

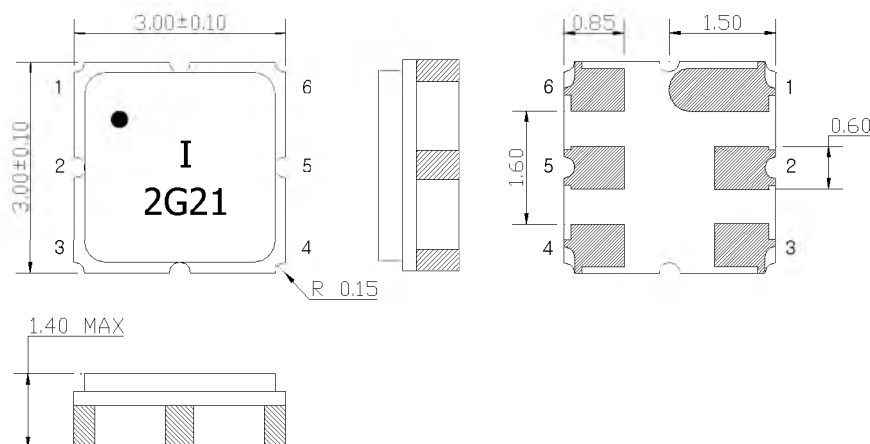
SAW Bandpass Filter F2G21



Features

- RF Bandpass Filter
- Usable bandwidth of 60 MHz
- 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

Package Dimensions



Dimensions shown are nominal in millimeters

Body : Al₂O₃ Ceramic

Lid : Kovar, Ni Plated

Terminations : Au plating 0.3 ~ 1.0 μ m, Over a 1.27 ~ 8.89 μ m
Ni Plating

Pin Configurations

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

Maximum Ratings

Parameters	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-20	25	70
Storage Temperature Range	°C	-40	-	85
Power Handling Capability	dBm	-	-	10

Electrostatics Sensitive Device (ESD)

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Specifications

	Minimum	Typical	Maximum	Unit
Center Frequency (Fc)	-	2245.0	-	MHz
Insertion Loss (In Fc +/- 30.0 MHz)	-	5.0	6.5	dB
Amplitude Ripple (In Fc +/- 30.0 MHz)	-	1.1	2.5	dBp-p
VSWR (In Fc +/- 30.0 MHz)	-	1.7	2.3	
Relative Attenuation 2025.0 MHz ~ 2100.0 MHz 2375.0 MHz ~ 2490.0 MHz	30.0 20.0	40.0 40.0	- -	dB
Temperature Range (Operational)	-20	25	70	°C
Input RF Power (In Fc +/- 30.0 MHz)			10	dBm
Input/Output Impedance		50		Ohms

Notes :

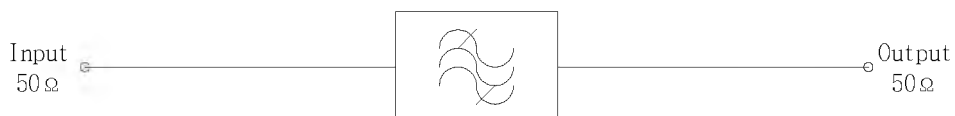
- 1) All specifications are based on the matching schematic shown below, measured by Agilent Network analyzer and full 2 port calibration.
- 2) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
- 3) All attenuation measurements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

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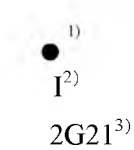


Matching Schematic

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



Marking Configuration



1) Pad Number 1 Index

2) Manufacturer name

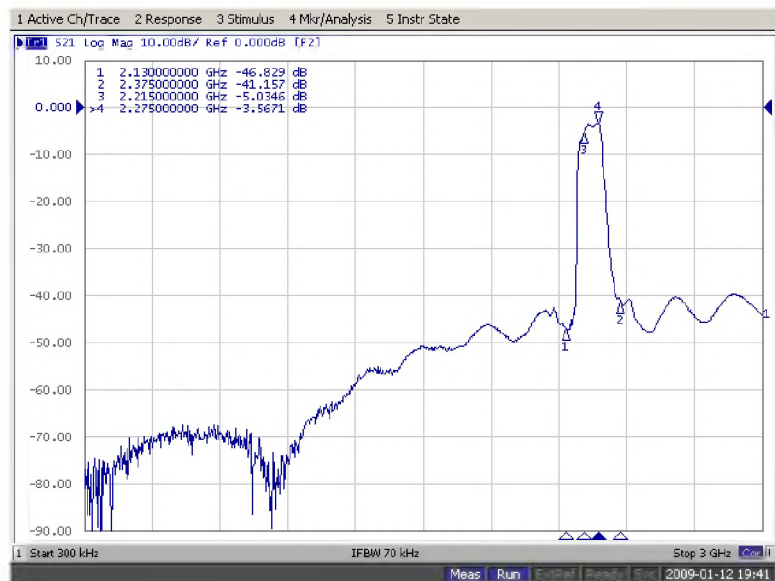
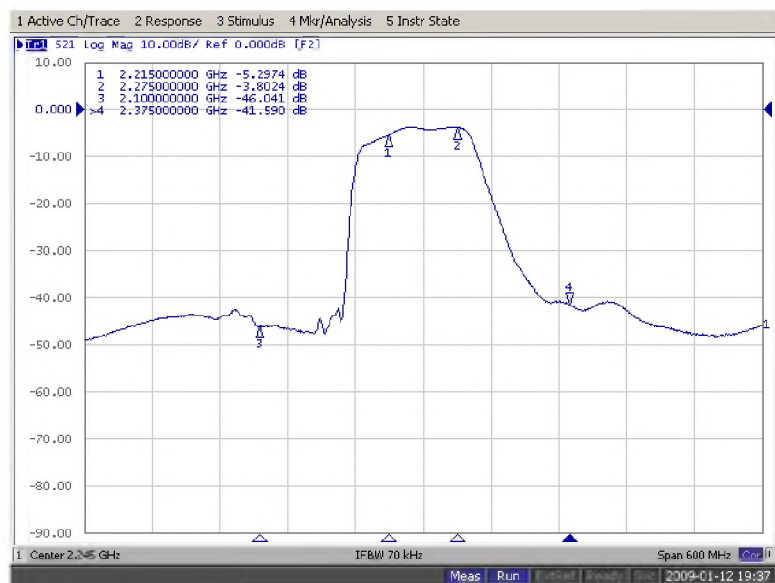
3) Marking Number

* Ink or Laser Marking available

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Typical Performance (at 25°C)



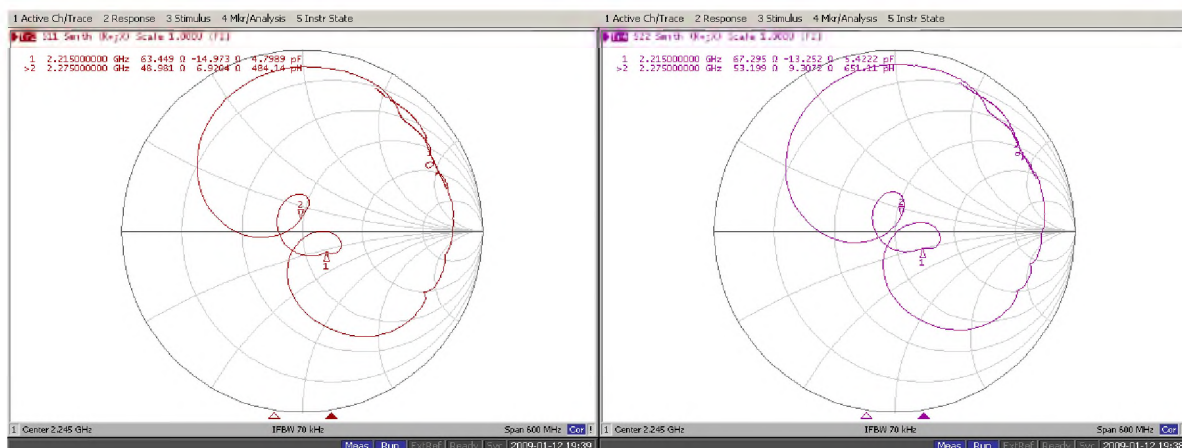
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Input / Output VSWR Charts



Input / Output Smith Charts

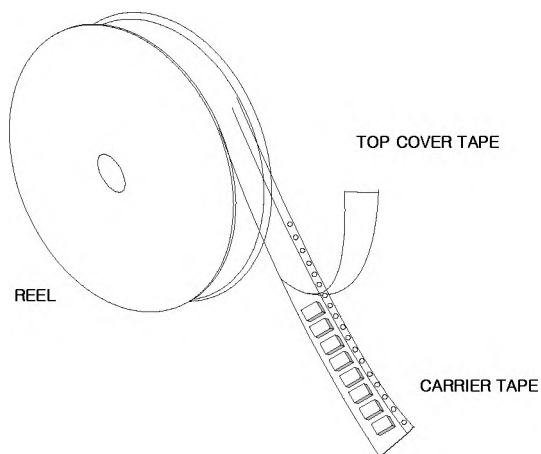


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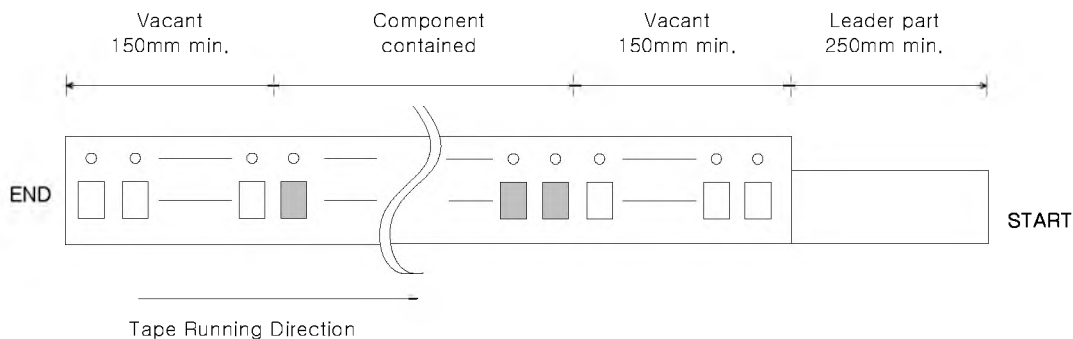
Packing Specification

1. Reeling Quantity : 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

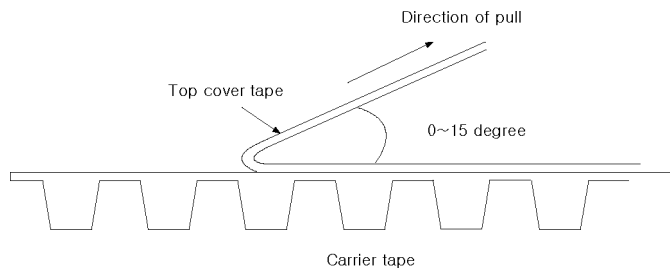
4.4N/mm width

3. Top cover tape adhesion

1) pull off angle : 0~15°

2) speed : 300mm/min

3) force : 20~70g



SAW
DEVICE

[illegible]

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

A diagram of a tape with four 2G21 labels. Each label is a rectangular box with rounded corners, containing a vertical line, a dot, and the text "2G21". The labels are arranged horizontally, and an arrow below them points to the right, labeled "Tape Running Direction".