

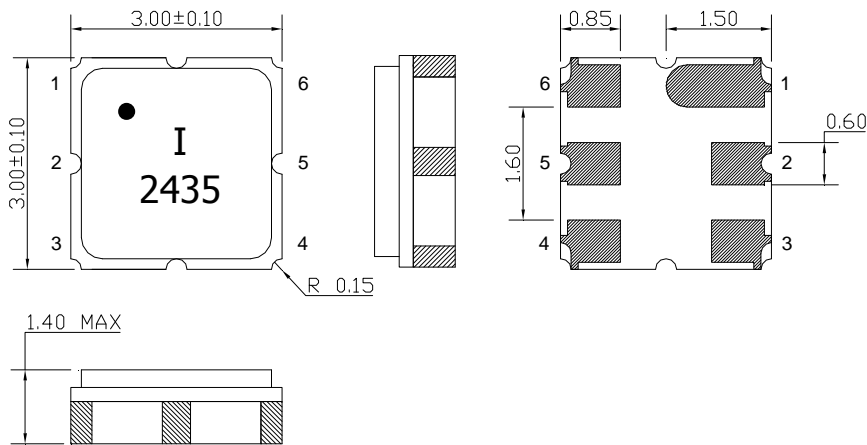
# SAW Bandpass Filter F2435



## Features

- RF bandpass filter
- High attenuation
- 3dB bandwidth 260kHz
- 50Ω single-ended operation
- Ceramic Surface Mounted Device (SMD) Package ( 3.0mm \* 3.0 mm )
- RoHS Compliant

## Package Dimensions



Dimensions shown are nominal in millimeters

Body : Al<sub>2</sub>O<sub>3</sub> 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	℃	-40	25	85
Storage Temperature Range	℃	-45	25	85
Power Handling Capability	dBm	-	-	0

Electrostatics Sensitive Device (ESD)

	<b>ITF Co., Ltd.</b> 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F2435	
		Rev. Date	2012-09-13	
		Rev.	NSNI02-AS01	1/7

# SAW Bandpass Filter F2435




## Specifications

Fc = 243.95 MHz

	Minimum	Typical	Maximum	Unit
Center Frequency ( Fc )	-	243.95	-	MHz
Insertion Loss (At Fc)	-	3.0	4.0	dB
3dB Band Width	-	260	-	kHz
Amplitude Ripple (Fc +/- 110 kHz)		0.3	1.5	dB
Relative Attenuation				
Fc +/- 0.6MHz	30	40	-	dB
Fc +/- 1.2MHz	40	45	-	
Fc +/- 21.6MHz	50	60	-	
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

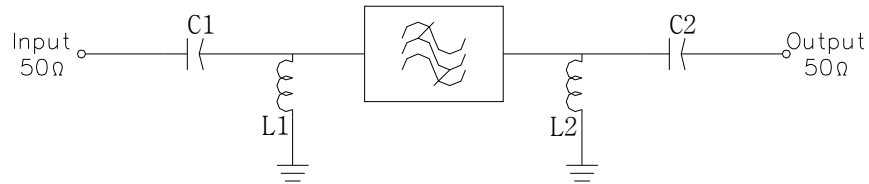
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## Matching Schematic

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



C1,C2 = 4.3 pF

L1,L2 = 82 nH

## Marking Configuration


●<sup>1)</sup>  
I<sup>2)</sup>  
2435<sup>3)</sup>

1) Pad Number 1 Index

2) Manufacturer name

3) Marking Number

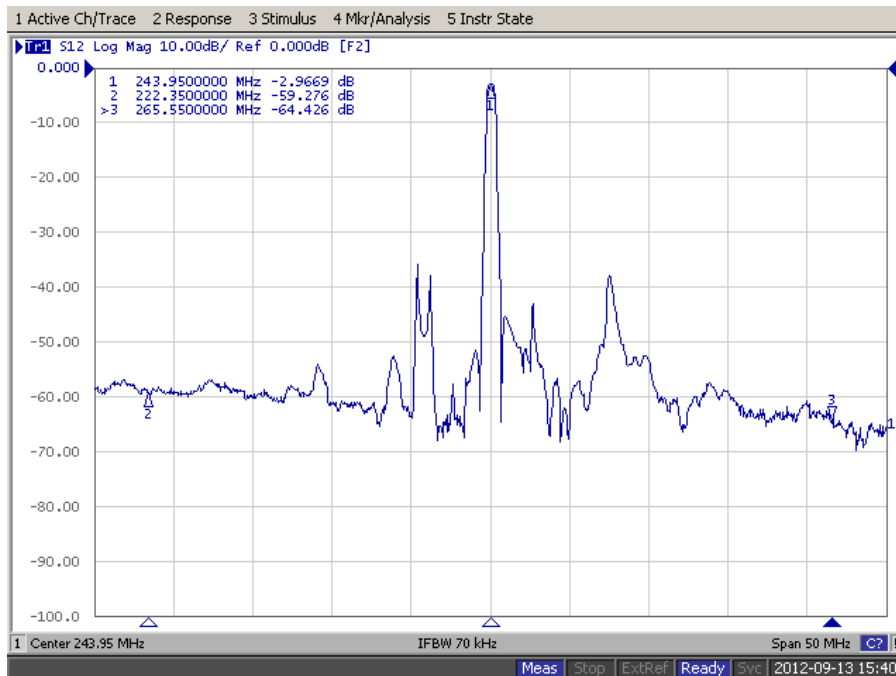
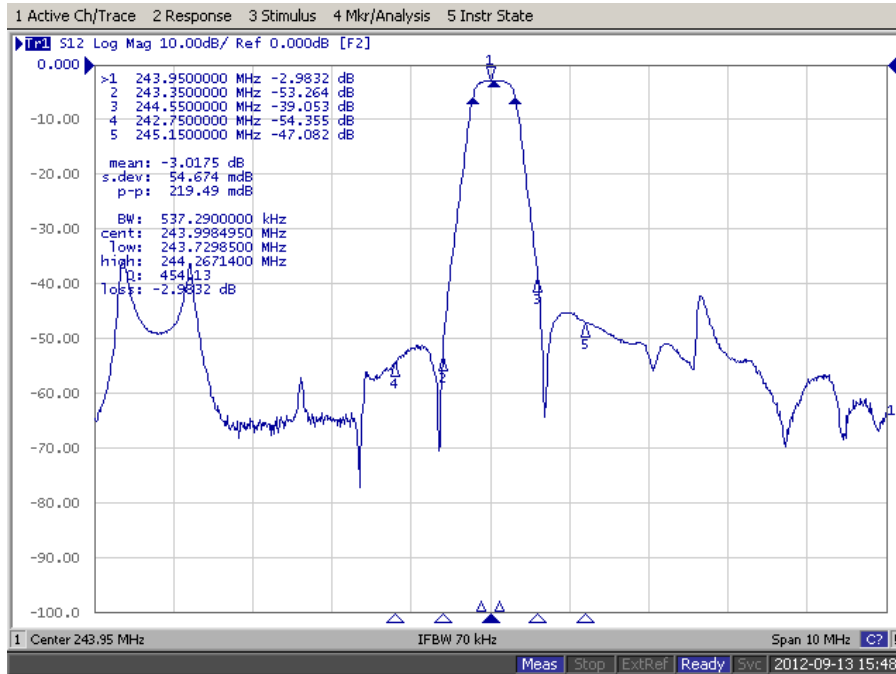
\* Ink or Laser Marking available

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## Typical Performance ( at 25°C )



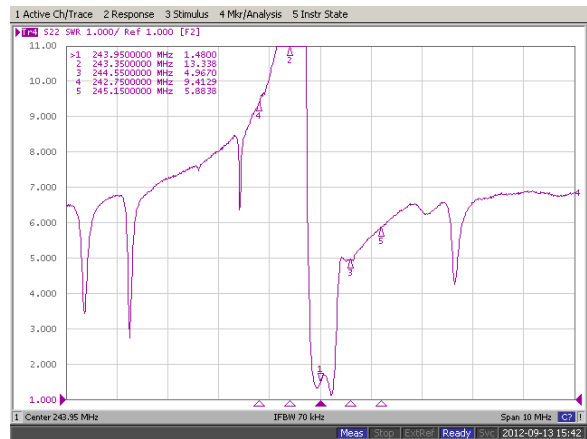
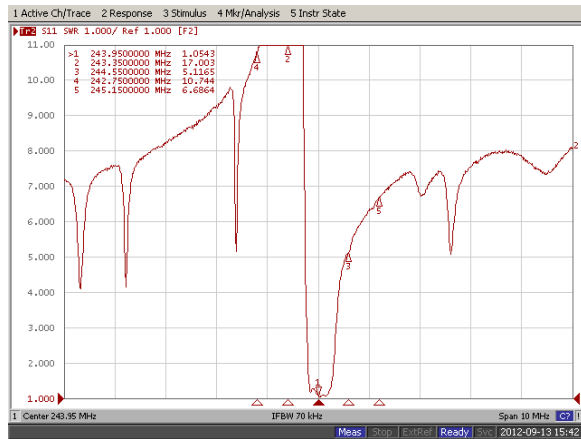
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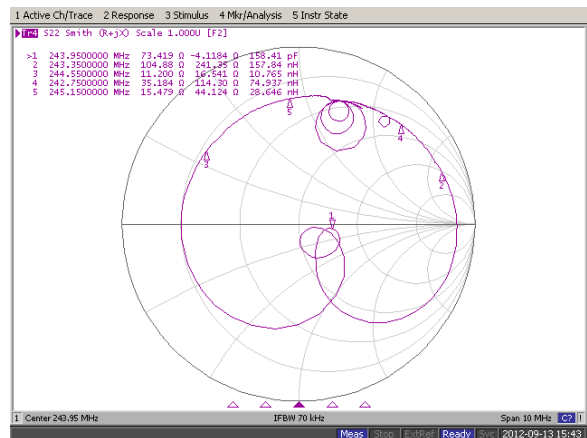
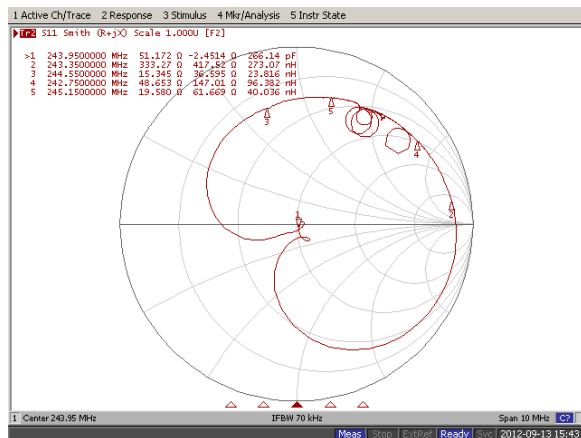
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## Input / Output VSWR Charts



## Input / Output Smith Charts



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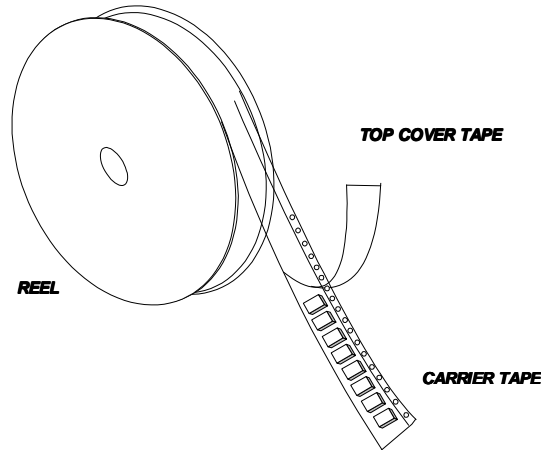
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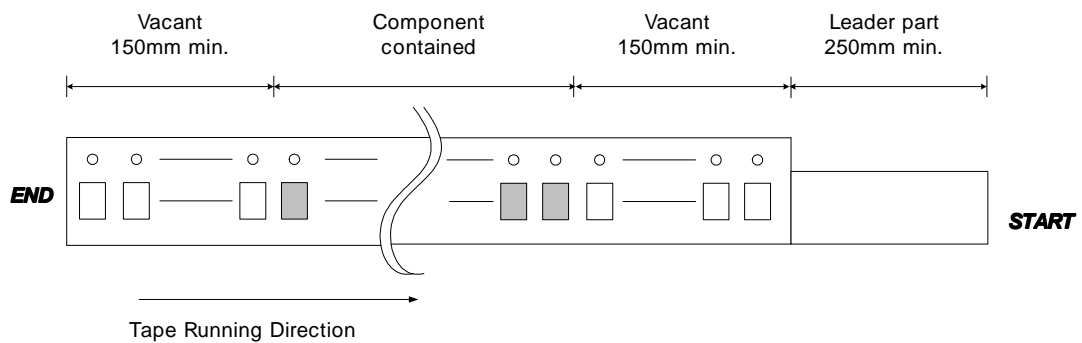
## Packing Specification

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

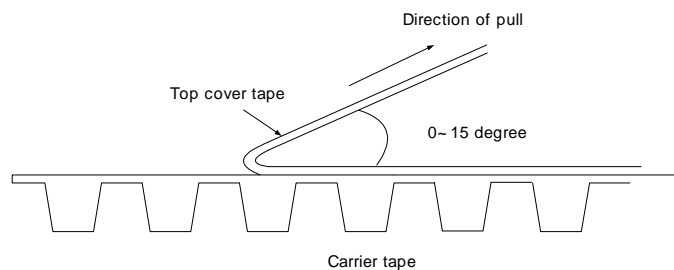


2. Tensile strength of carrier tape

4.4N/mm width

3. Top cover tape adhesion

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

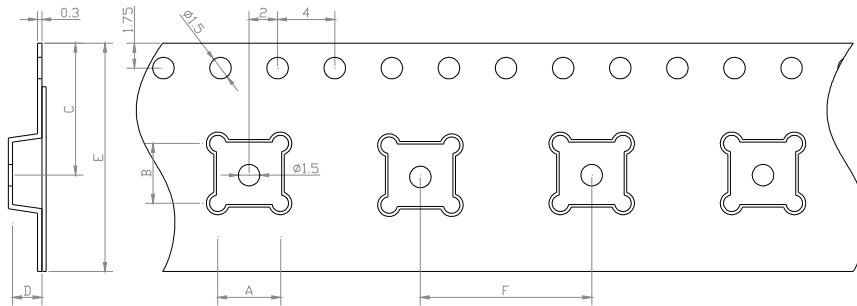


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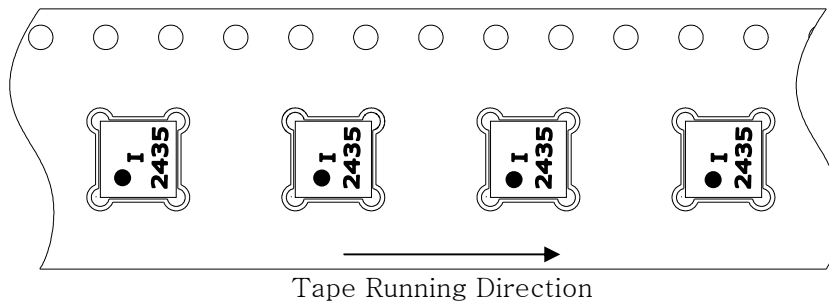


## Carrier Tape Dimensions [unit : mm]

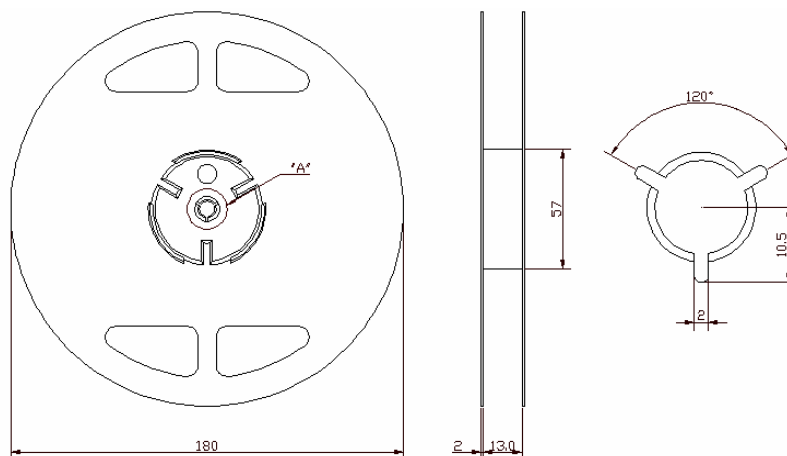


A	3.40 ± 0.1
B	3.40 ± 0.1
C	7.25 ± 0.1
D	1.70 ± 0.1
E	12.00 ± 0.1
F	8.00 ± 0.1

## Part Direction



## Reel Dimensions [unit : mm]



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