

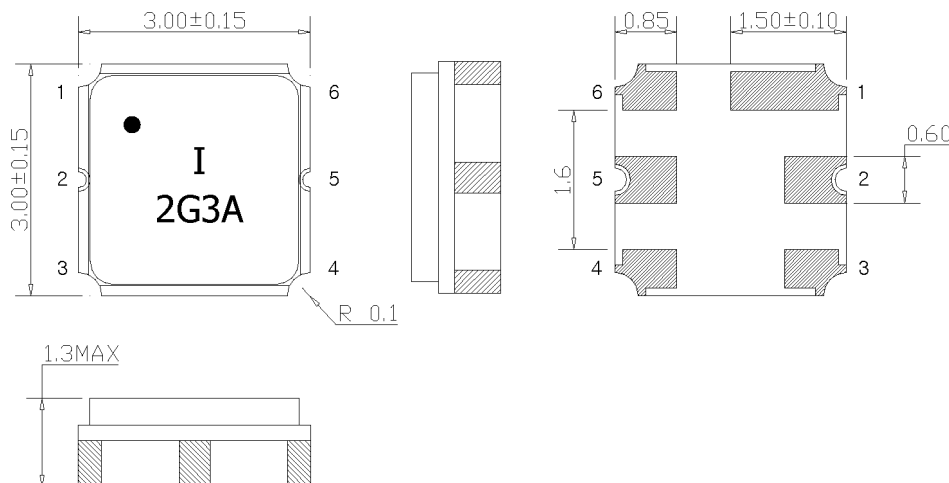
SAW Bandpass Filter F2G3A



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/RoHS2 (2015/863/EU) 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 μm , Over a 1.27 ~ 8.89 μm
Ni Plating

Pin Configurations

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

Maximum Ratings

Parameters	Unit	Minimum	Typical	Maximum
Operating Temperature Range	$^{\circ}\text{C}$	-40	25	105
Storage Temperature Range	$^{\circ}\text{C}$	-45	25	125
Power Handling Capability	dBm	-	-	10

Electrostatics Sensitive Device (ESD)

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Specifications

$F_c = 2332.5 \text{ MHz}$

	Minimum	Typical	Maximum	Unit
Center Frequency (F_c)	-	2332.5	-	MHz
Insertion Loss (2320 ~ 2345 MHz)	-	1.5	2.5	dB
Amplitude Ripple (2320 ~ 2345 MHz)	-	0.5	1.0	dB p-p
Return Loss (2320 ~ 2345 MHz)	9.0	9.5	-	dB
Attenuation 0.3 ~ 2085 MHz 2097 ~ 2235 MHz @ 2100 MHz 2235 ~ 2256 MHz @ 2400 MHz	25 25 40 15 40	30 36 45 29 50	- - - - -	dB
Input/Output Impedance		50		Ohms

Notes :

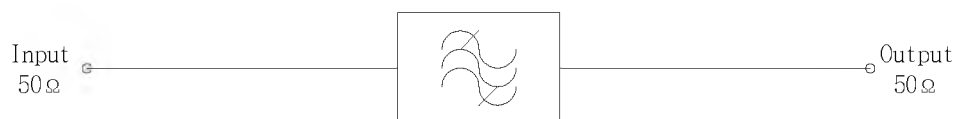
- 1) All specifications are based on the matching schematic shown below, measured by Agilent Network analyzer and full 2 port calibration.
- 2) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
- 3) All attenuation measurements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

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Matching Schematic

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



Marking Configuration

1)
●

I²⁾

2G3A³⁾

1) Pad Number 1 Index

2) Manufacturer name

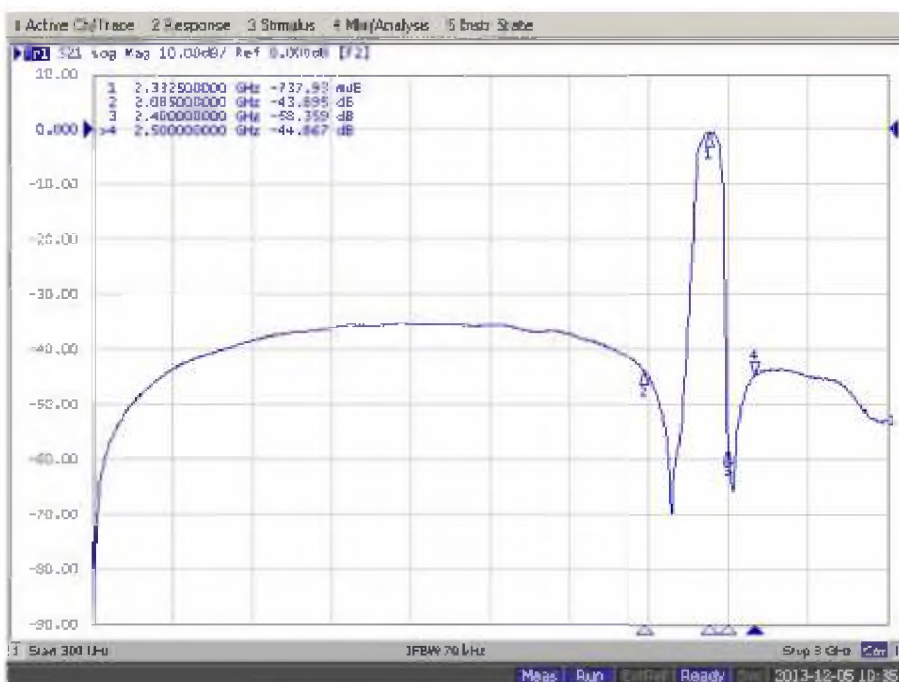
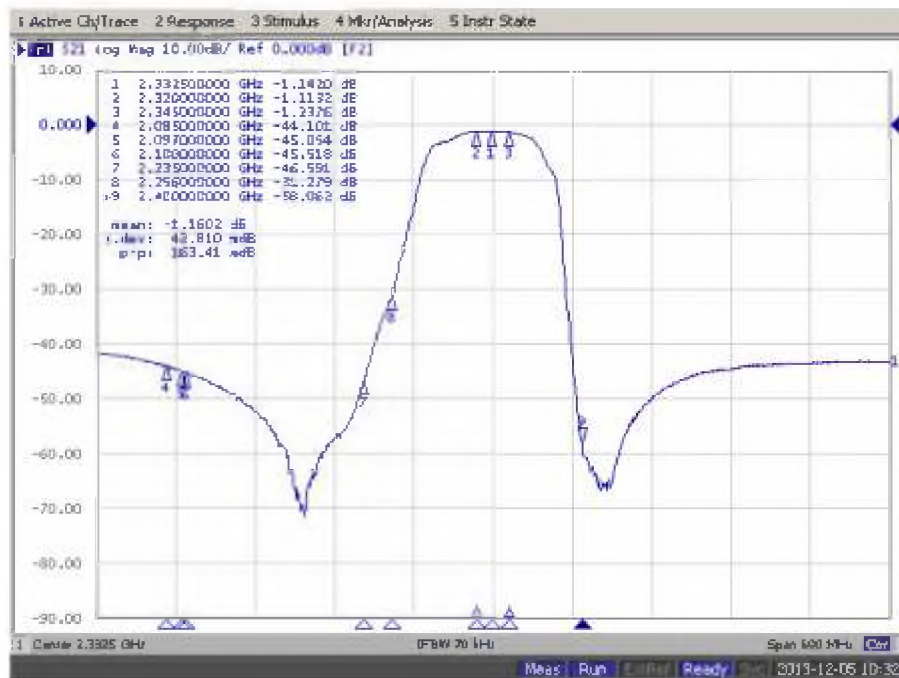
3) Marking Number

* Ink or Laser Marking available

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Typical Performance (at 25°C)



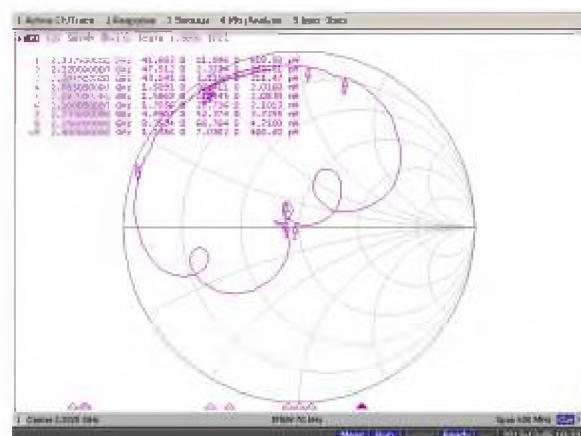
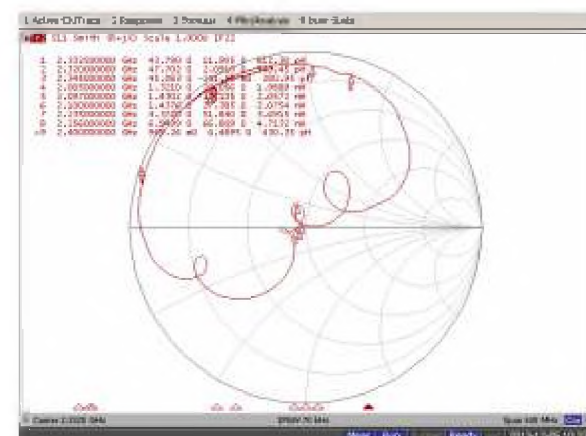
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Input / Output Return Loss



Input / Output Smith Charts

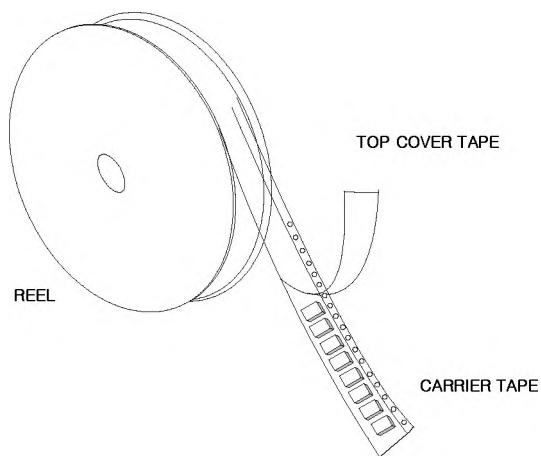


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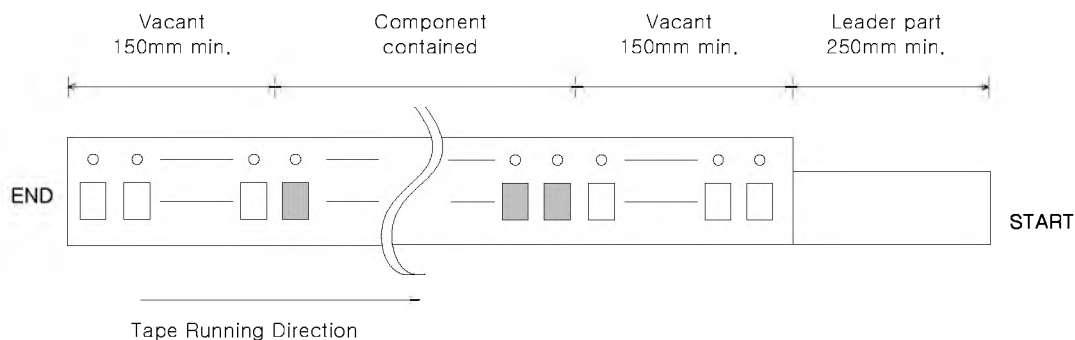
Packing Specifications

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

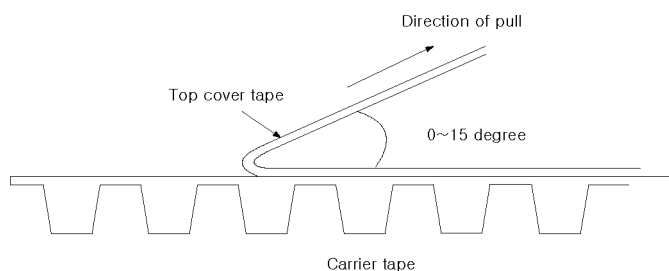
4.4N/mm width

3. Top cover tape adhesion

1) pull off angle : 0~15°

2) speed : 300mm/min

3) force : 20~70g



SAW
DEVICE

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

Diagram illustrating a tape with four frames. The second and third frames contain a black dot, the letter 'I', and the code '2G3A'. An arrow below the tape points to the right, labeled 'Tape Running Direction'.