

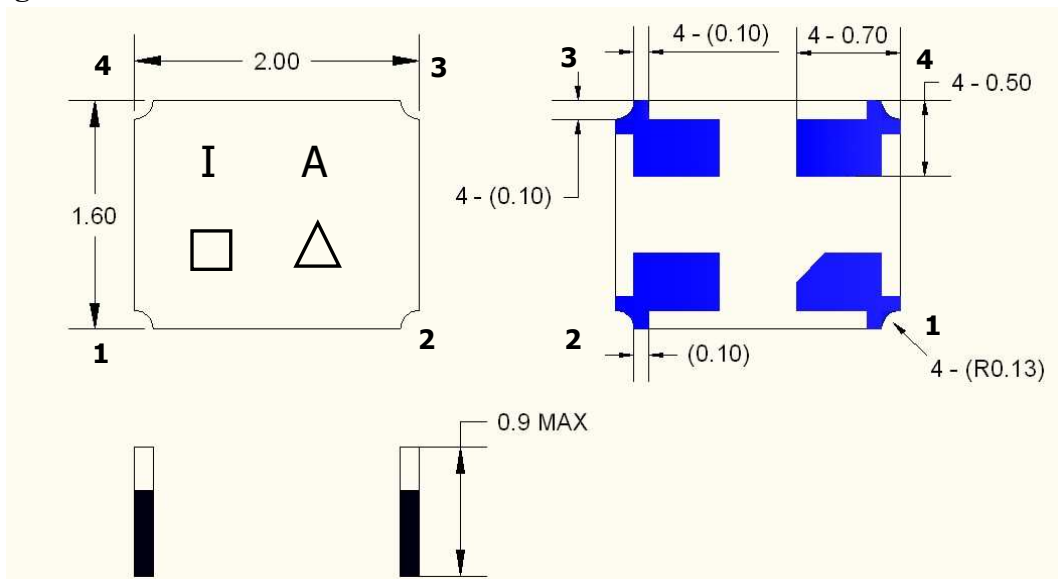
SAW Bandpass Filter F2G17



Features

- TDSCDMA applications
- Usable bandwidth of 15 MHz
- No impedance matching require for operation at 50 Ω
- SMD Package 2.0 mm × 1.6 mm
- Single-ended Operation
- RoHS Compliant

Package Dimensions




Pin Configurations	
1	Input
2	Case Ground
3	Output
4	Case Ground

Maximum Ratings

Parameters	Unit	Minimum	Typical	Maximum
Operating Temperature Range	℃	-30	25	85
Storage Temperature Range	℃	-40	-	95
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.	F2G17	
		Rev. Date	2009-11-18	
		Rev.	NC9014-AS01	1/7

SAW Bandpass Filter F2G17



Specifications

Fo = 2017.5 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

	Minimum	Typical	Maximum	Unit
Center Frequency (Fc)	-	2017.5	-	MHz
Insertion Loss (In Fc +/- 7.5 MHz)	-	1.5	2.5	dB
Amplitude Ripple (In Fc +/- 7.5 MHz)	-	0.2	1.0	dBp-p
VSWR (In Fc +/- 7.5 MHz)	-	1.3	2.0	
Relative Attenuation				
DC ~ 1850.0 MHz	30.0	33.0	-	dB
1850.0 MHz ~ 1950.0 MHz	20.0	27.0	-	
2085.0 MHz ~ 2400.0 MHz	19.0	21.0	-	
2400.0 MHz ~ 2430.0 MHz	29.0	33.0	-	
2430.0 MHz ~ 2790.0 MHz	25.0	32.0	-	
2790.0 MHz ~ 2820.0 MHz	30.0	32.0	-	
2820.0 MHz ~ 3000.0 MHz	25.0	34.0	-	
Temperature Range (Operational)	-30	25	85	℃
Input RF Power (In Fc +/- 7.5 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

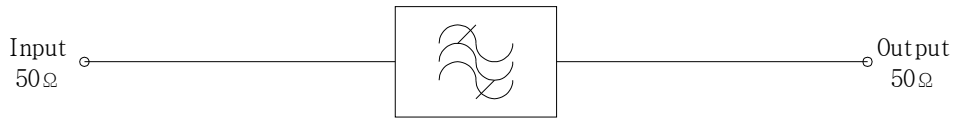
 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F2G17	
		Rev. Date	2009-11-18	
		Rev.	NC9014-AS01	2/7

SAW Bandpass Filter F2G17



Matching Schematic

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



Marking Configuration

I A ¹⁾ **□** ²⁾ **△** ³⁾


1) Part Number Mark

2) Year Code

3) Date Code

□ : Year Code (2006→6 ,..., 2009→9)

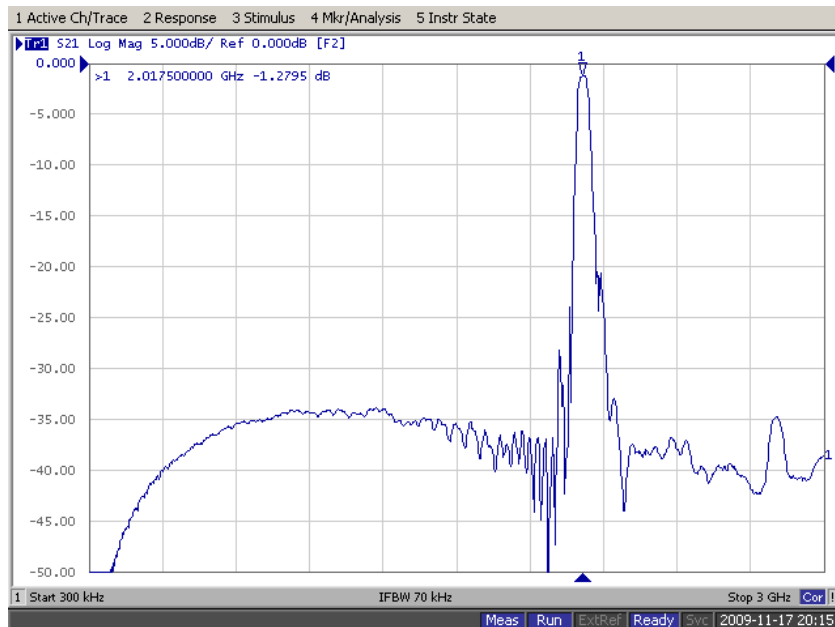
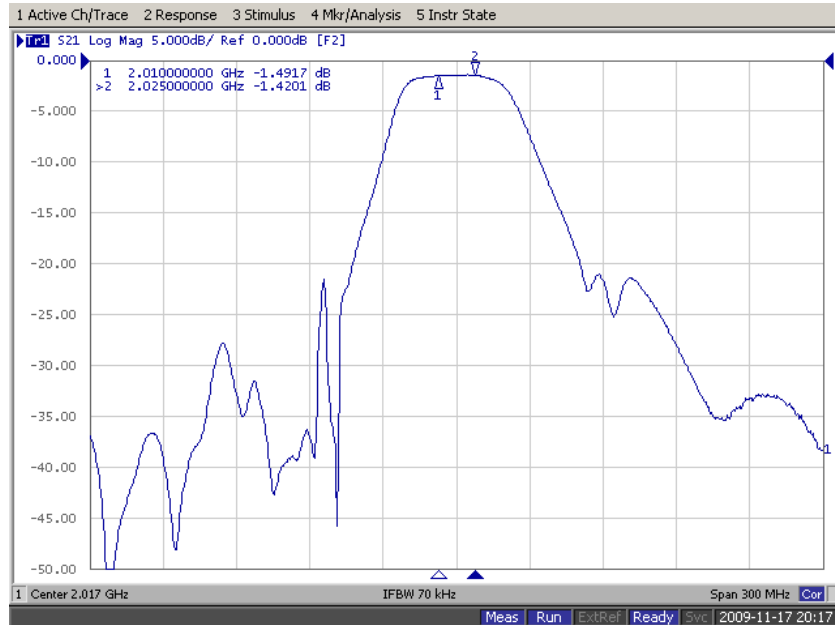
△ : Date Code (W01→A ,..., W26→Z, W27→a ,..., W52→z)

 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F2G17	
		Rev. Date	2009-11-18	
		Rev.	NC9014-AS01	3/7

SAW Bandpass Filter F2G17



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.

F2G17

Rev. Date

2009-11-18

Rev.

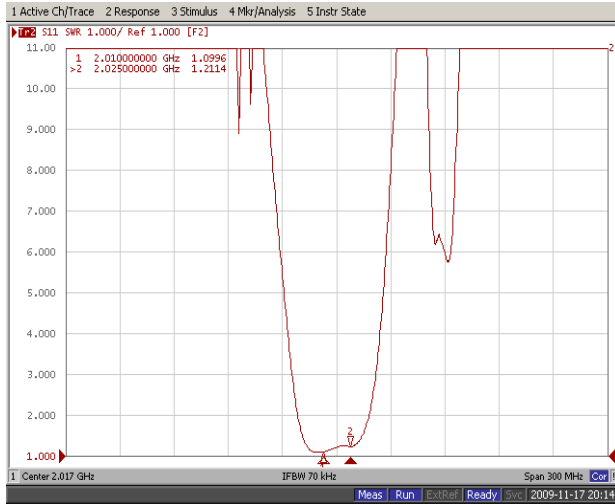
NC9014-AS01

4/7

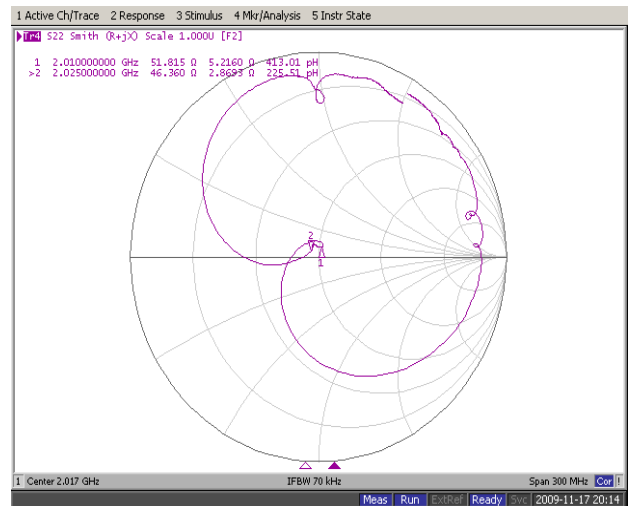
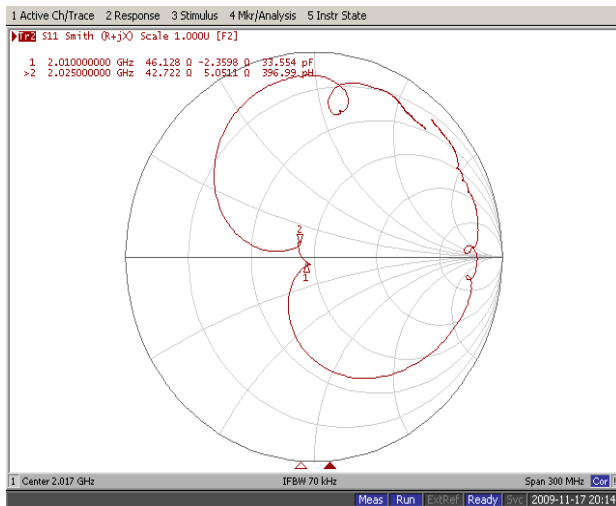
SAW Bandpass Filter F2G17



Input / Output VSWR Charts



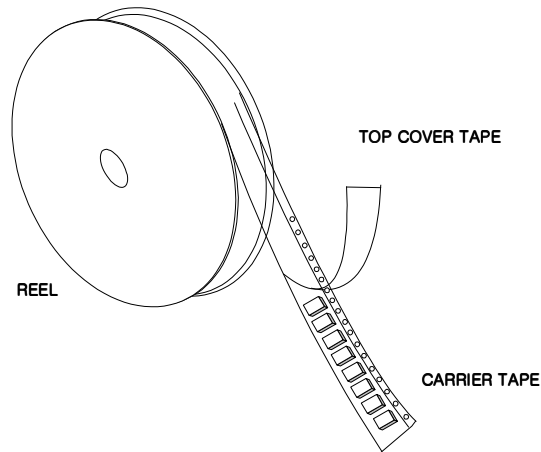
Input / Output Smith Charts



	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F2G17	
		Rev. Date	2009-11-18	
		Rev.	NC9014-AS01	5/7

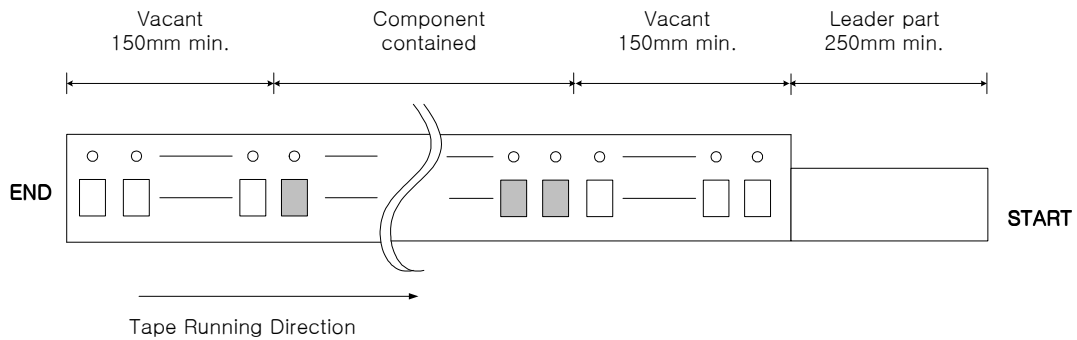
Packing Specification

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

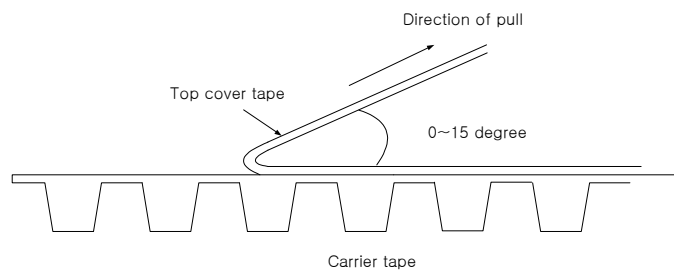


2. Tensile strength of carrier tape

4.4N/mm width

3. Top cover tape adhesion

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

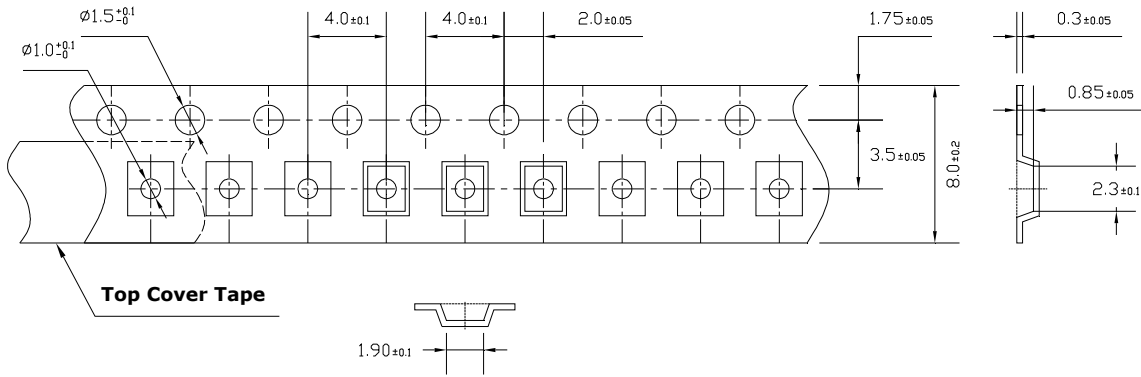


	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F2G17	
		Rev. Date	2009-11-18	
		Rev.	NC9014-AS01	6/7

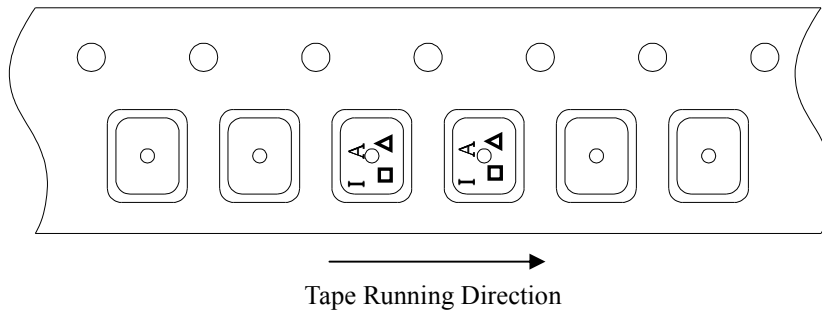
SAW Bandpass Filter F2G17



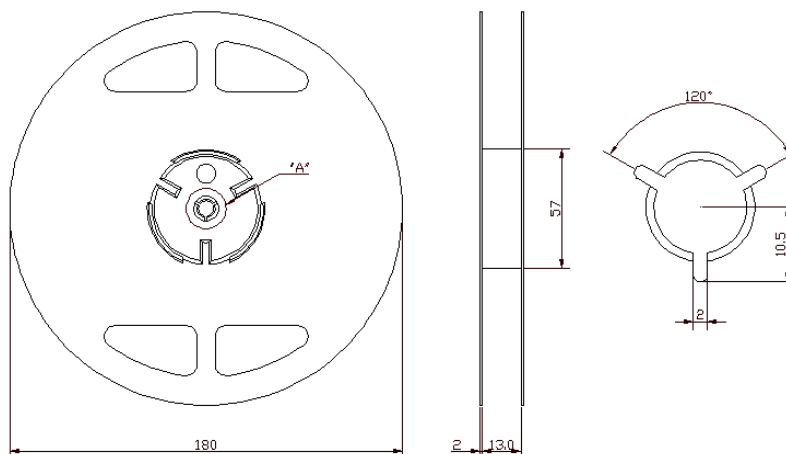
Carrier Tape Dimensions [unit : mm]



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.	F2G17	
		Rev. Date	2009-11-18	
		Rev.	NC9014-AS01	7/7