

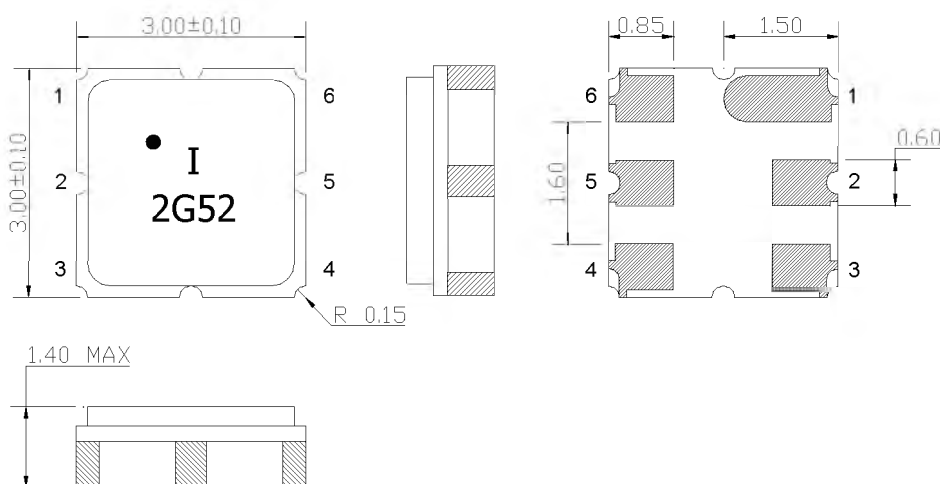
SAW Bandpass Filter F2G52



Features

- RF Bandpass Filter
- High attenuation
- No matching 50Ω single-ended operation
- Ceramic Surface Mounted Device (SMD) Package (3.0 mm * 3.0 mm)
- RoHS Compliant

Package Dimensions



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	95
Power Handling Capability	dBm	-	-	10

Electrostatics Sensitive Device (ESD)

SAW Bandpass Filter F2G52



Specifications

$F_c = 2580 \text{ MHz}$

	Minimum	Typical	Maximum	Unit
Center Frequency (F_c)	-	2580	-	MHz
Insertion Loss (2565 ~ 2595 MHz)	-	2.9	3.5	dB
Amplitude Ripple (2565 ~ 2595 MHz)	-	1.0	2.2	dBp-p
Return Loss (2565 ~ 2595 MHz)	9	15	-	dB
Relative Attenuation				
2100 ~ 2450 MHz	35	45	-	dB
2680 ~ 2840 MHz	40	55	-	
2840 ~ 3000 MHz	35	50	-	
Input/Output Impedance		50		Ohms

Notes :

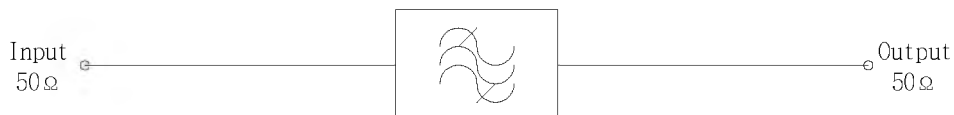
- 1) All specifications are based on the matching schematic shown below, measured by Agilent Network analyzer and full 2 port calibration.
- 2) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances

SAW Bandpass Filter F2G52



Matching Schematic

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



Marking Configuration

1)
●
I 2)
2G52 3)

1) Pad Number 1 Index

2) Manufacturer name

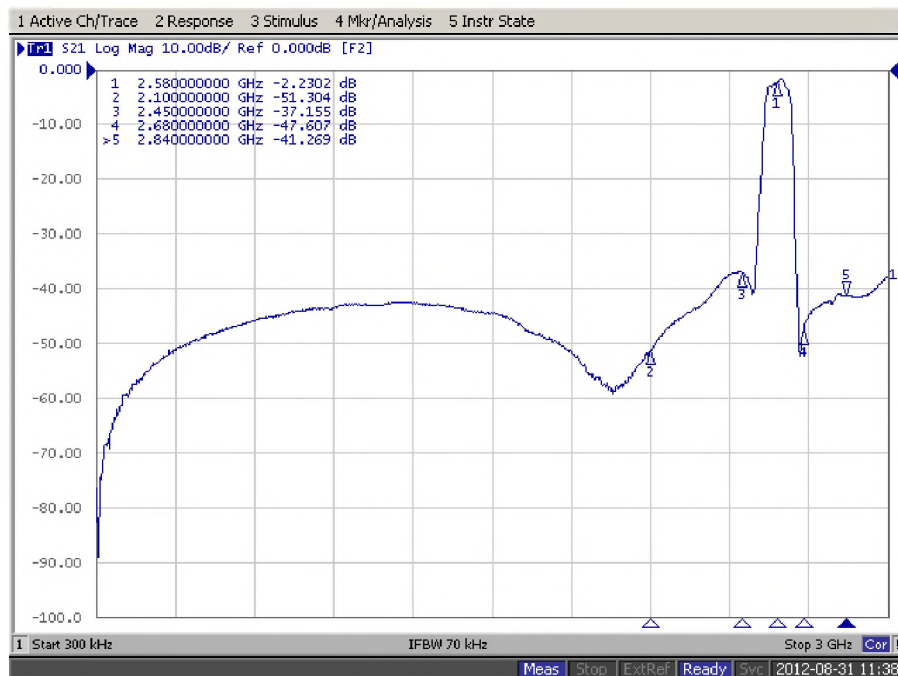
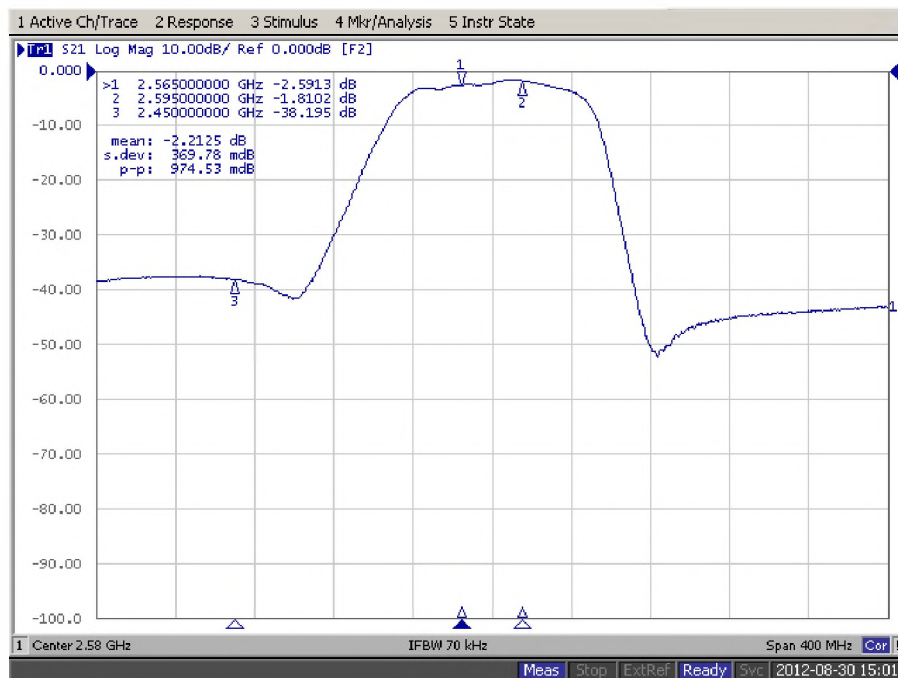
3) Marking Number

* Ink or Laser Marking available

SAW Bandpass Filter F2G52



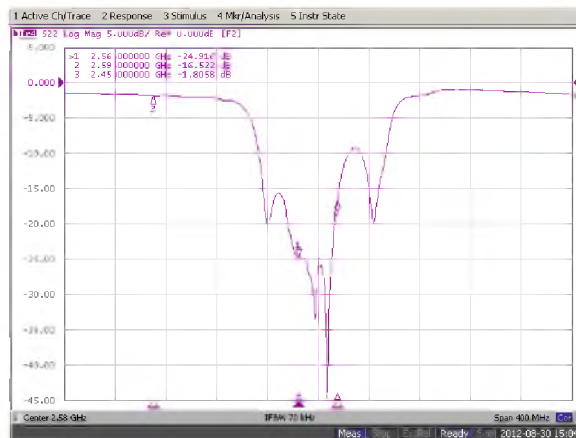
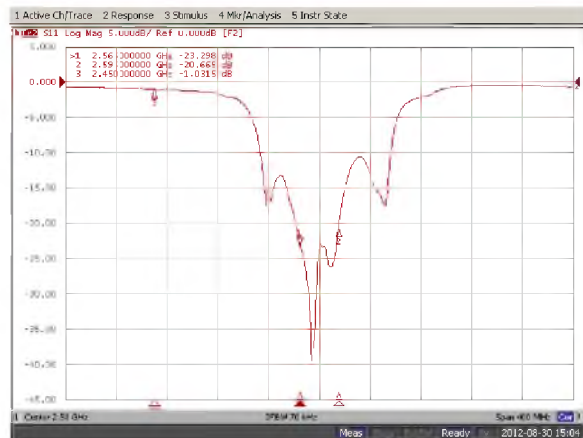
Typical Performance (at 25°C)



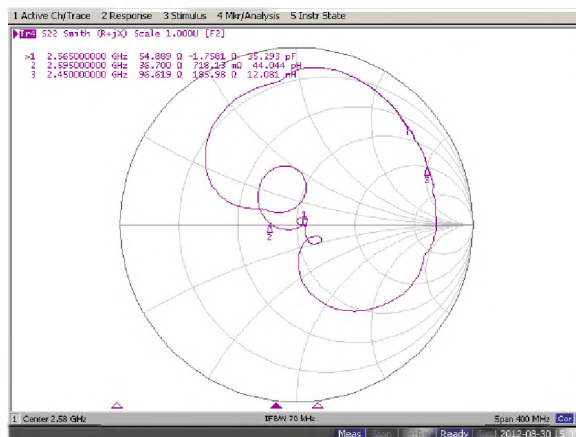
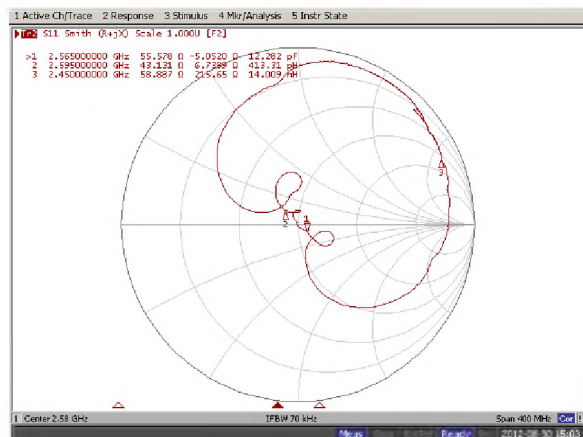
SAW Bandpass Filter F2G52



Input / Output Return Loss Charts



Input / Output Smith Charts

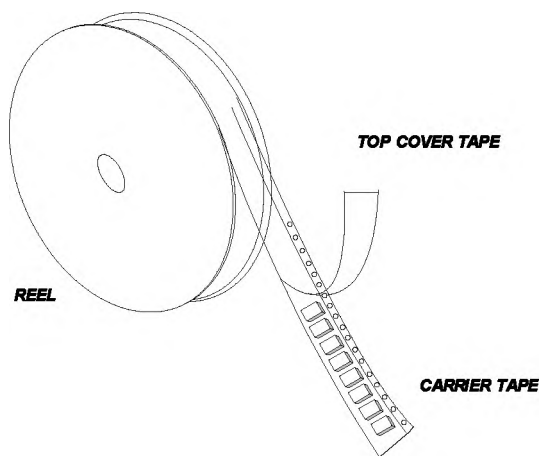


SAW Bandpass Filter F2G52



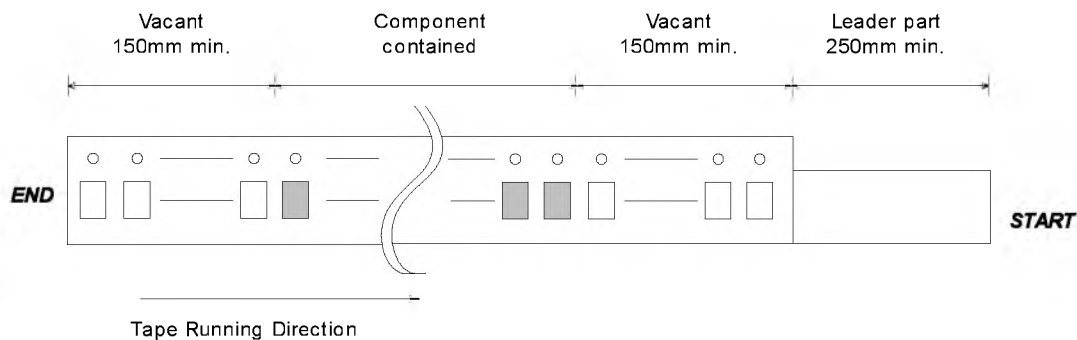
Packing Specification

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

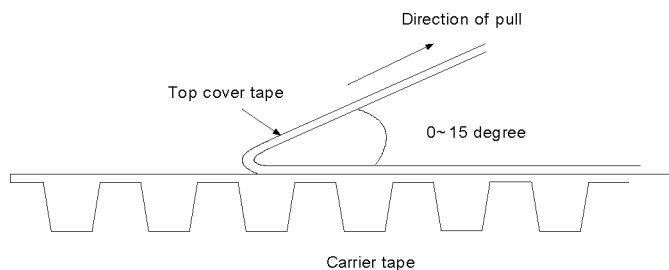


2. Tensile strength of carrier tape

4.4N/mm width

3. Top cover tape adhesion

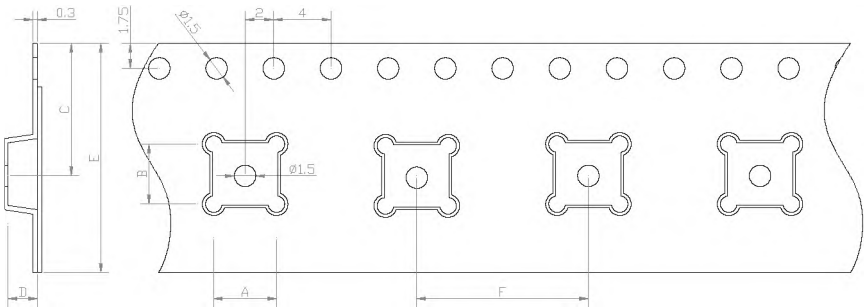
- 1) pull off angle : 0~15°
- 2) speed : 300mm/min
- 3) force : 20~70g



SAW Bandpass Filter F2G52

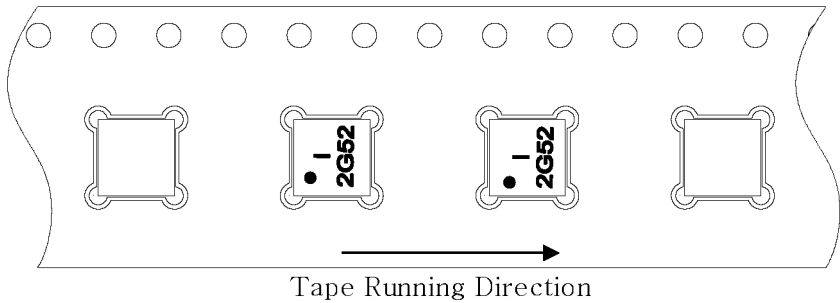


Carrier Tape Dimensions [unit : mm]



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]

