

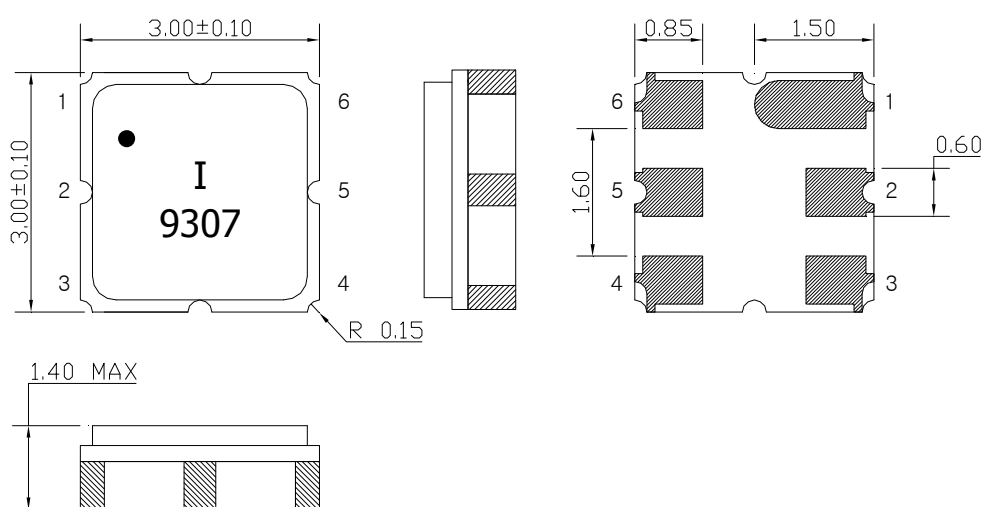
SAW Bandpass Filter F9307



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	℃	0	25	70
Storage Temperature Range	℃	-30	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.	F9307	
		Rev. Date	2014-04-16	
		Rev.	AS 01	1/7

SAW Bandpass Filter F9307



Preliminary Specifications

$F_c = 930 \text{ MHz}$

	Minimum	Typical	Maximum	Unit
Center Frequency (F_c)	-	930	-	MHz
Insertion Loss (920 ~ 940 MHz)	-	2.7	3.0	dB
Insertion Loss (925 ~ 938 MHz)	-	1.5	2.5	
Amplitude Ripple (920 ~ 940 MHz)	-	1.5	2.0	dB p-p
Amplitude Ripple (925 ~ 938 MHz)	-	0.8	1.5	
VSWR (920 ~ 940 MHz)	-	1.7	2.0	
VSWR (925 ~ 938 MHz)	-	1.7	2.0	
Attenuation			-	dB
0.3 ~ 890 MHz	25	29	-	
970 ~ 2000 MHz	25	32	-	
			-	
			-	
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

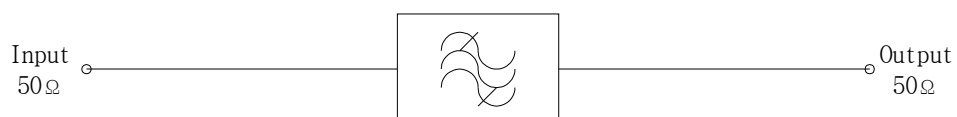
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		Rev. Date	2014-04-16	
		Rev.	AS 01	2/7

SAW Bandpass Filter F9307



Matching Schematic

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



Marking Configuration

●¹⁾
I²⁾
9307³⁾

1) Pad Number 1 Index

2) Manufacturer name

3) Marking Number

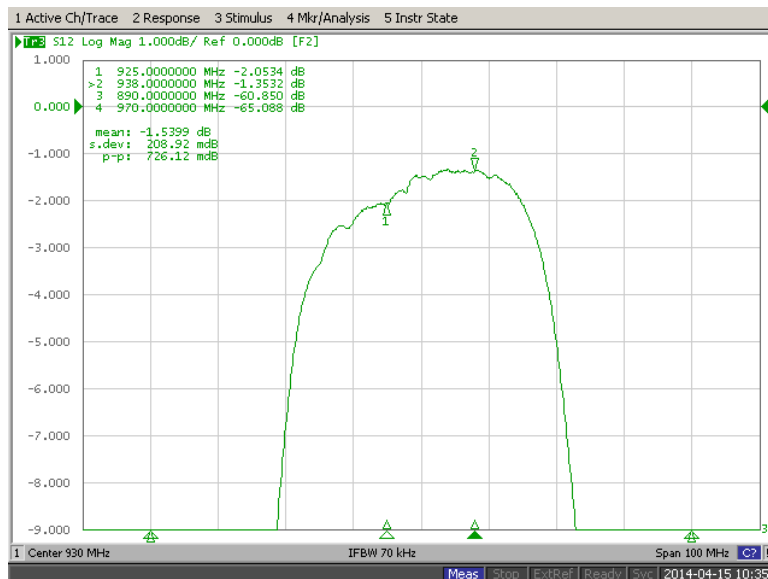
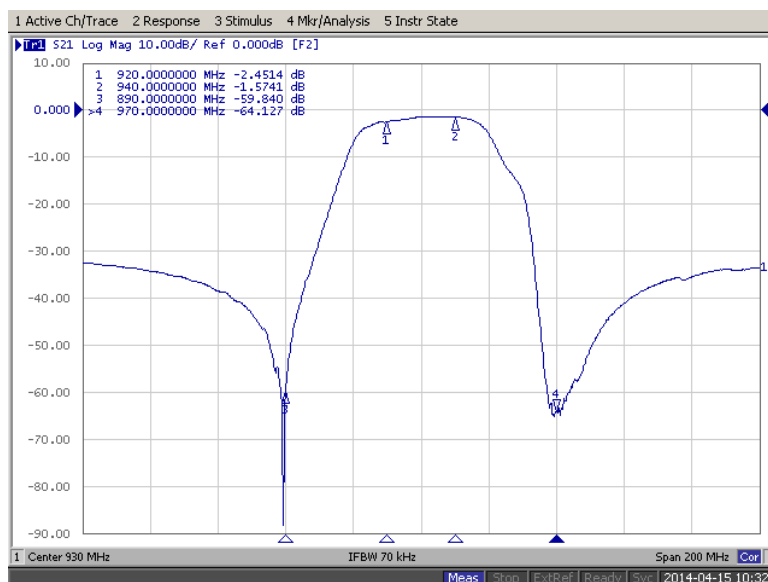
* Ink or Laser Marking available

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		Rev. Date	2014-04-16	
		Rev.	AS 01	3/7

SAW Bandpass Filter F9307



Typical Performance (at 25℃)

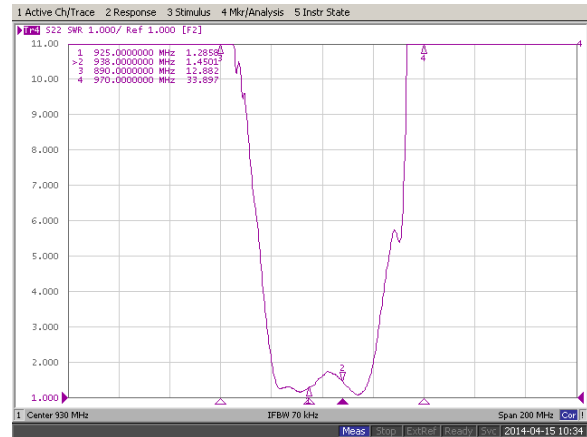
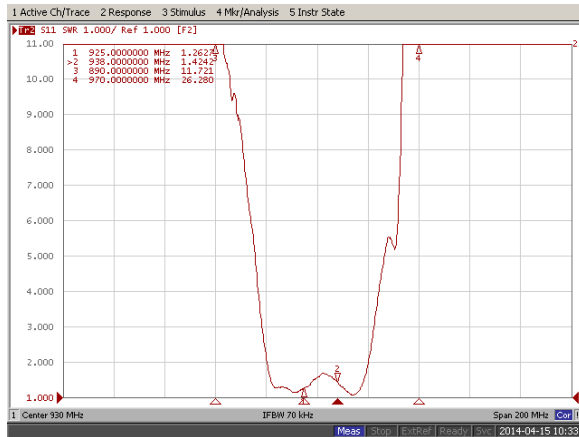


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		Rev. Date	2014-04-16	
		Rev.	AS 01	4/7

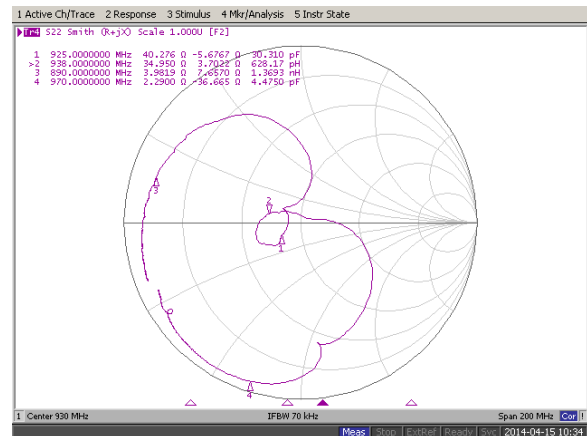
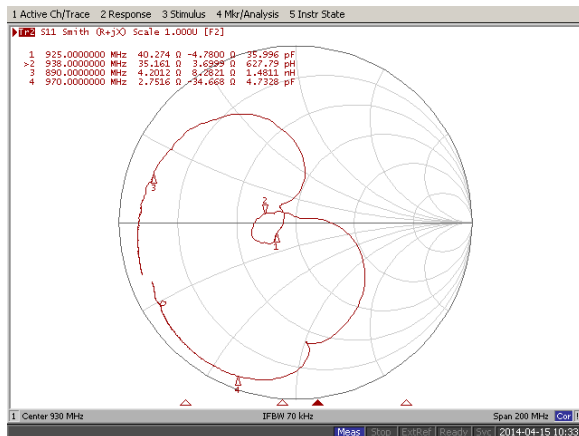
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Input / Output VSWR Charts



Input / Output Smith Charts



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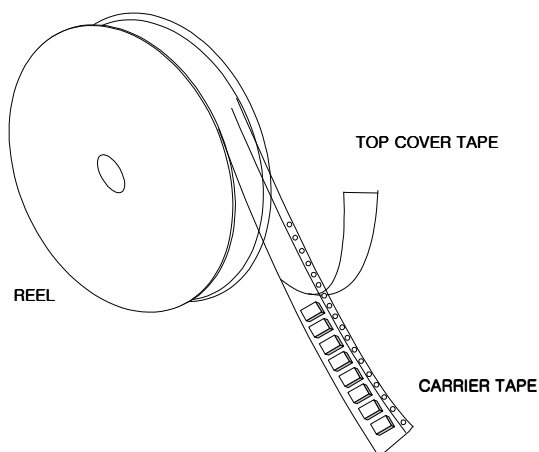
5/7

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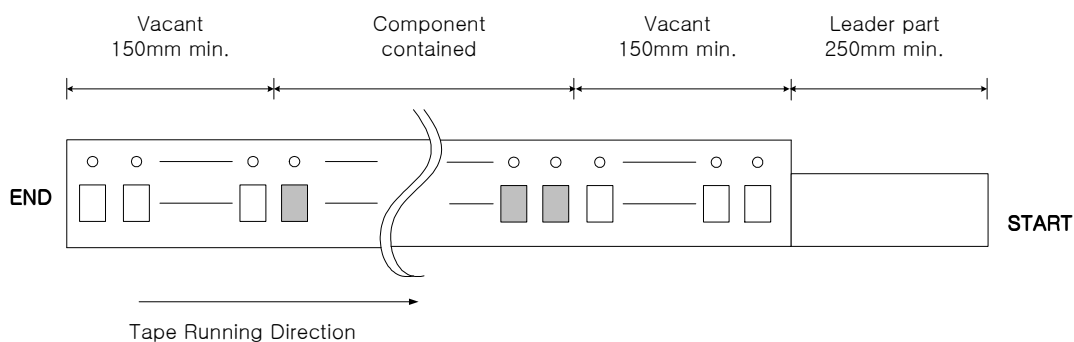
Packing Specifications

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

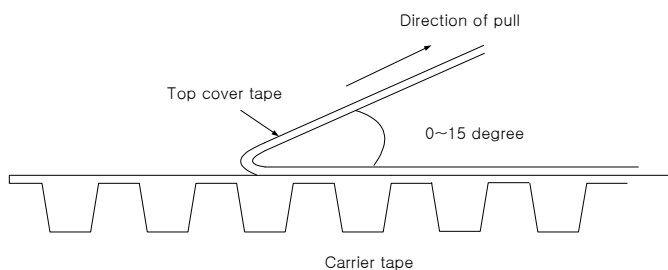


2. Tensile strength of carrier tape

4.4N/mm width

3. Top cover tape adhesion

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

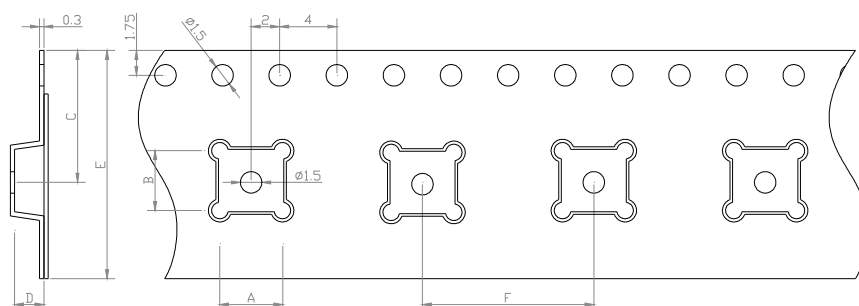


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		Rev.	AS 01	6/7

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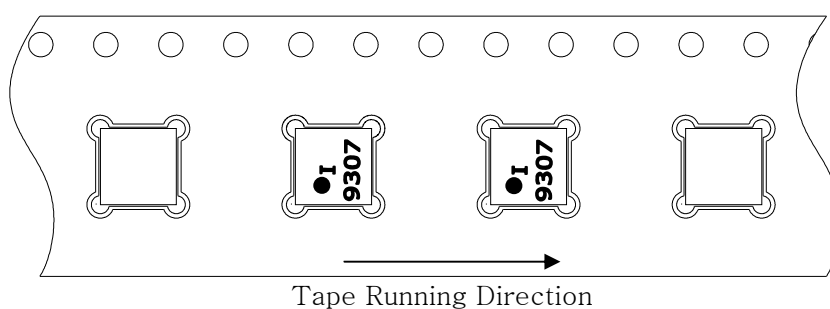


Carrier Tape Dimensions [unit : mm]

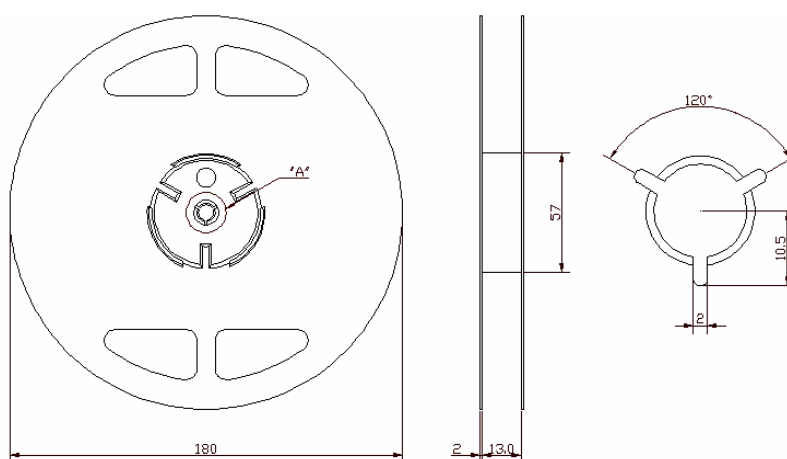


A	3.40 ± 0.1
B	3.40 ± 0.1
C	7.25 ± 0.1
D	1.70 ± 0.1
E	12.00 ± 0.1
F	8.00 ± 0.1

Part Direction



Reel Dimensions [unit : mm]



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		Rev.	AS 01	7/7