

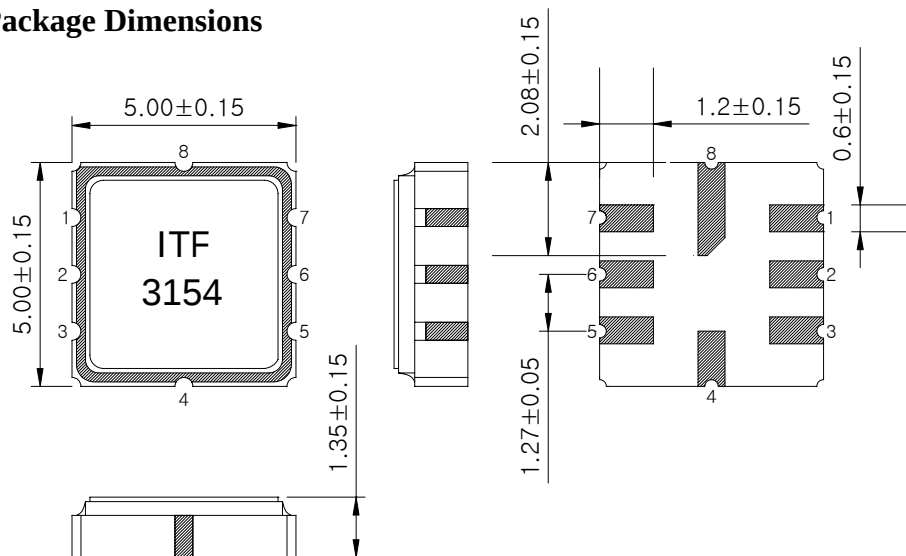
SAW Bandpass Filter F3154



Features

- RF bandpass filter
- High attenuation
- Usable bandwidth 4MHz
- No matching 50Ω single-ended operation
- Ceramic Surface Mounted Device (SMD) Package

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

Maximum Ratings

Parameter	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-10	25	60
Storage Temperature Range	°C	-40	-	85
Power Handling Capability	dBm	-	-	-

Electrostatics Sensitive Device (ESD)

 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F3154	
		Rev. Date	2004-04-12	
		Rev.	NS3001-AS01	1/7

SAW Bandpass Filter F3154



Specifications

$F_c = 315.0\text{MHz}$

Terminating source impedance : 50Ω

Terminating load impedance : 50Ω

		Minimum	Typical	Maximum
Center Frequency (F_c)	MHz	-	315.0	-
Insertion Loss ($F_c \pm 2.0\text{ MHz}$)	dB	-	2.5	3.5
Amplitude Ripple ($F_c \pm 2.0\text{ MHz}$)	dB	-	1.0	1.5
Absolute Group Delay at F_c	nsec	-	150	-
Group Delay Variation ($F_c \pm 2.0\text{ MHz}$)	nsec	-	50	-
VSWR ($F_c \pm 2.0\text{ MHz}$)		-	1.5	2.0
Relative Attenuation ... ~ $F_c - 15\text{ MHz}$ $F_c + 25\text{ MHz}$ ~ ...	dB	45 45	50 50	-
Temperature Coefficient of Frequency	ppm/ $^{\circ}\text{C}$	-	-32	-

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

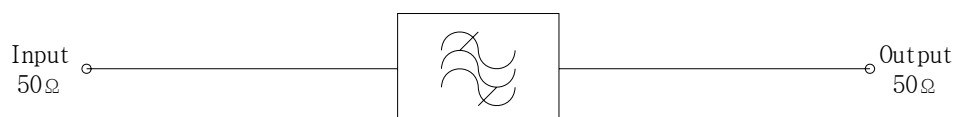
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		Rev. Date	2004-04-12	
		Rev.	NS3001-AS01	2/7

SAW Bandpass Filter F3154



Matching Schematic

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



Marking Configuration

ITF¹⁾

3154²⁾

1) Manufacturer name

2) Marking Number

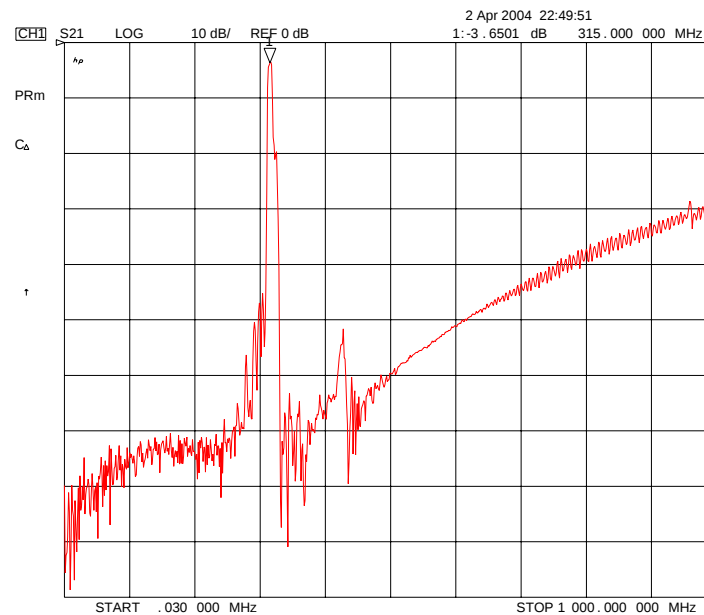
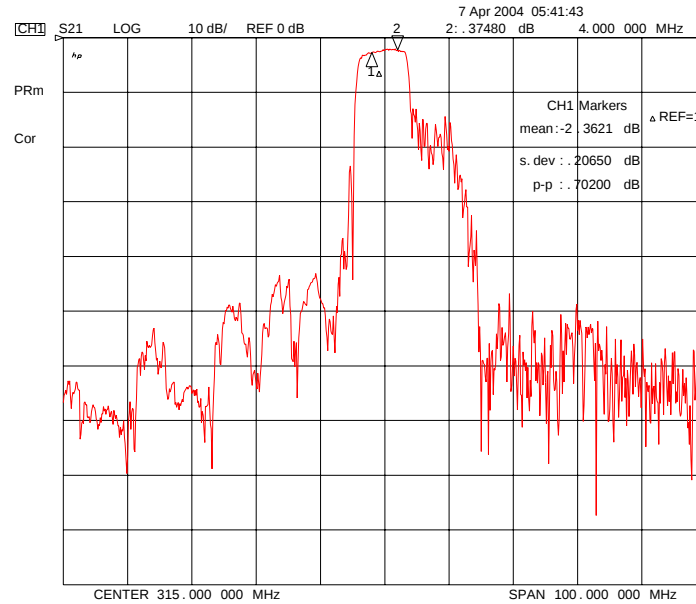
* Ink or Laser Marking available

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		Rev. Date	2004-04-12	
		Rev.	NS3001-AS01	3/7

SAW Bandpass Filter F3154



Typical Performance (at 25 °C)

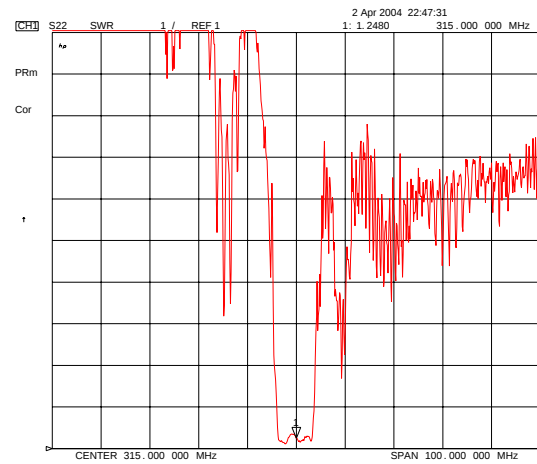
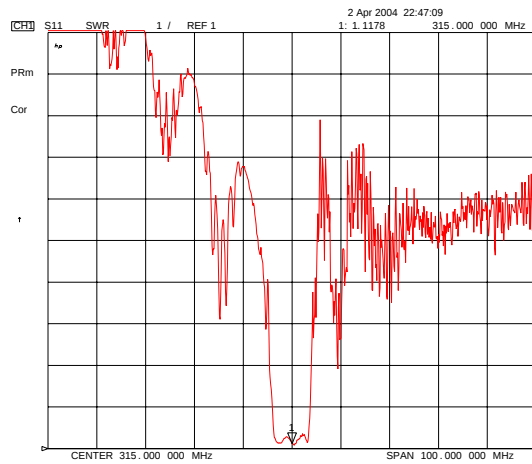


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		Rev. Date	2004-04-12	
		Rev.	NS3001-AS01	4/7

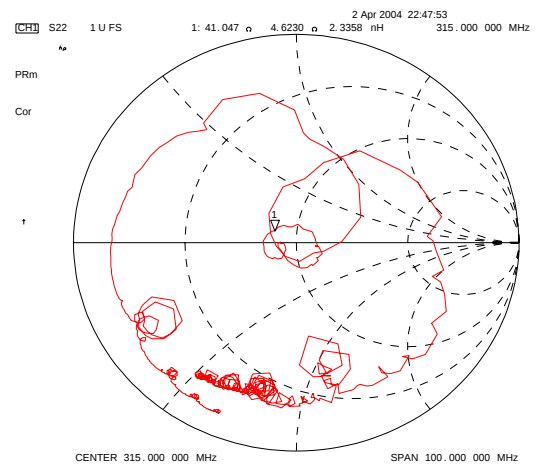
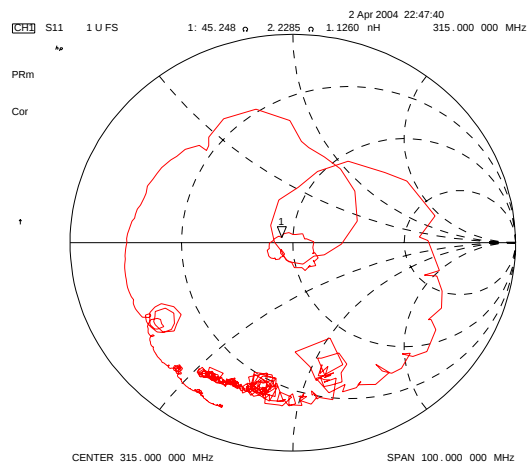
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Input / Output VSWR Charts



Input / Output Smith Charts



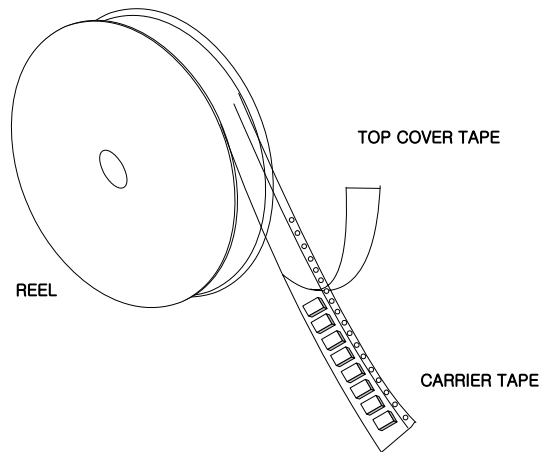
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			Rev. Date	2004-04-12	
			Rev.	NS3001-AS01	5/7

SAW Bandpass Filter F3154



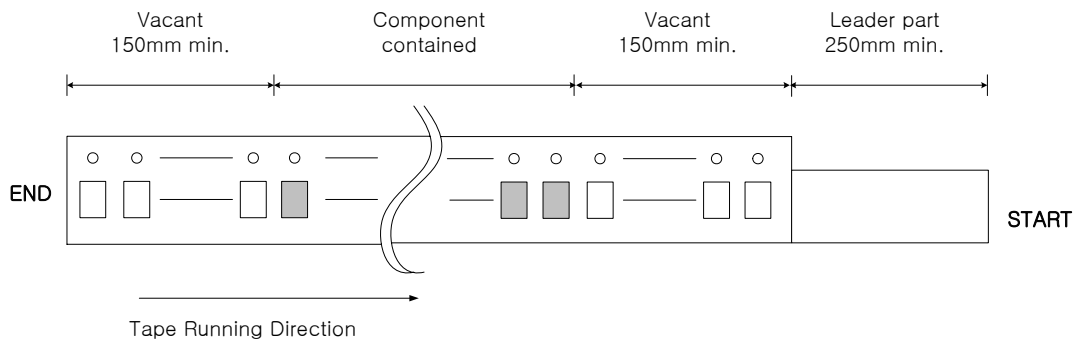
Packing Specification

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

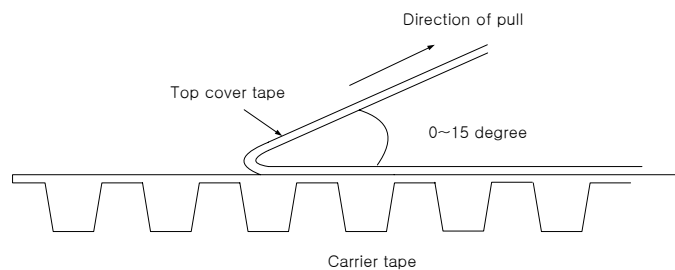


2. Tensile strength of carrier tape

4.4N/mm width

3. Top cover tape adhesion

- 1) pull off angle : $0 \sim 15^\circ$
- 2) speed : 300mm/min
- 3) force : 20~70g

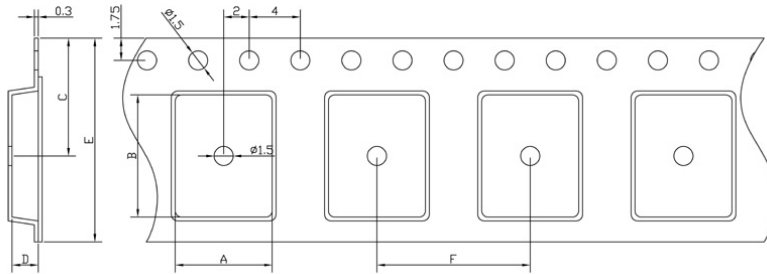


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SAW Bandpass Filter F3154

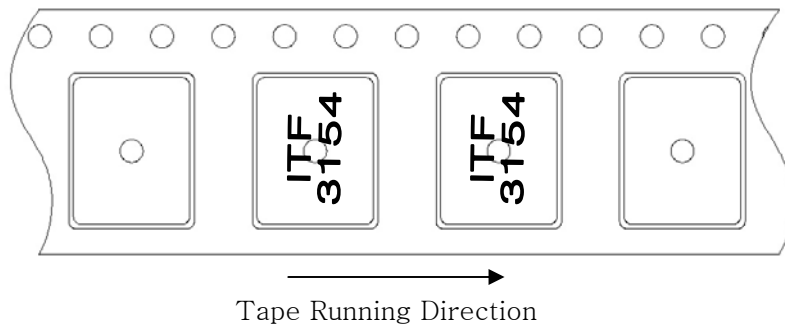


Carrier Tape Dimensions [unit : mm]

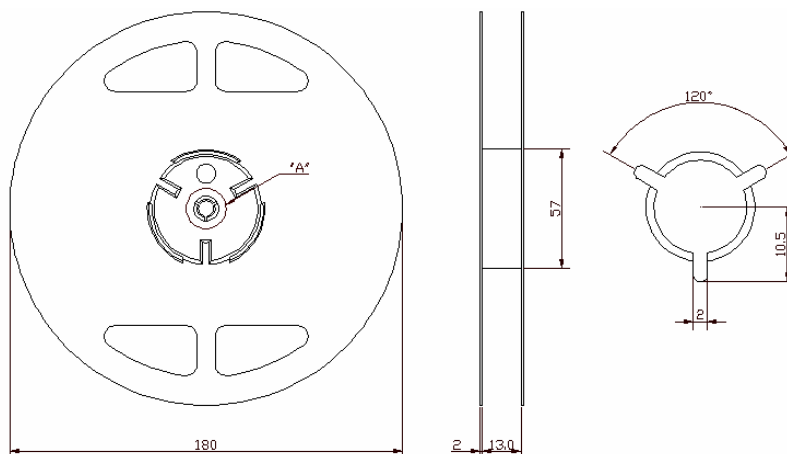


A	5.50 ± 0.1
B	5.50 ± 0.1
C	7.25 ± 0.1
D	1.95 ± 0.1
E	12.00 ± 0.1
F	8.00 ± 0.1

Part Direction



Reel Dimensions [unit : mm]



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