

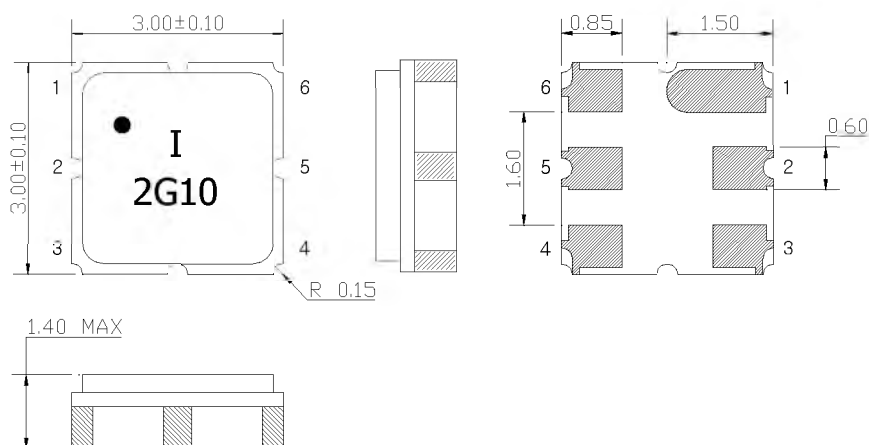
SAW Bandpass Filter F2G10



Features

- RF bandpass filter
- High attenuation
- No matching single-ended operation
- Ceramic Surface Mounted Device Package (3.0 mm × 3.0 mm)
- RoHS Compliant

Package Dimension – SMD 3.0 × 3.0



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 Configuration

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

Maximum Ratings

Parameter	Unit	Minimum	Typical	Maximum
Operating Temperature Range	℃	-30	25	85
Storage Temperature Range	℃	-40	25	85
Power Handling Capability	dBm	-	-	10

Electrostatics Sensitive Device (ESD)

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Specifications

$F_c = 2120 \text{ MHz}$

Terminating source impedance : 50Ω

Terminating load impedance : 50Ω

	Minimum	Typical	Maximum	Unit
Center Frequency (F_c)	-	2120	-	MHz
Insertion Loss (In $F_c \pm 10 \text{ MHz}$)	-	2.4	4.0	dB
Amplitude Ripple (In $F_c \pm 10 \text{ MHz}$)	-	0.7	2.0	dBp-p
VSWR (In $F_c \pm 10 \text{ MHz}$)	-	1.7	2.5	
Relative Attenuation				
DC ~ 500 MHz	20	32	-	dB
500 ~ 1900 MHz	18	28	-	
190 ~ 2040 MHz	22	33	-	
2220 ~ 2300 MHz	24	36	-	
2300 ~ 4000 MHz	22	34	-	
Input/Output Impedance	-	50	-	Ohms

Notes :

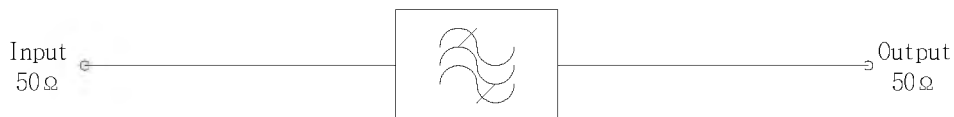
- 1) All specifications are based on the matching schematic shown below, measured by Agilent Network analyzer and full 2 port calibration.
- 2) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances

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Matching Schematic

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



Marking Configuration

1)
●
I²⁾
2G10³⁾

1) Pad Number 1 Index

2) Manufacturer name

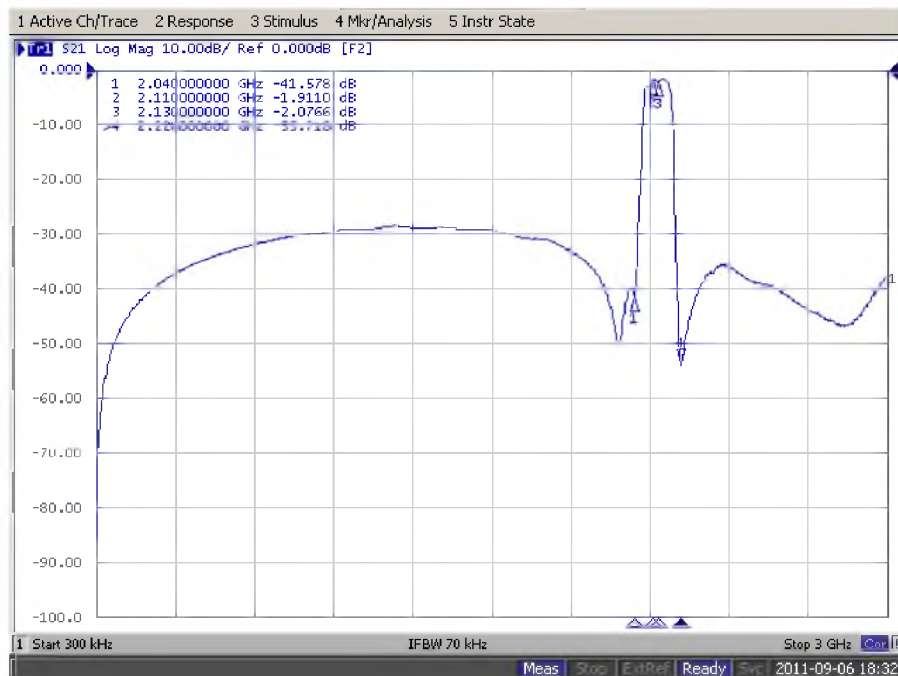
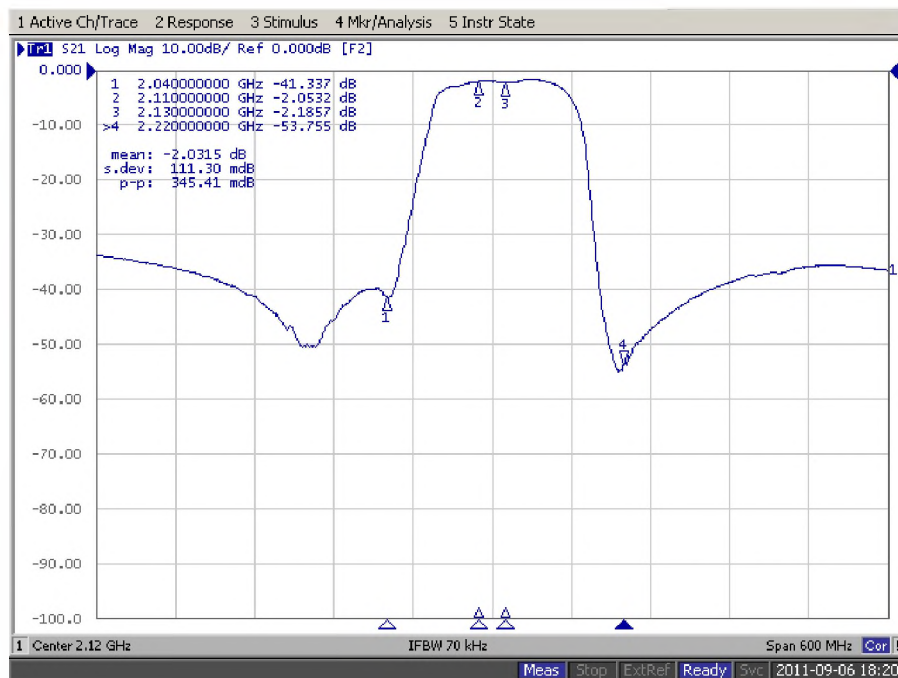
3) Marking Number

* Ink or Laser Marking available

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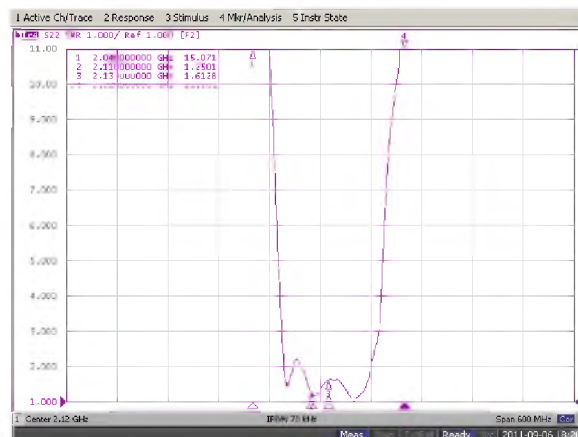
Typical Performance (at 25°C)



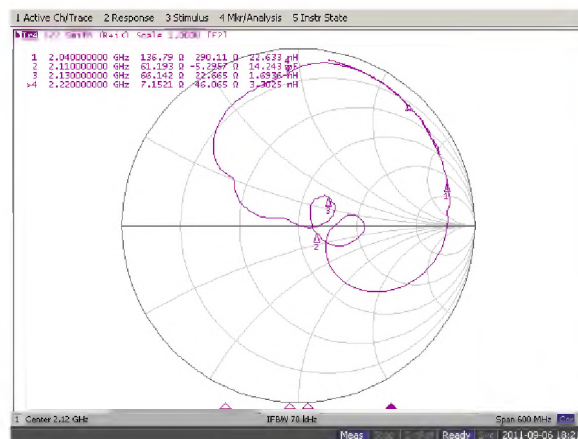
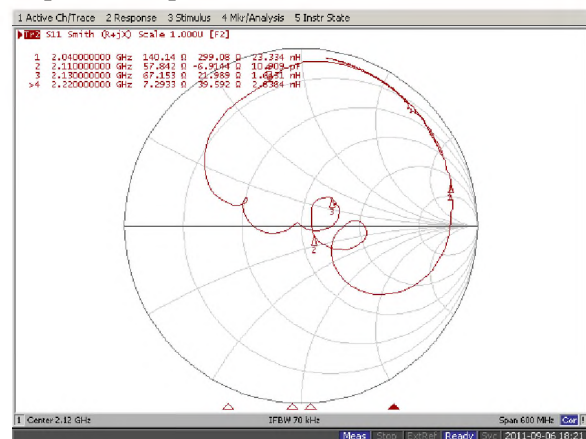
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Input / Output VSWR Charts



Input / Output Smith Charts

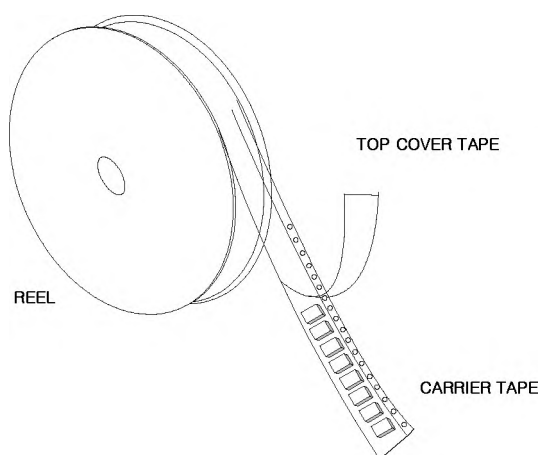


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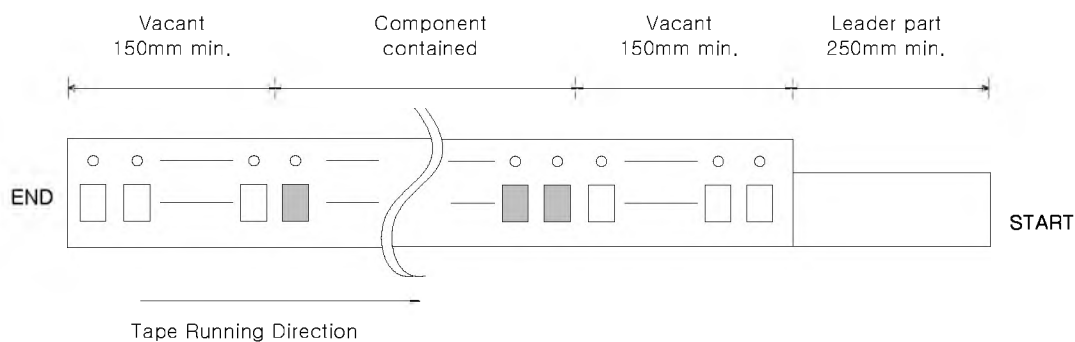
Packing Specification

1. Reeling Quantity : 1000 pcs / 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

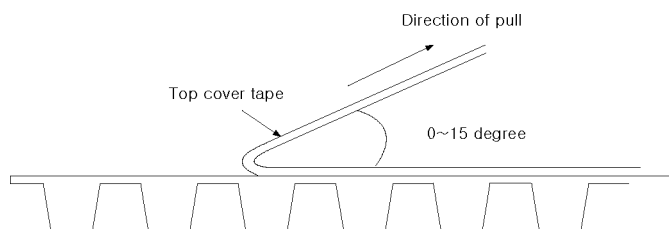
4.4N/mm width

3. Top cover tape adhesion

1) pull off angle : 0~15°

2) speed : 300mm/min

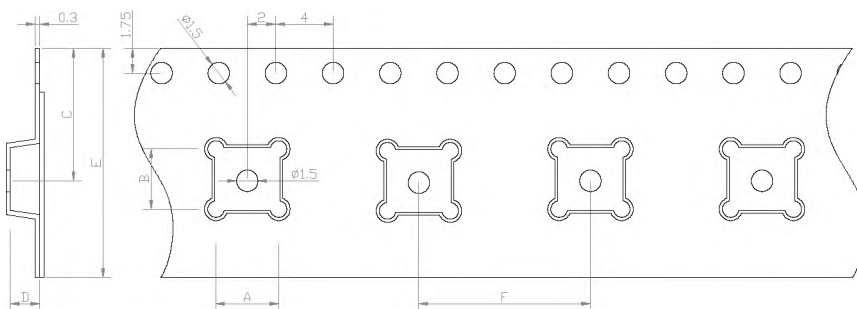
3) force : 20 ~ 70



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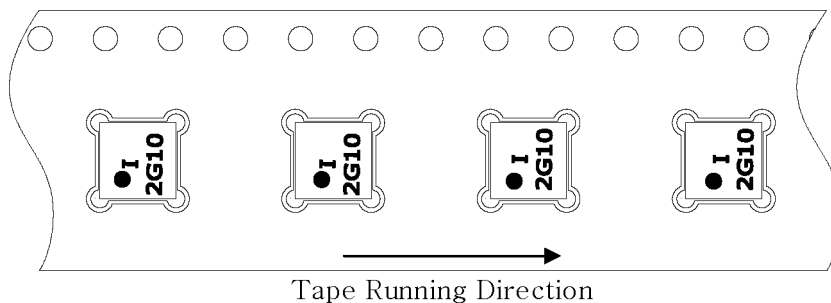


Carrier Tape Dimensions [unit : mm]



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]

