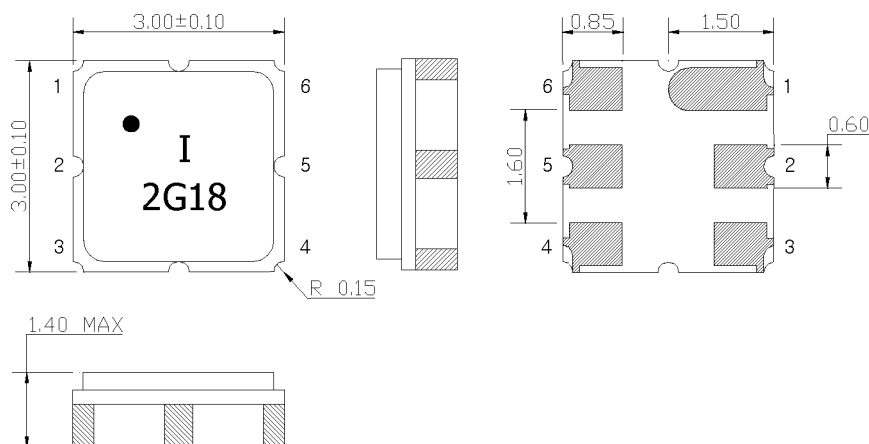


SAW Bandpass Filter F2G18

Features

- TDSCDMA applications
- Usable bandwidth of 15 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



Dimensions shown are nominal in millimeters

Body : Al₂O₃ Ceramic

Lid : Kovar, Ni Plated

Terminations : Au plating 0.3 ~ 1.0 μ m, Over a 1.27 ~ 8.89 μ m
Ni Plating

Pin Configurations

2	Input
5	Output
1, 3, 4, 6	Case ground

Maximum Ratings

Parameters	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	25	85
Storage Temperature Range	°C	-40	-	85
Power Handling Capability	dBm	-	-	10

Electrostatics Sensitive Device (**ESD**)

SAW Bandpass Filter F2G18

Specifications

	Minimum	Typical	Maximum	Unit
Center Frequency (Fc)	-	2017.5	-	MHz
Insertion Loss (In Fc +/- 7.5 MHz)	-	2.9	4.0	dB
Amplitude Ripple (In Fc +/- 7.5 MHz)	-	0.5	1.5	dBp-p
VSWR (In Fc +/- 7.5 MHz)	-	2.0	2.5	
Relative Attenuation				
DC ~ 1200.0 MHz	40.0	48.0	-	dB
1200.0 MHz ~ 1860.0 MHz	30.0	35.0	-	
1920.0 MHz ~ 1980.0 MHz	20.0	30.0	-	
2045.0 MHz ~ 2070.0 MHz	6.0	17.0	-	
2070.0 MHz ~ 2300.0 MHz	30.0	35.0	-	
2300.0 MHz ~ 3000.0 MHz	25.0	30.0		
Temperature Range (Operational)	-30	25	85	°C
Input RF Power (In Fc +/- 7.5 MHz)			10	dBm
Input/Output Impedance		50		Ohms

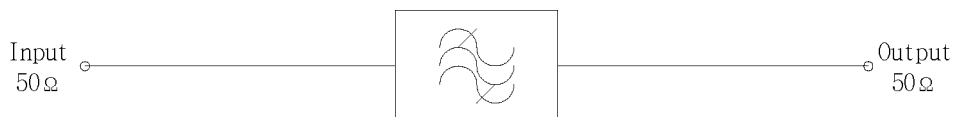
Notes :

- 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

SAW Bandpass Filter F2G18

Matching Schematic

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



Marking Configuration

1)
●
I²⁾
2G18³⁾

1) Pad Number 1 Index

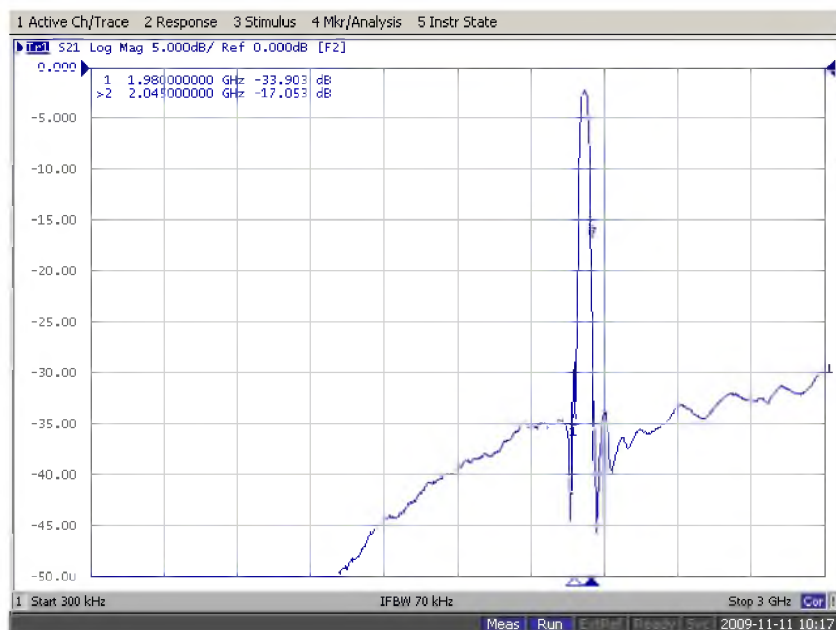
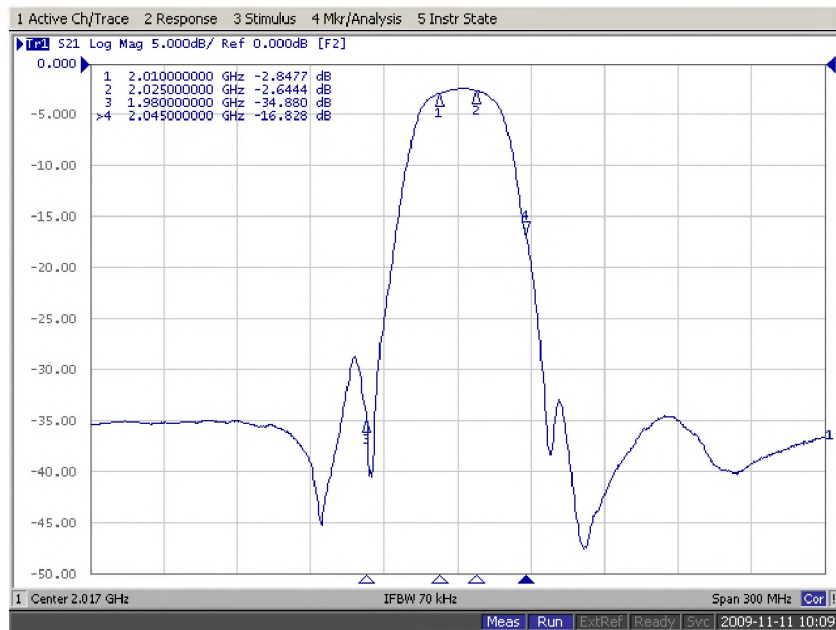
2) Manufacturer name

3) Marking Number

* Ink or Laser Marking available

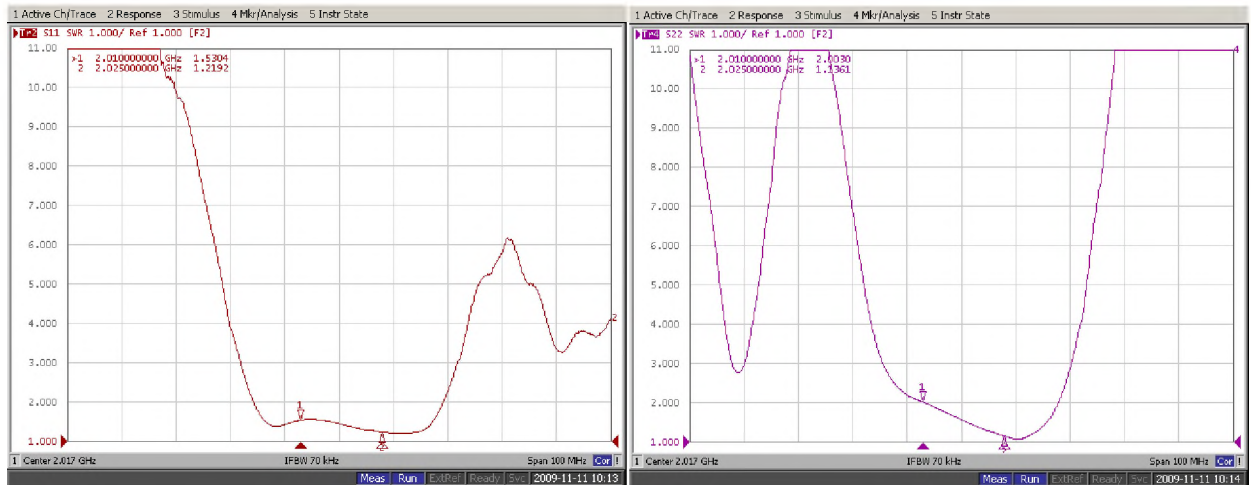
SAW Bandpass Filter F2G18

Typical Performance (at 25°C)

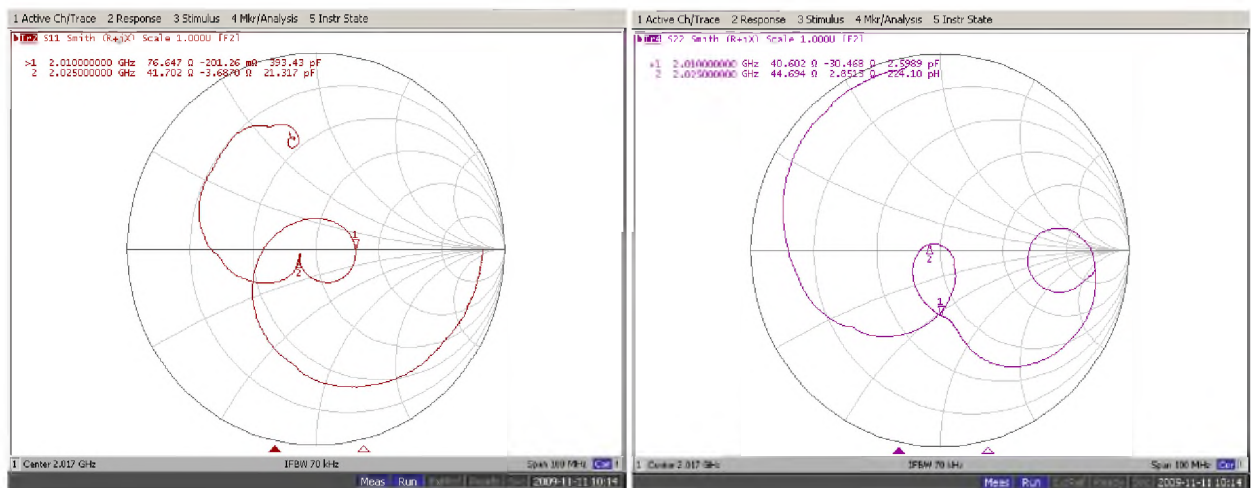


SAW Bandpass Filter F2G18

Input / Output VSWR Charts



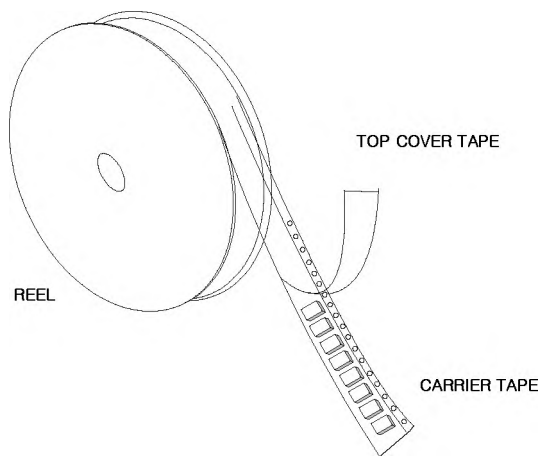
Input / Output Smith Charts



SAW Bandpass Filter F2G18

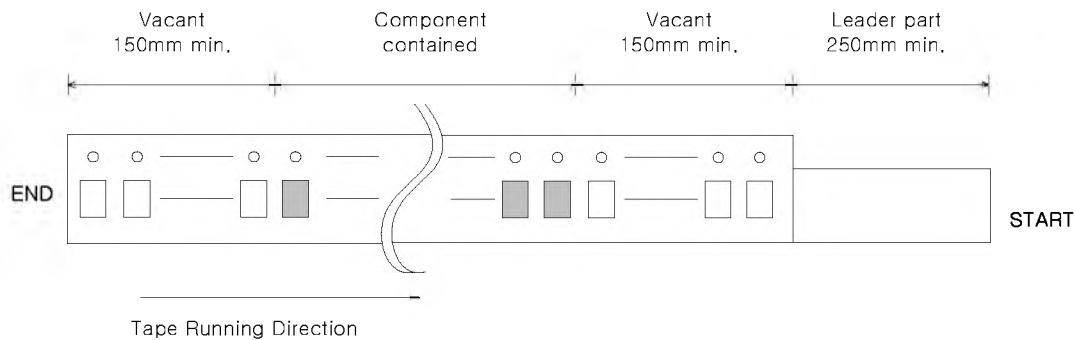
Packing Specification

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

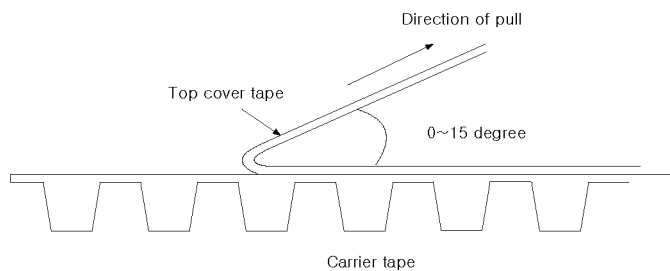
4.4N/mm width

3. Top cover tape adhesion

1) pull off angle : 0~15°

2) speed : 300mm/min

3) force : 20~70g



Carrier Tape Dimensions [unit : mm]

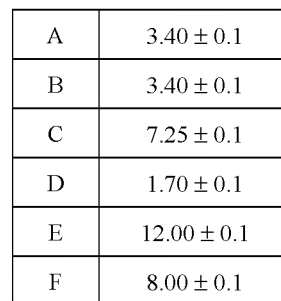


Diagram illustrating the Tape Running Direction. The tape contains four frames, each labeled **I** 2G18, indicating the data format and tape speed.