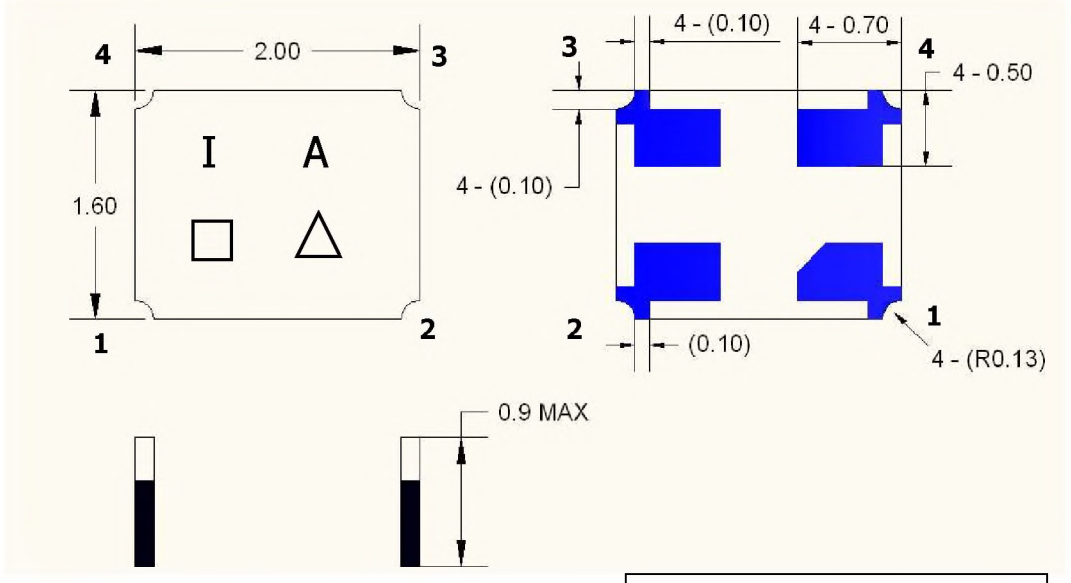
SAW Bandpass Filter F2G17

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**)

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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				dB
DC ~ 1850.0 MHz	30.0	33.0	-	
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 :

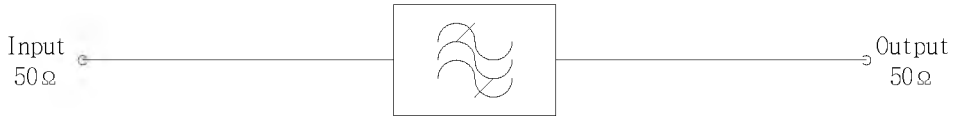
1) All specifications are based on the matching schematic shown below, measured by Agilent Network analyzer and full 2 port calibration.

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

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)

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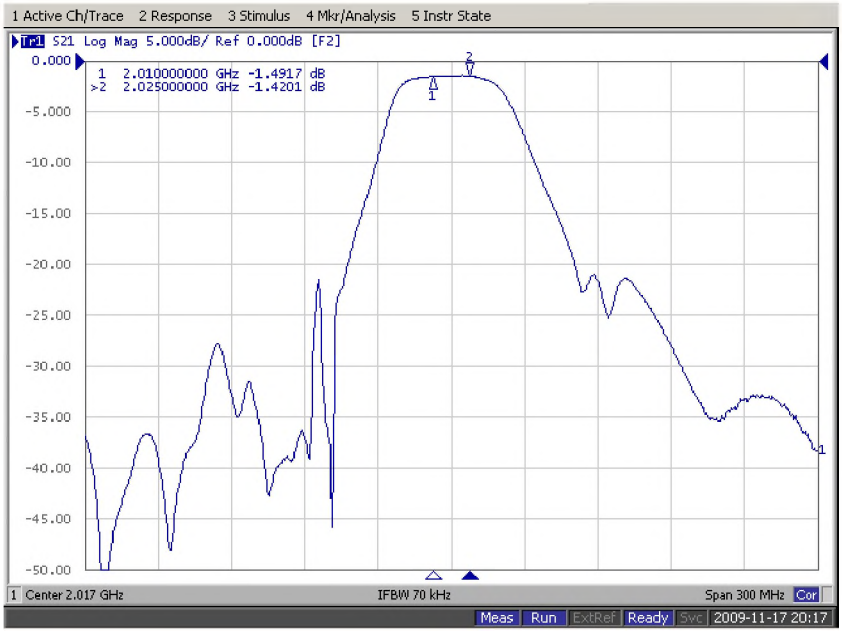
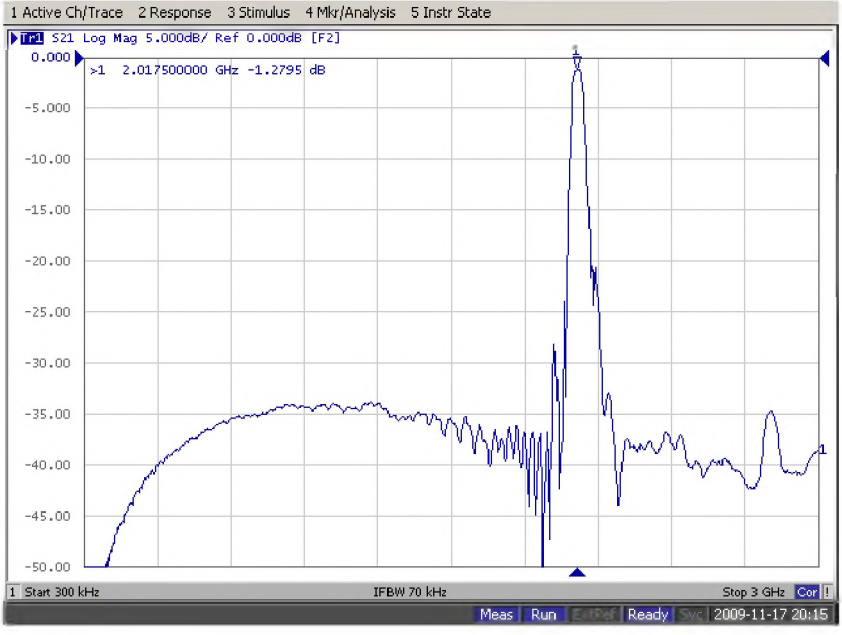
Typical Performance (at 25℃)





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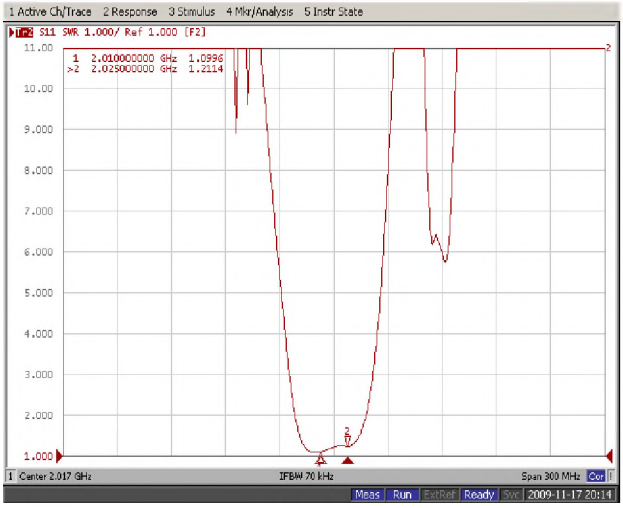
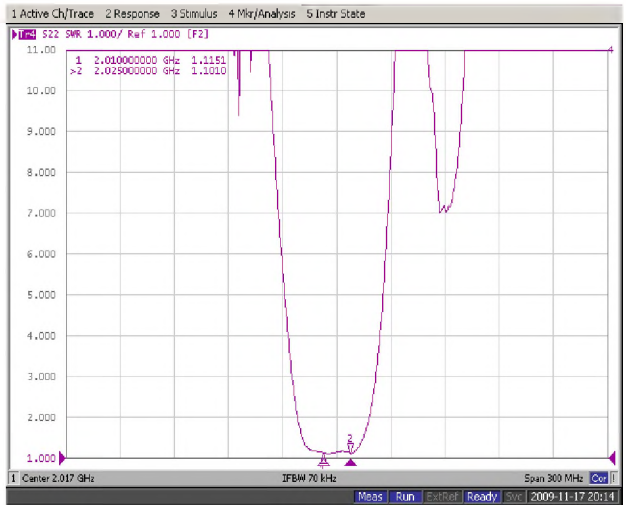
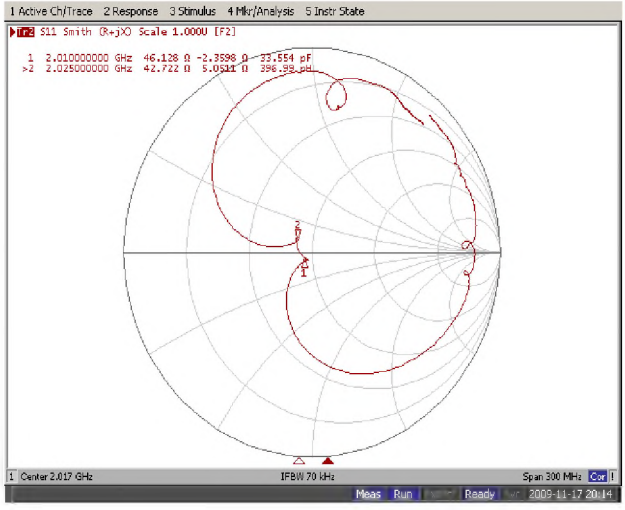
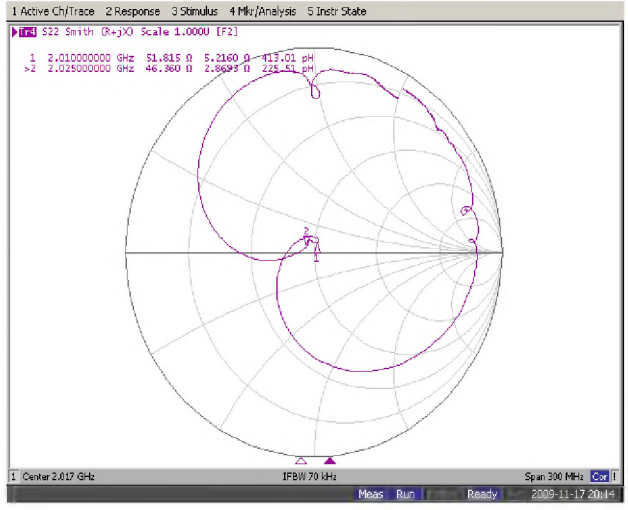
Input / Output VSWR Charts





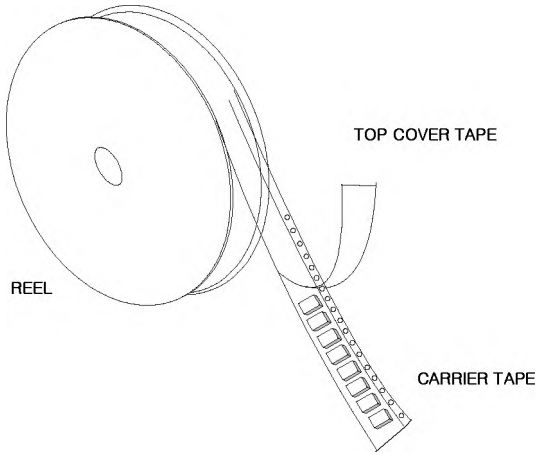
Input / Output Smith Charts





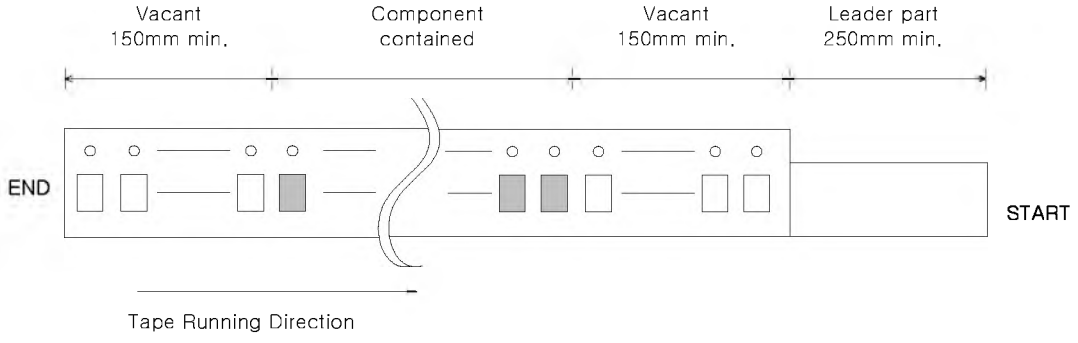
Packing Specification

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

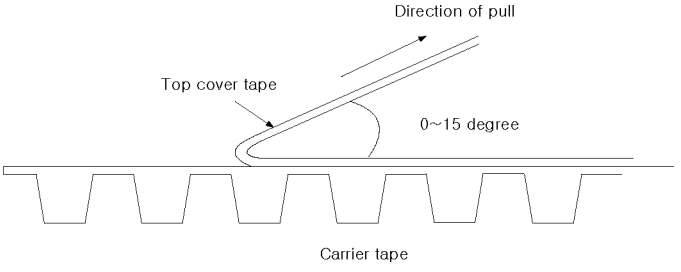
   4.4N/mm width

3. Top cover tape adhesion

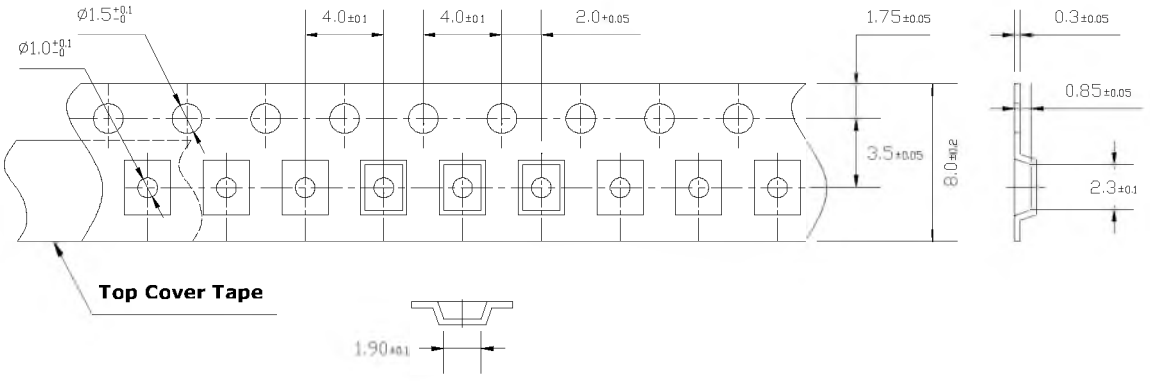
   1) pull off angle : 0~15°

   2) speed : 300mm/min

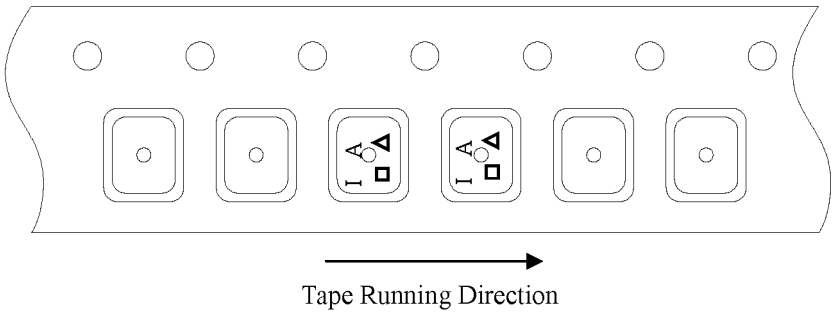
   3) force : 20~70g



Carrier Tape Dimensions [unit : mm]



Part Direction



Reel Dimensions [unit : mm]