

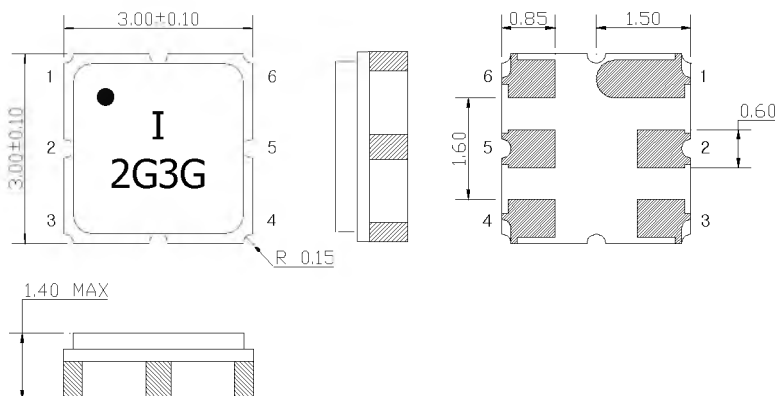
SAW Bandpass Filter F2G3G



Features

- RF bandpass filter
- Usable bandwidth 25.0 MHz
- Ceramic Surface Mounted Device (SMD) Package (3.0mm × 3.0mm)
- RoHS/RoHS2 (2015/863/EU) Compliant
- Compliant with AEC-Q200

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

Pin Configuration	
2	Input
5	Output
1, 3, 4, 6	Ground

Maximum Ratings

Parameter	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	25	105
Storage Temperature Range	°C	-45	-	125
Power Handling Capability	dBm	-	-	10

Electrostatics Sensitive Device (ESD)

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Specifications

$F_c = 2332.5 \text{ MHz}$

		Minimum	Typical	Maximum
Center Frequency (F_c)	MHz	-	2332.5	-
Insertion Loss ($F_c \pm 12.5 \text{ MHz}$)	dB	-	0.35	0.70
Amplitude Ripple ($F_c \pm 12.5 \text{ MHz}$)	dB	-	0.10	0.30
VSWR ($F_c \pm 12.5 \text{ MHz}$)	dB	-	1.20	1.70
Absolute attenuation				
698.0 ~ 894.0 MHz	dB	9	11	-
1710.0 ~ 1750.0 MHz		9	11	-
1850.0 ~ 1990.0 MHz		10	12	-
2400.0 ~ 2484.0 MHz		8	15	-
2496.0 ~ 2690.0 MHz		12	14	-
3400.0 ~ 3500.0 MHz		15	20	-
Input/Output impedance	Ohm	-	50	-

Notes :

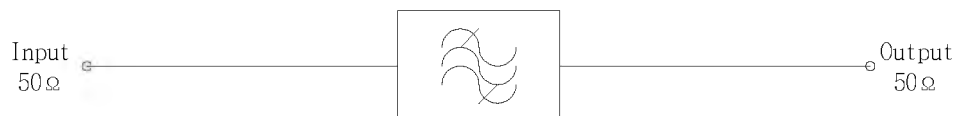
- 1) All specifications are based on the matching schematic shown below, measured by Agilent Network analyzer and full 2 port calibration.
- 2) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances

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Matching Schematic

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



Marking Configuration

1)
●
I 2)
2G3G 3)

1) Pad Number 1 Index

2) Manufacturer name

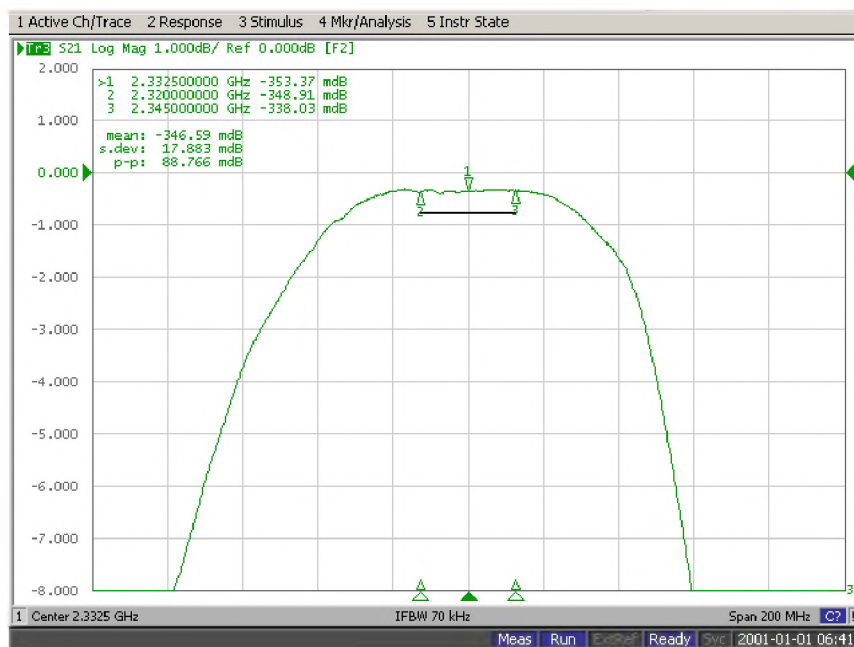
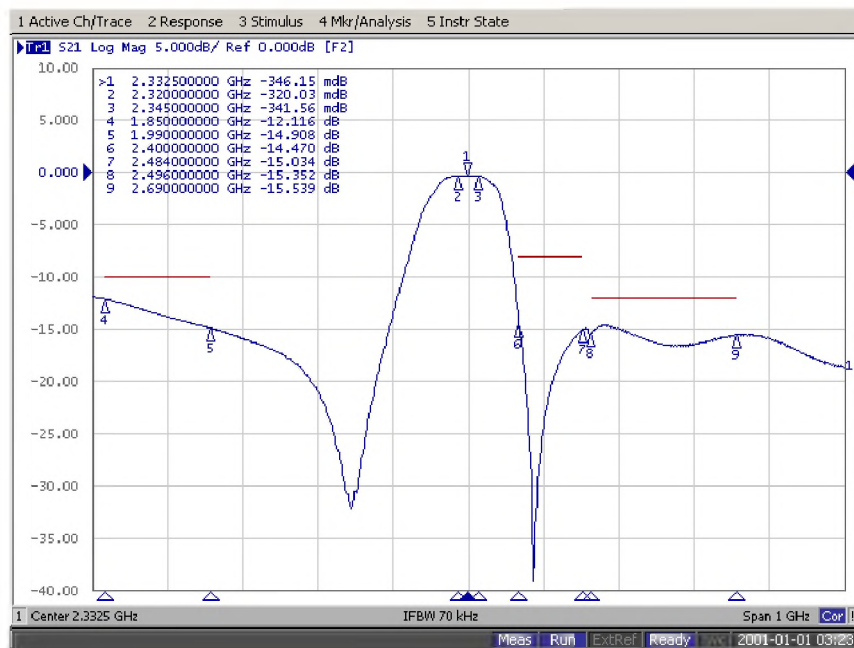
3) Marking Number

* Ink or Laser Marking available

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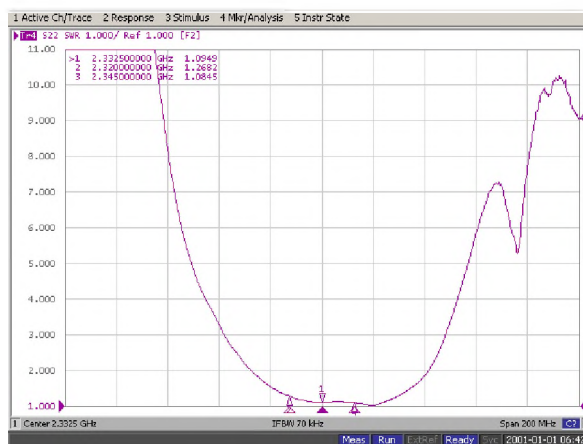
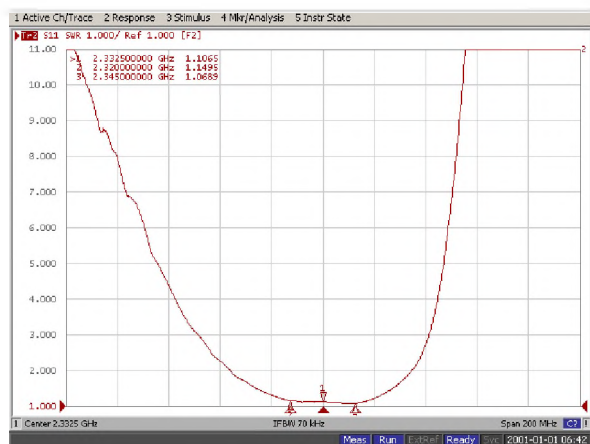
Typical Performance (at 25°C)



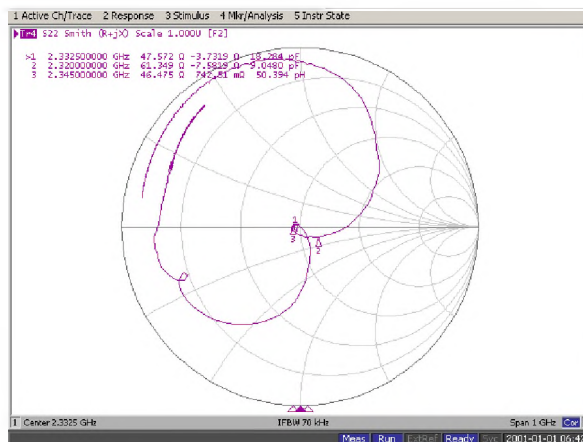
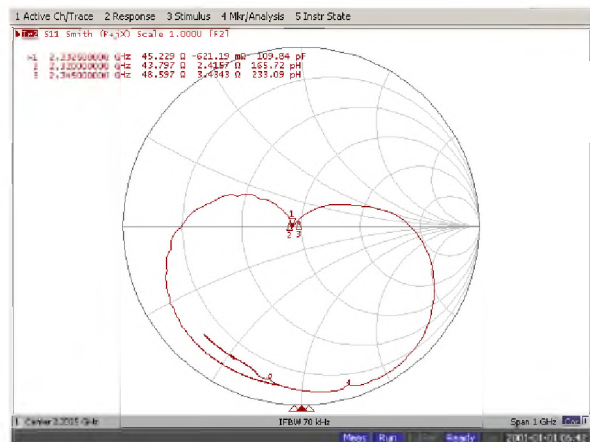
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Input / Output VSWR Charts



Input / Output Smith Charts

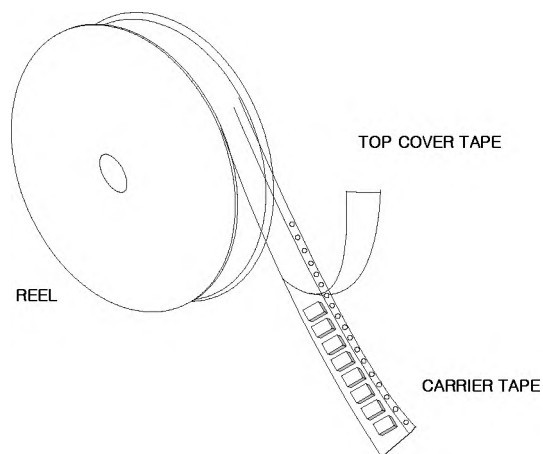


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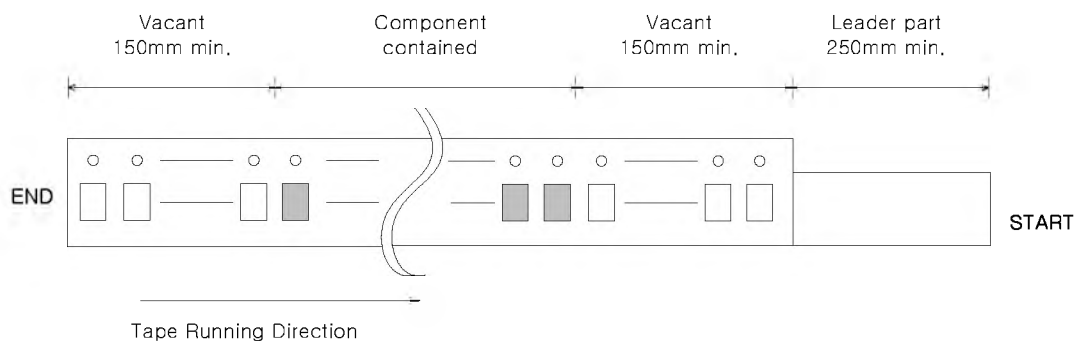
Packing Specification

1. Reeling Quantity : 1000 pcs / 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

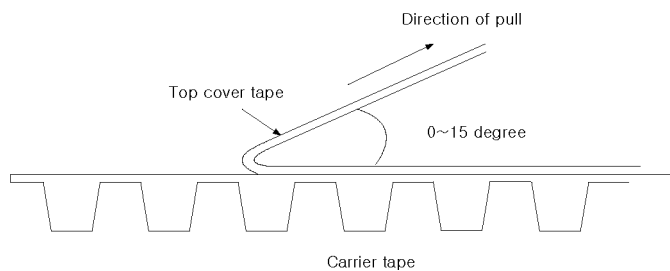
4.4N/mm width

3. Top cover tape adhesion

1) pull off angle : 0~15°

2) speed : 300mm/min

3) force : 20~70g



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 magnetic tape with four 263G labels. Each label is a square with rounded corners and a double border. Inside each label, there is a dot followed by a vertical line and the text "263G". An arrow below the tape points to the right, labeled "Tape Running Direction".