

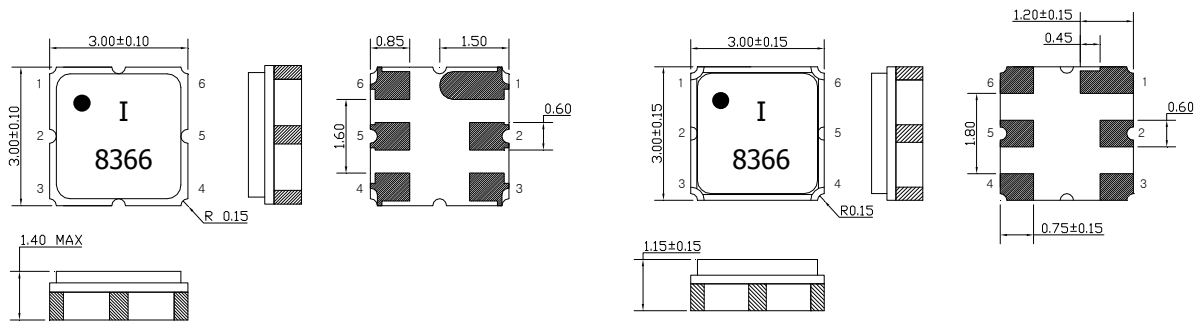
SAW Bandpass Filter F8366



Features

- CDMA applications
- Usable bandwidth of 25 MHz
- No impedance matching require for operation at 50 Ω
- Ceramic Surface Mounted Device Package (3.0 mm * 3.0 mm)
- Single-ended Operation
- RoHS Compliant

Package Dimensions



Package A

Package B

Both packages A and B are applicable

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
5	Output
1, 3, 4, 6	Case ground

Maximum Ratings

Parameters	Unit	Minimum	Typical	Maximum
Operating Temperature Range	℃	-30	25	85
Storage Temperature Range	℃	-40	-	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.	F8366	
		Rev. Date	2014-04-03	
		Rev.	NC9006-AS04	1/7

SAW Bandpass Filter F8366



Specifications

	Minimum	Typical	Maximum	Unit
Center Frequency (Fc)	-	836.5	-	MHz
Insertion Loss (In Fc +/- 12.5 MHz)	-	2.5	3.1	dB
Amplitude Ripple (In Fc +/- 12.5 MHz)	-	0.9	1.5	dBp-p
Absolute Delay	-	33	60	ns
Group Delay valuation (In Fc +/- 12.5 MHz)	-	17	50	ns p-p
VSWR (In Fc +/- 12.5 MHz)	-	1.5	2.0	
Relative Attenuation				
DC ~ 800.0 MHz	30.0	51.0	-	dB
869.0 MHz ~ 894.0 MHz	20.0	26.0	-	
894.0 MHz ~ 920.0 MHz	34.0	39.0	-	
920.0 MHz ~ 1210.0 MHz	40.0	50.0	-	
1210.0 MHz ~ 1500.0 MHz	30.0	46.0	-	
1500.0 MHz ~ 2000.0 MHz	25.0	45.0	-	
Temperature Range (Operational)	-30	25	85	°C
Input RF Power (In Fc +/- 12.5 MHz)	-	10	-	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

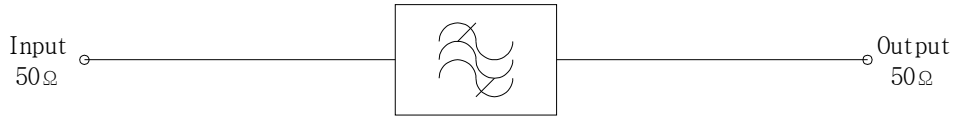
	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F8366	
		Rev. Date	2014-04-03	
		Rev.	NC9006-AS04	2/7

SAW Bandpass Filter F8366



Matching Schematic

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




Marking Configuration

●¹⁾
I²⁾
8366³⁾

- 1) Pad Number 1 Index
- 2) Manufacturer name
- 3) Marking Number

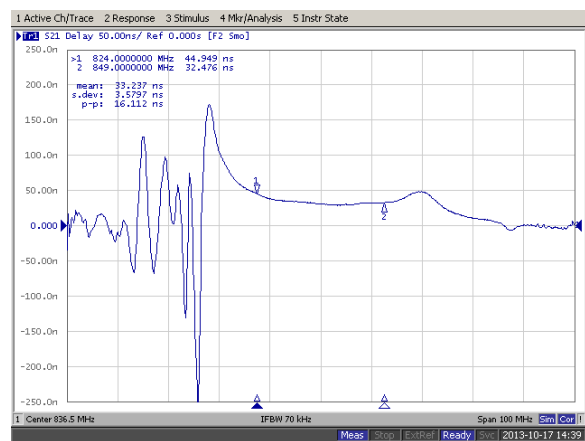
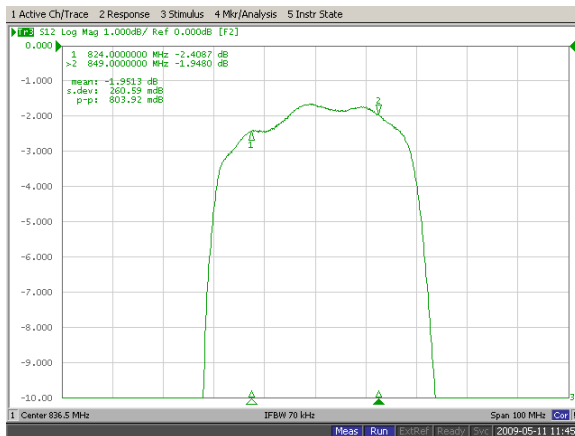
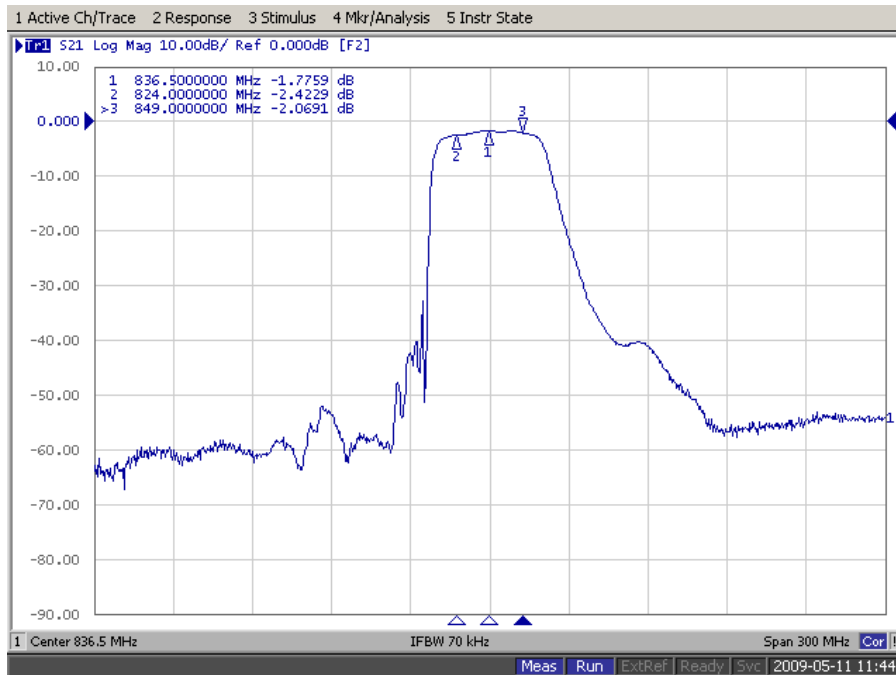
* Ink or Laser Marking available

 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F8366	
		Rev. Date	2014-04-03	
		Rev.	NC9006-AS04	3/7

SAW Bandpass Filter F8366



Typical Performance (at 25°C)

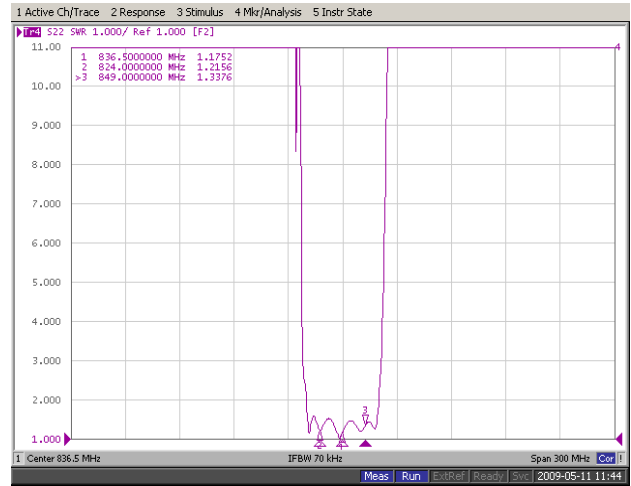
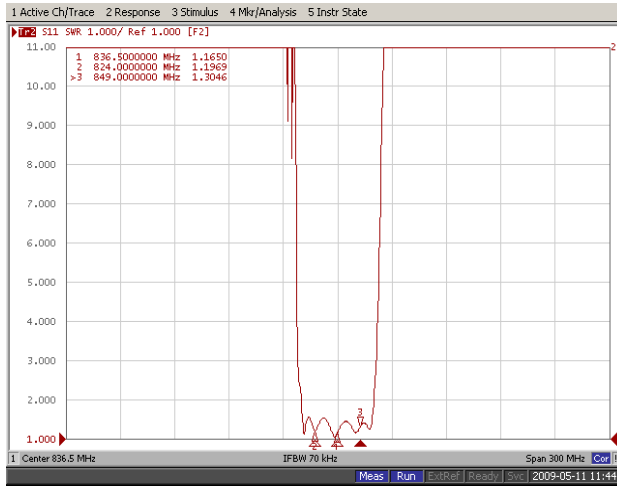


	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F8366	
		Rev. Date	2014-04-03	
		Rev.	NC9006-AS04	4/7

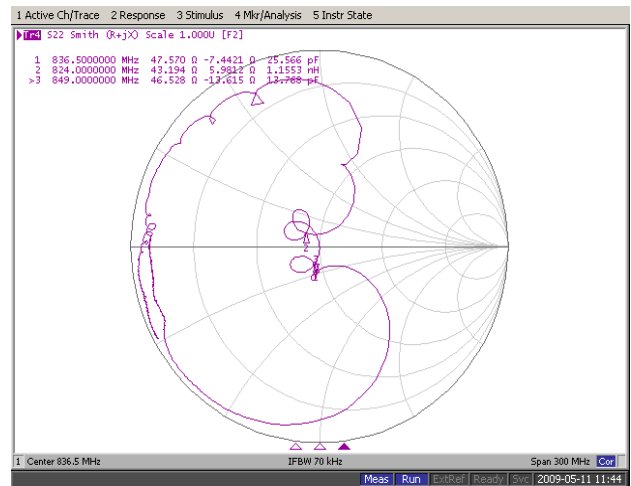
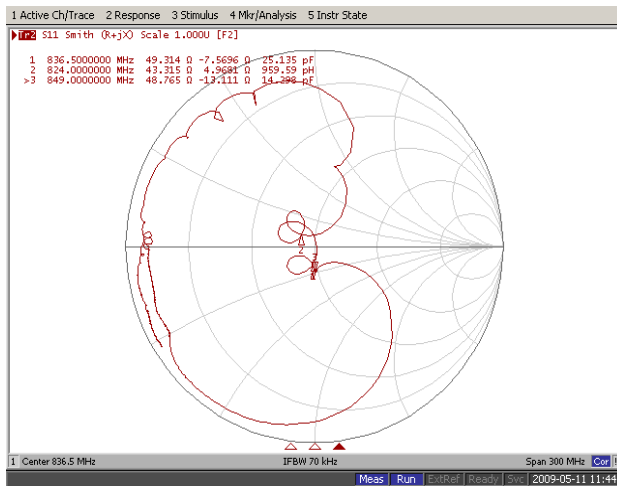
SAW Bandpass Filter F8366



Input / Output VSWR Charts



Input / Output Smith Charts



ITF Co., Ltd.
 102-901, Bucheon Technopark 364,
 Samjeong-Dong, Ojeong-Gu, Bucheon-City,
 Gyeonggi-Do, Korea 421-809

Part No.

F8366

Rev. Date

2014-04-03

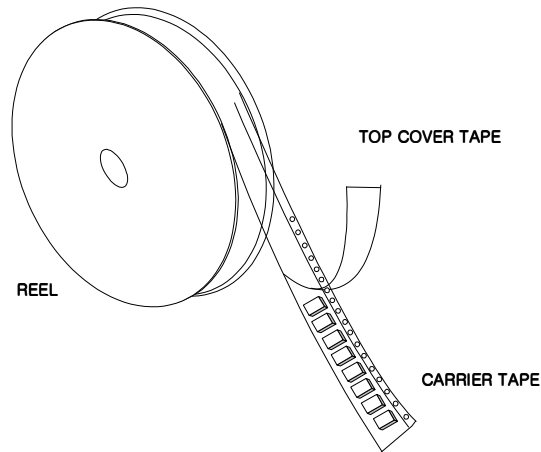
Rev.

NC9006-AS04

5/7

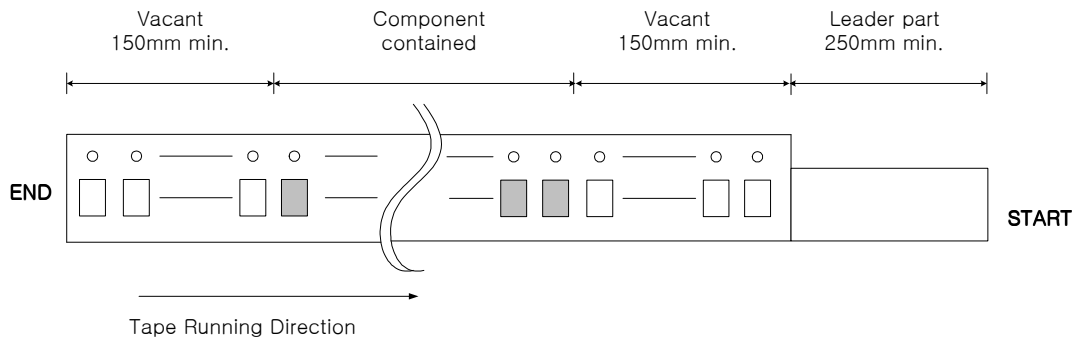
Packing Specification

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

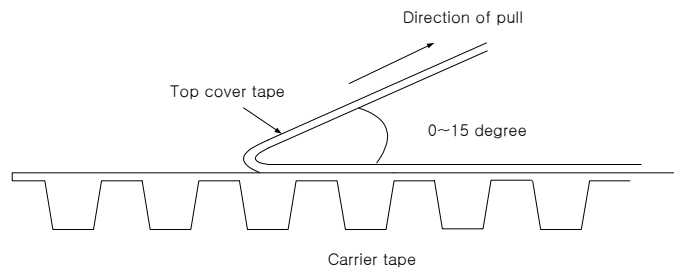


2. Tensile strength of carrier tape

4.4N/mm width

3. Top cover tape adhesion

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

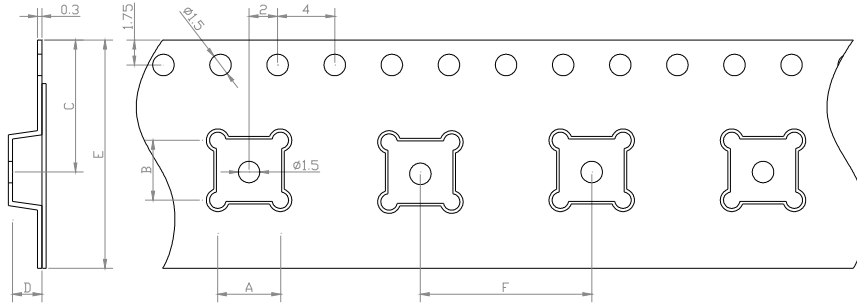


	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F8366	
		Rev. Date	2014-04-03	
		Rev.	NC9006-AS04	6/7

SAW Bandpass Filter F8366

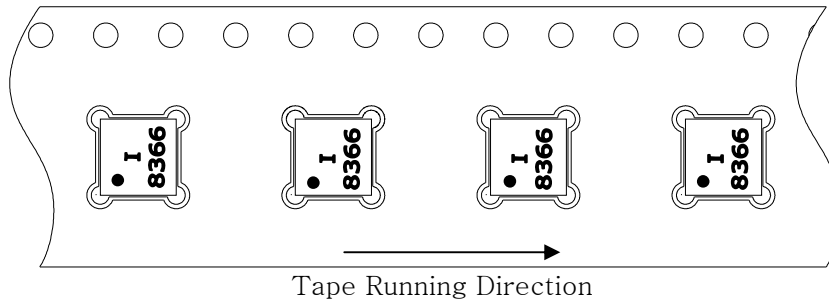


Carrier Tape Dimensions [unit : mm]

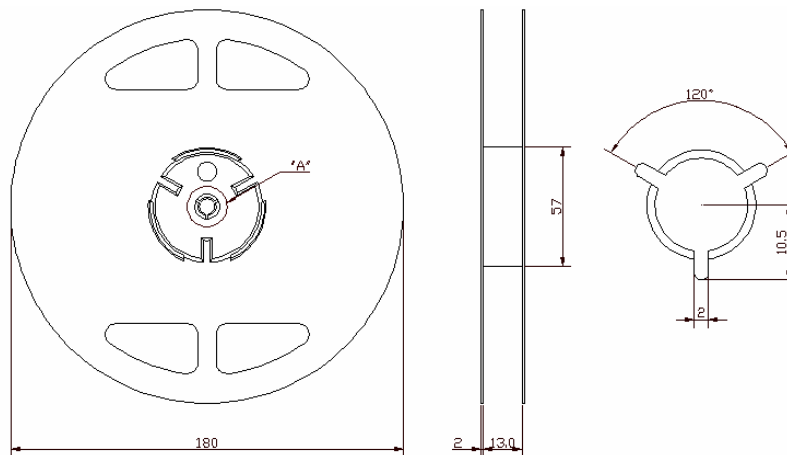



A	3.40 ± 0.1
B	3.40 ± 0.1
C	7.25 ± 0.1
D	1.70 ± 0.1
E	12.00 ± 0.1
F	8.00 ± 0.1

Part Direction



Reel Dimensions [unit : mm]



	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F8366	
		Rev. Date	2014-04-03	
		Rev.	NC9006-AS04	7/7