

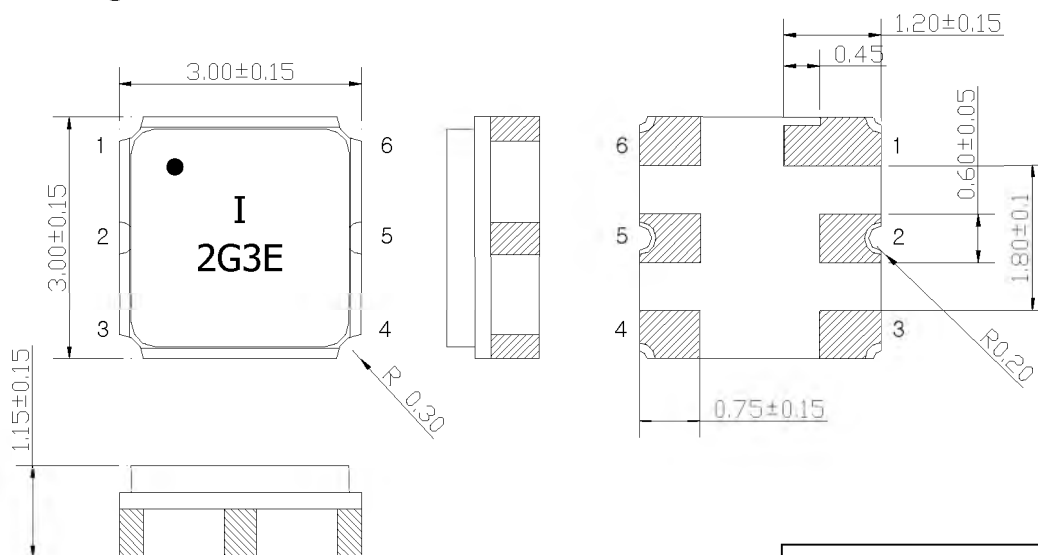
SAW Bandpass Filter F2G3E



Features

- Low-loss RF filter for digital radio
- No matching 50Ω single-ended operation
- Ceramic Surface Mounted Device (SMD) Package (3.0 mm * 3.0 mm)
- RoHS Compliant
- This part is compliant with AEC-Q200

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 μm, Over a 1.27 ~ 8.89 μm
Ni Plating

Pin Configuration

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

Maximum Ratings

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

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Preliminary Specifications

$$F_c = 2332.5 \text{ MHz}$$

	Minimum	Typical	Maximum	Unit
Center Frequency (F_c)	-	2332.5	-	MHz
Insertion Loss (2320 ~ 2345 MHz)	-	0.65	0.95	dB
Amplitude Ripple (2320 ~ 2345 MHz)	-	0.2	0.5	dB p-p
VSWR (2320 ~ 2345 MHz)	-	1.4	1.8	
Attenuation				
824 ~ 894 MHz	15.0	22.0	-	dB
1710 ~ 1755 MHz	16.0	18.5	-	
1850 ~ 1990 MHz	16.0	18.5	-	
2400 ~ 2415 MHz	15.0	35.0	-	
2415 ~ 2600 MHz	15.0	20.0	-	
Input/Output Impedance		50		Ohms

Notes :

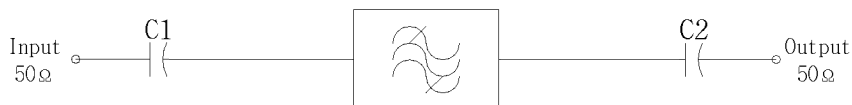
- 1) All specifications are based on the matching schematic shown below, measured by Agilent Network analyzer and full 2 port calibration.
- 2) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
- 3) All attenuation measurements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

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Matching Schematic

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



C1, C2 = 3.3 pF

Marking Configuration

1)
●
I²⁾
2G3E³⁾

1) Pad Number 1 Index

2) Manufacturer name

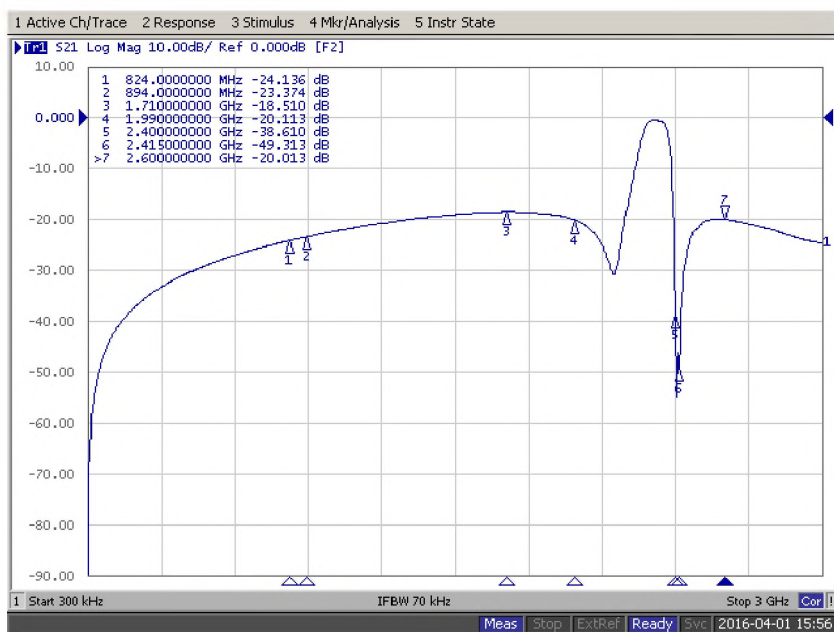
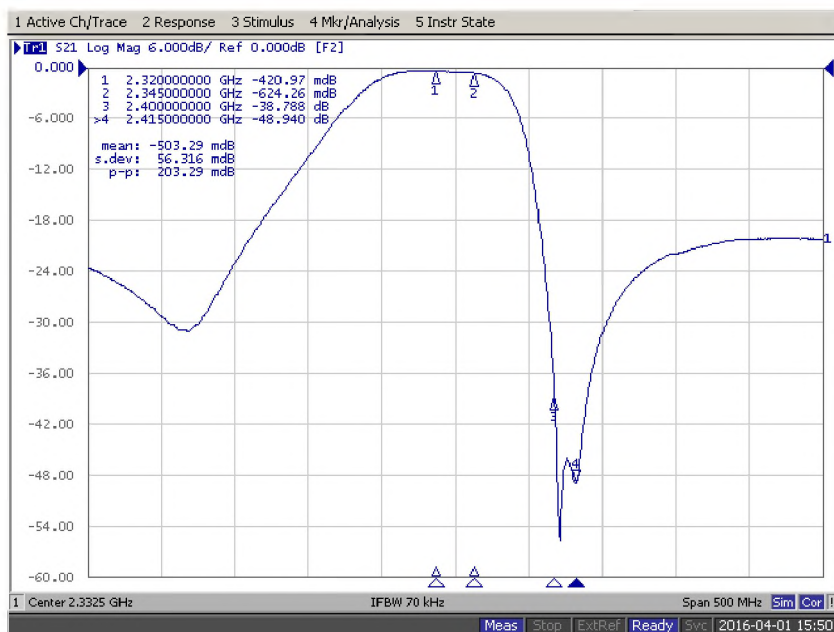
3) Marking Number

* Ink or Laser Marking available

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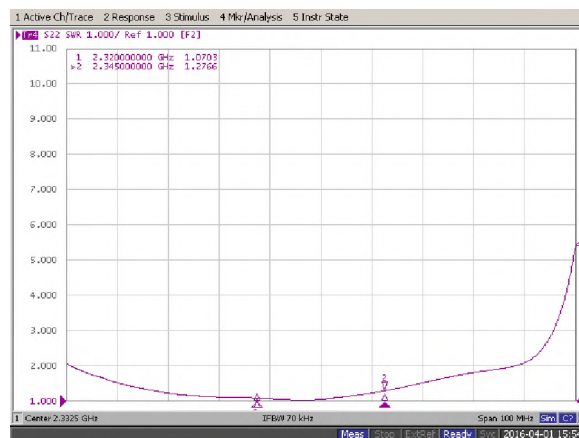
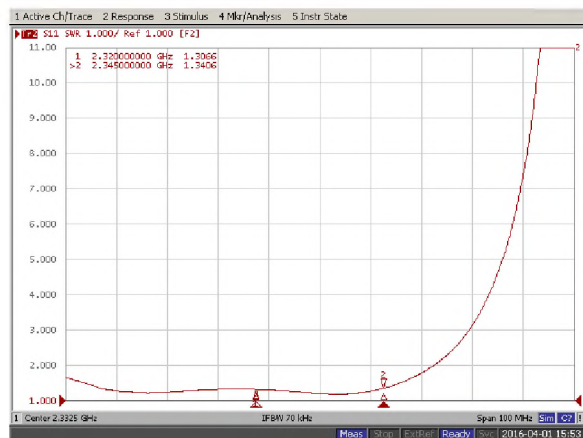
Typical Performance (at 25°C)



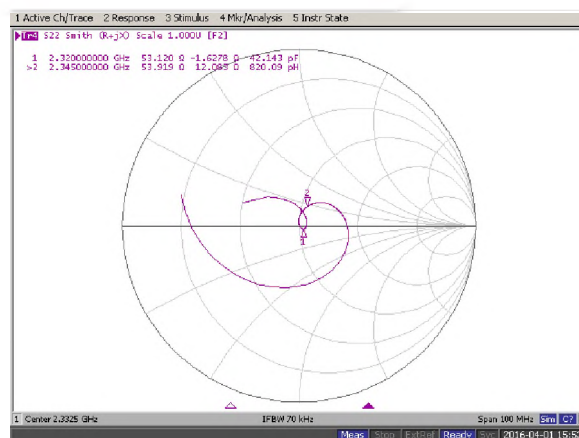
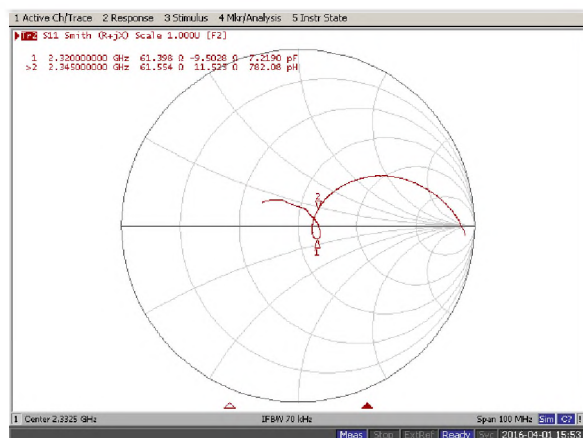
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Input / Output VSWR Charts



Input / Output Smith Charts

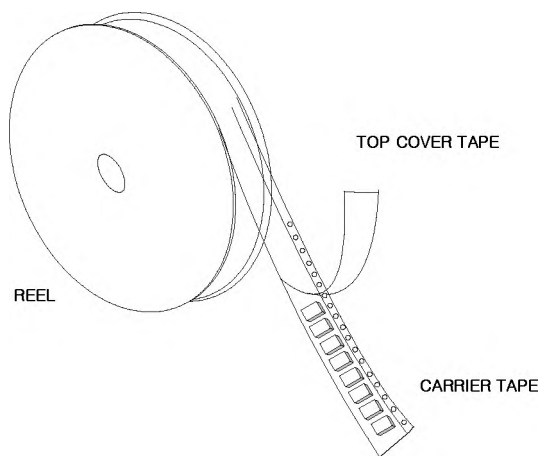


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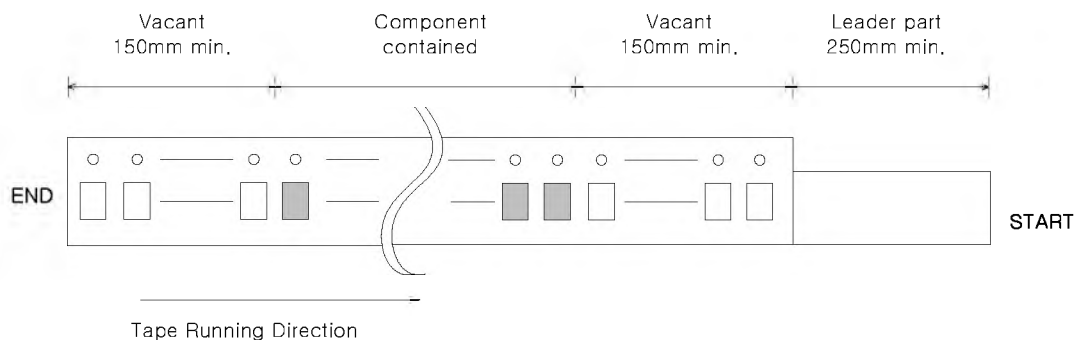
Packing Specifications

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

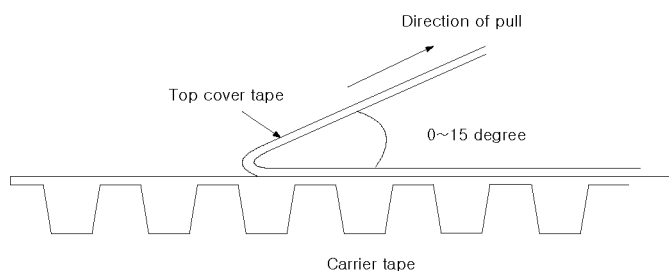
4.4N/mm width

3. Top cover tape adhesion

1) pull off angle : 0~15°

2) speed : 300mm/min

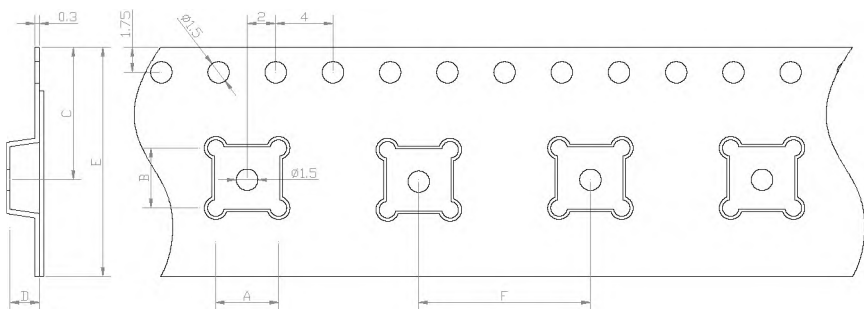
3) force : 20~70g



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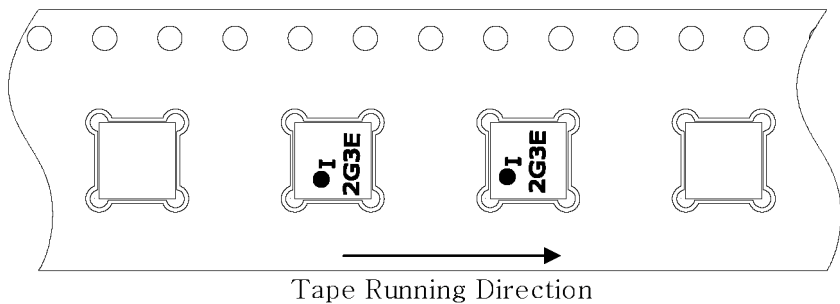


Carrier Tape Dimensions [unit : mm]



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]

