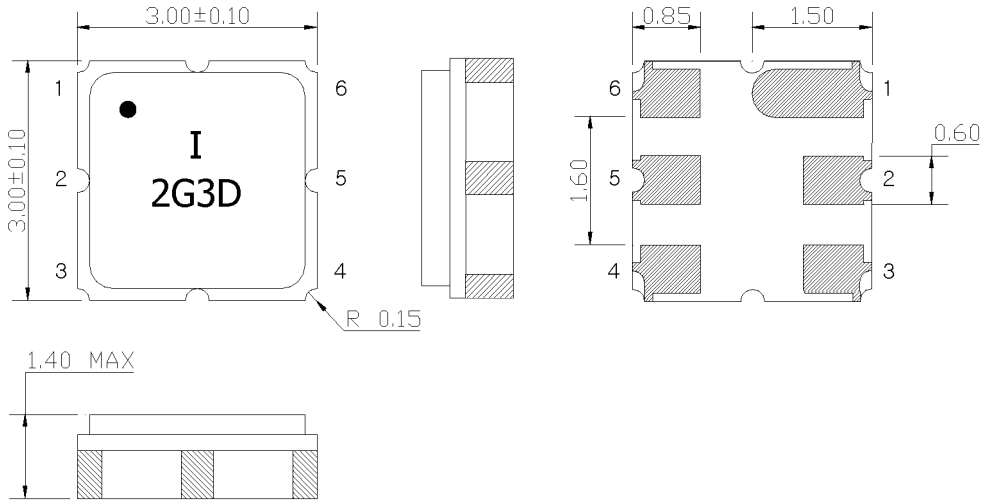
SAW Bandpass Filter F2G3D

Features

- RF Bandpass Filter
- 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
- This part is compliant with AEC-Q200

Package Dimensions



Dimensions shown are nominal in millimeters

Body : Al_2O_3 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	℃	-40	25	105
Storage Temperature Range	℃	-45	25	125
Power Handling Capability	dBm	-	-	10

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Specifications (Room Temperature : +25℃)

Fc = 2332.5 MHz

Room Temperature : +25℃	Minimum	Typical	Maximum	Unit
Center Frequency (Fc)	-	2332.5	-	MHz
Insertion Loss (2320 ~ 2345 MHz)	-	0.6	1.2	dB
Amplitude Ripple (2320 ~ 2345 MHz)	-	0.3	0.8	dB p-p
VSWR (2320 ~ 2345 MHz)	-	1.5	2.0	
Attenuation				dB
0.3 ~ 2085 MHz	20	25	-	
2097 ~ 2235 MHz	25	35	-	
@ 2100 MHz	30	40	-	
2235 ~ 2256 MHz	10	20	-	
@ 2400 MHz	20	33	-	
Input/Output Impedance		50		Ohms

Operating Temperature : -40℃ ~ +105℃	Minimum	Typical	Maximum	Unit
Center Frequency (Fc)	-	2332.5	-	MHz
Insertion Loss (2320 ~ 2345 MHz)	-	0.6	1.5	dB
Amplitude Ripple (2320 ~ 2345 MHz)	-	0.3	1.2	dB p-p
VSWR (2320 ~ 2345 MHz)	-	1.5	2.6	
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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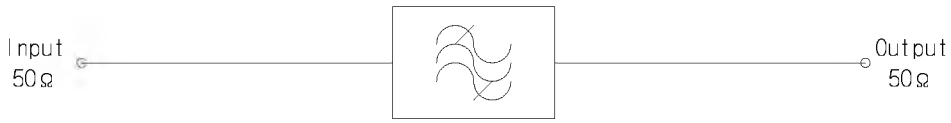
Matching Schematic

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



Marking Configuration

● [1)]

I[2)]

2G3D[3)]

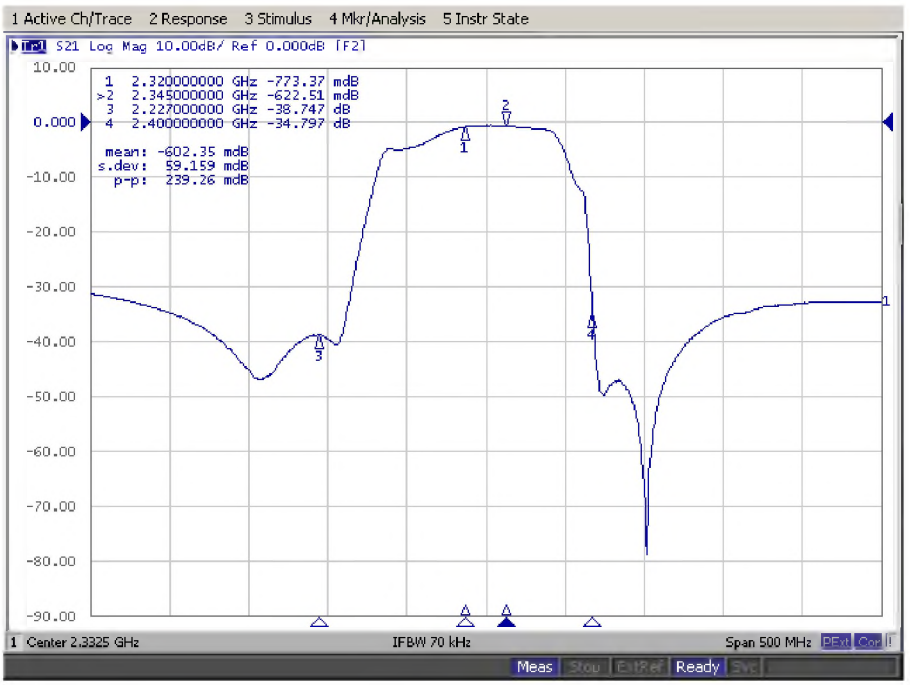
1) Pad Number 1 Index

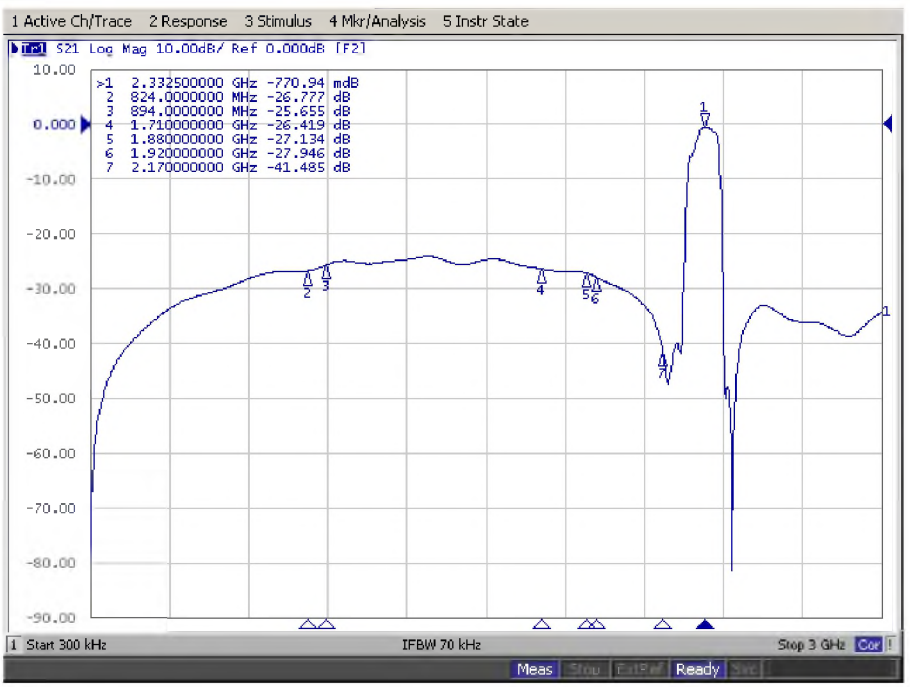
2) Manufacturer name

3) Marking Number

* Ink or Laser Marking available

Typical Performance (at 25℃)





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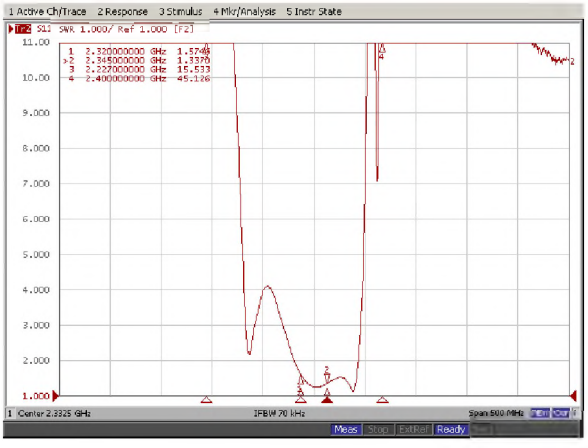
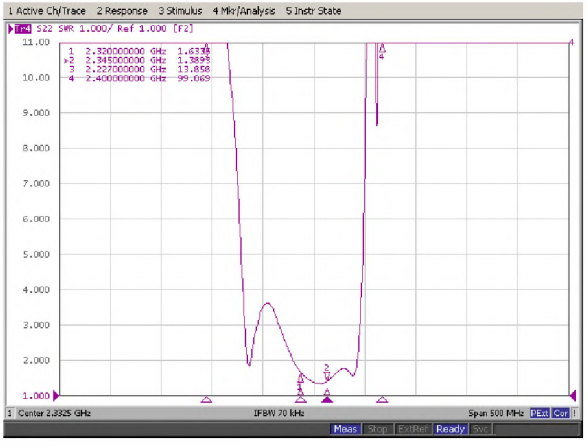
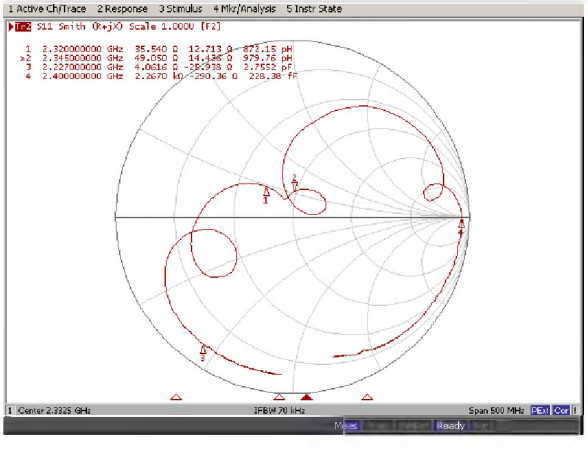
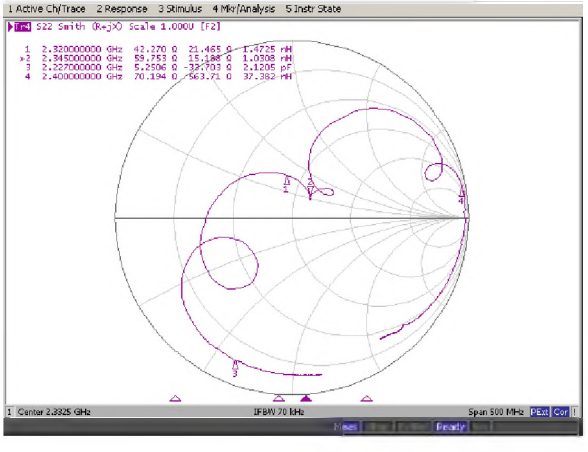
Input / Output VSWR





Input / Output Smith Charts





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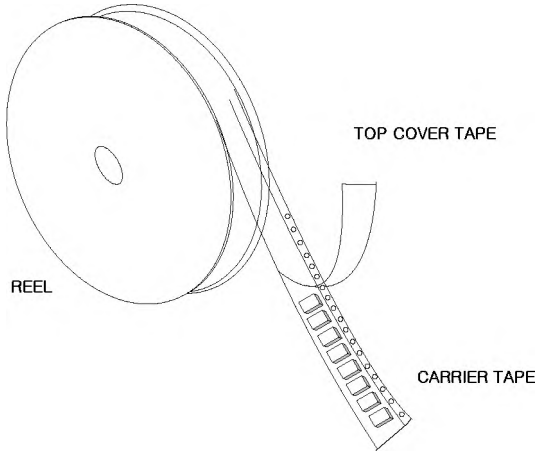
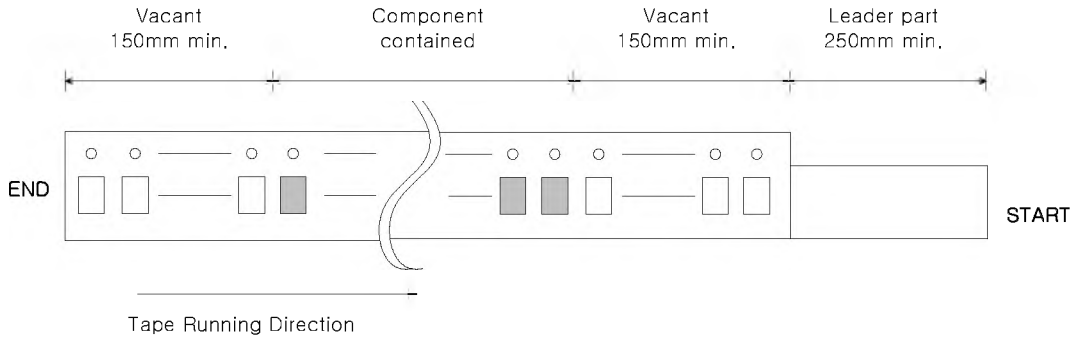
Packing Specifications

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

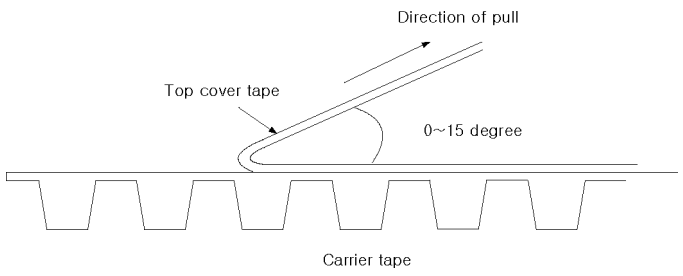
   4.4N/mm width

3. Top cover tape adhesion

   1) pull off angle : 0~15°

   2) speed : 300mm/min

   3) force : 20~70g



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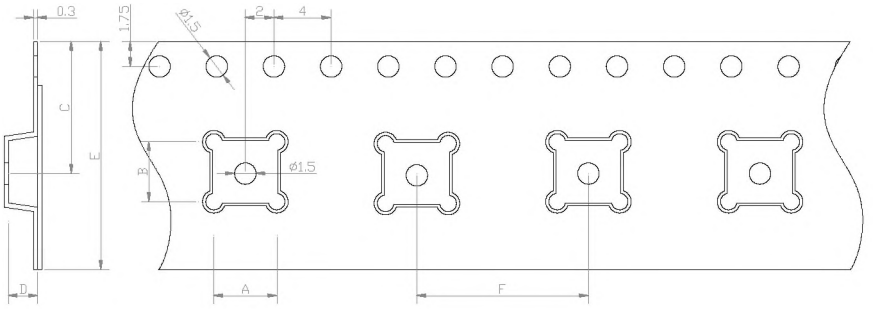
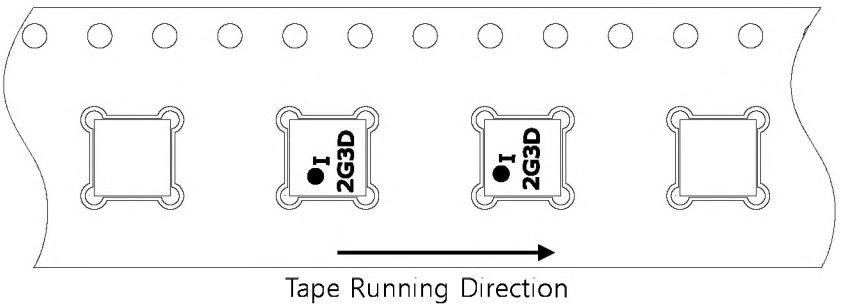
Carrier Tape Dimensions [unit : mm]



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]