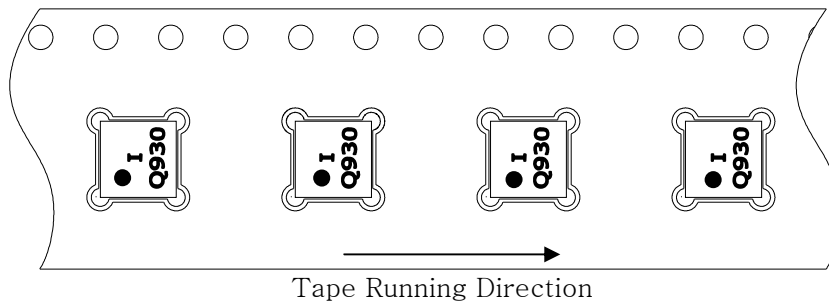


Carrier Tape Dimensions [unit : mm]

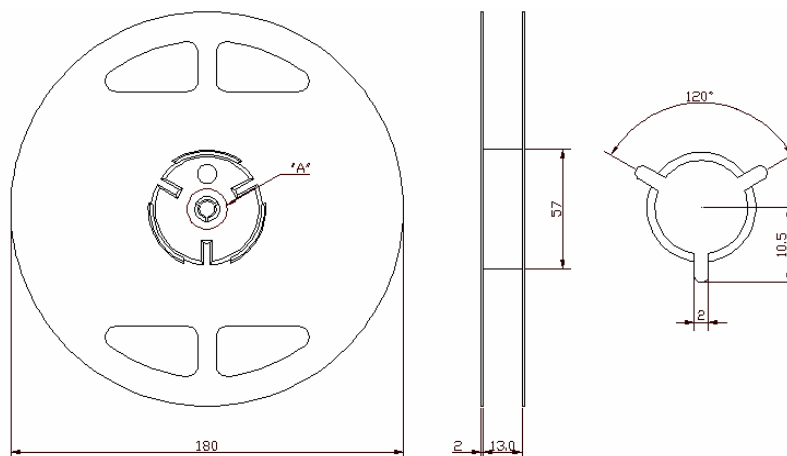


A	3.40 ± 0.1
B	3.40 ± 0.1
C	7.25 ± 0.1
D	1.70 ± 0.1
E	12.00 ± 0.1
F	8.00 ± 0.1

Part Direction



Reel Dimensions [unit : mm]



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