

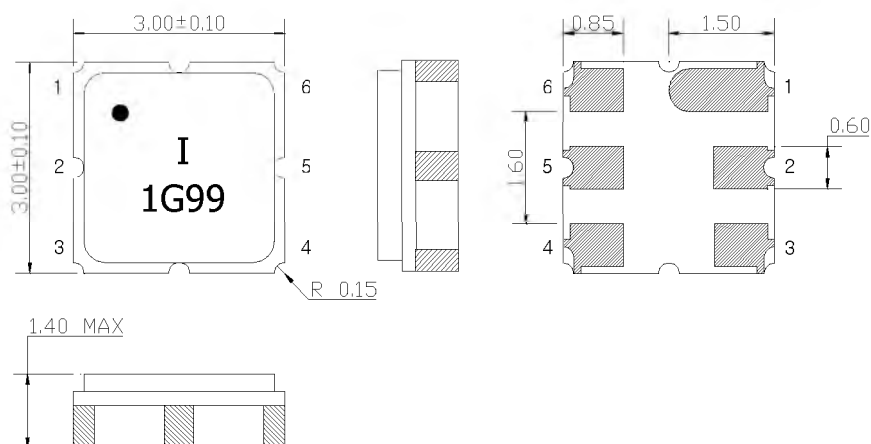
SAW Bandpass Filter F1G99



Features

- RF bandpass filter
- Usable bandwidth 65 MHz
- High attenuation
- No matching 50Ω single-ended operation
- Ceramic Surface Mounted Device 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 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	°C	-20	25	70
Storage Temperature Range	°C	-40	-	85
Power Handling Capability	dBm	-	-	12

Electrostatics Sensitive Device (ESD)

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Specifications

$F_c = 1962.5 \text{ MHz}$

	Minimum	Typical	Maximum	Unit
Center Frequency (F_c)	-	1962.5	-	MHz
Insertion Loss (In $F_c \pm 32.5 \text{ MHz}$)	-	2.6	3.8	dB
Amplitude Ripple (In $F_c \pm 32.5 \text{ MHz}$)	-	1.4	2.3	dB
VSWR (In $F_c \pm 32.5 \text{ MHz}$)	-	2.0	2.5	
Attenuation (Reference level from 0dB)				
1710.0 MHz ~ 1755.0 MHz	10	32	-	dB
1855.0 MHz ~ 1915.0 MHz	5	11	-	
2010.0 MHz ~ 2020.0 MHz	5	8	-	
Temperature Range (Operational)	-20	25	70	°C
Input/Output Impedance		50		Ohms

Notes :

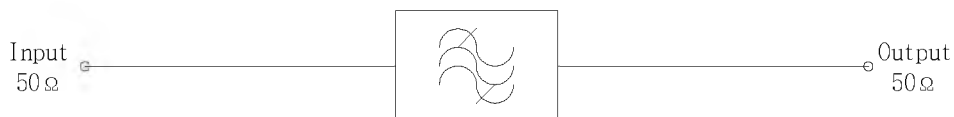
- 1) All specifications are based on the matching schematic shown below, measured by Agilent Network analyzer and full 2 port calibration.
- 2) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
- 3) All attenuation measurements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

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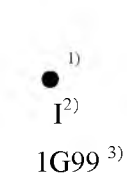


Matching Schematic

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



Marking Configuration



1) Pad Number 1 Index

2) Manufacturer name

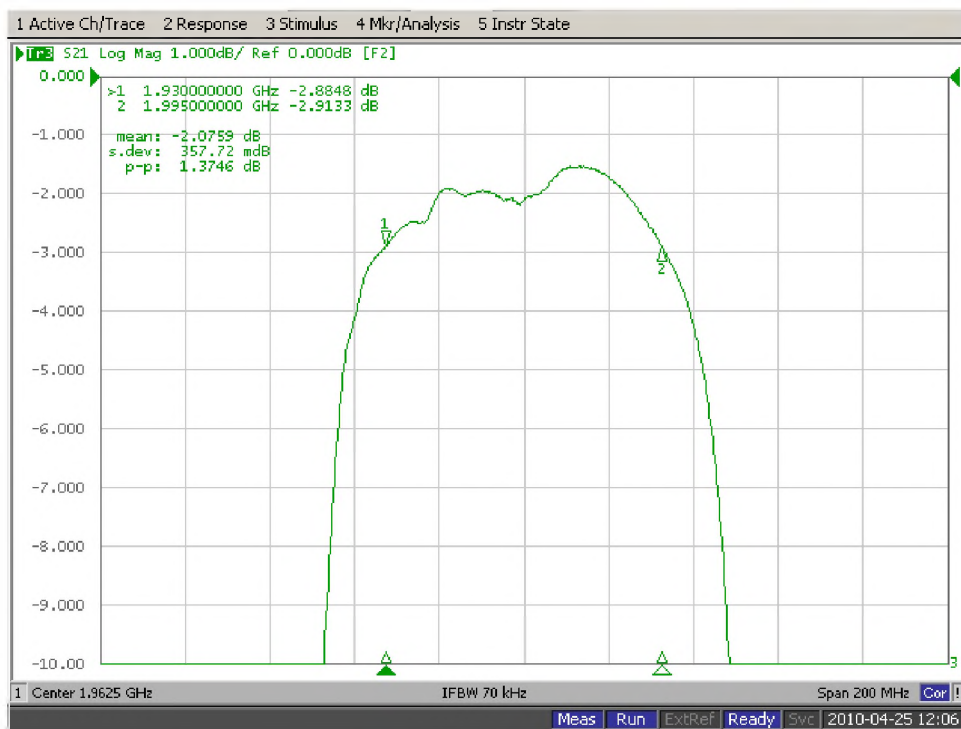
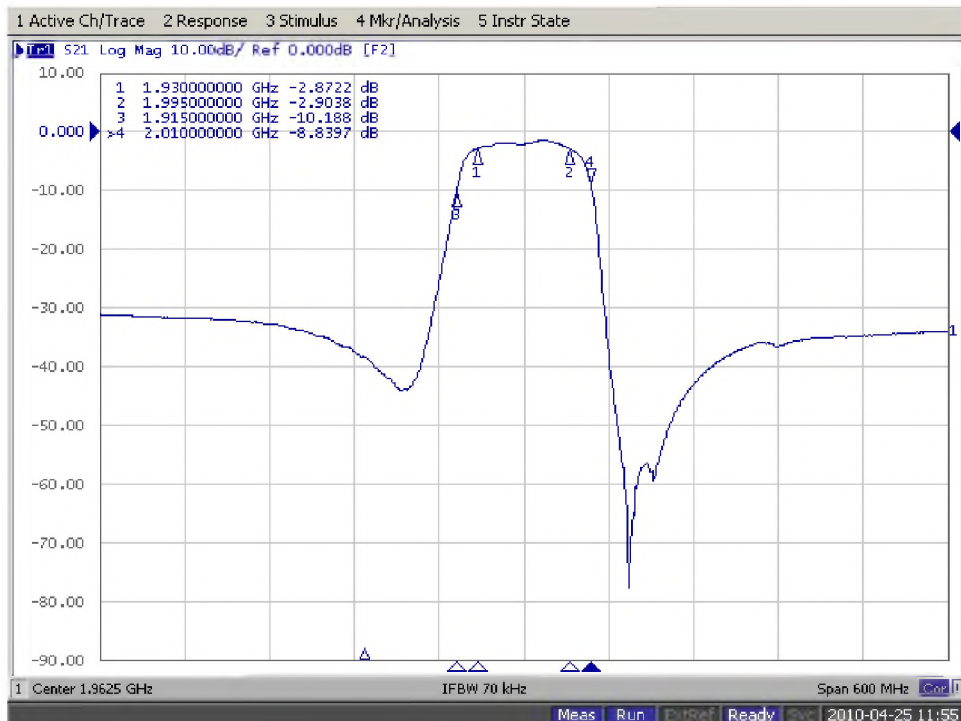
3) Marking Number

* Ink or Laser Marking available

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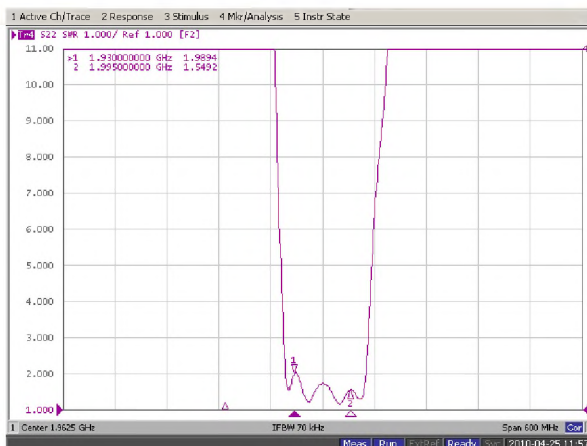
Typical Performance (at 25°C)



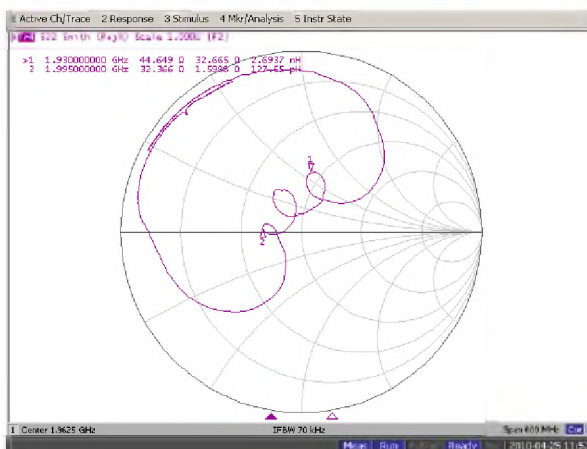
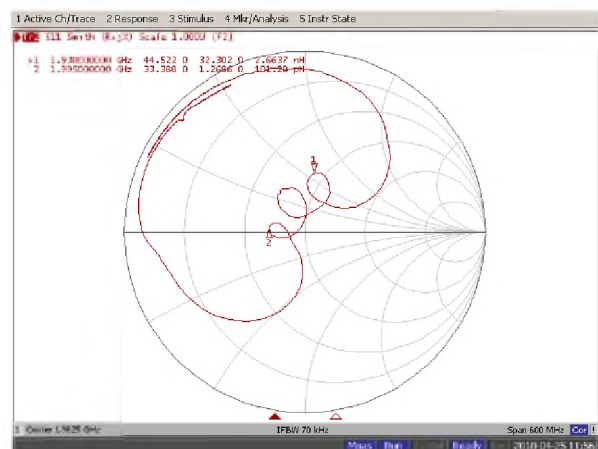
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Input / Output VSWR Charts



Input / Output Smith Charts

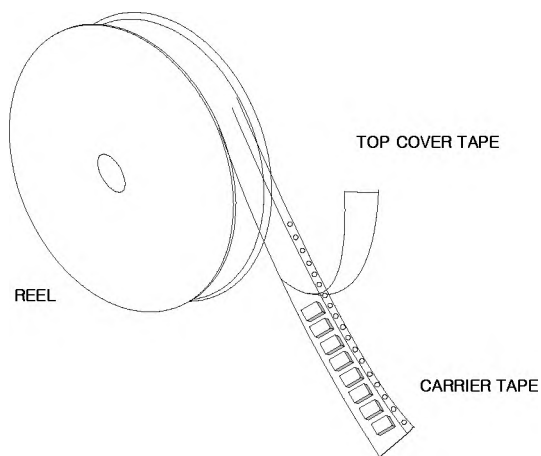


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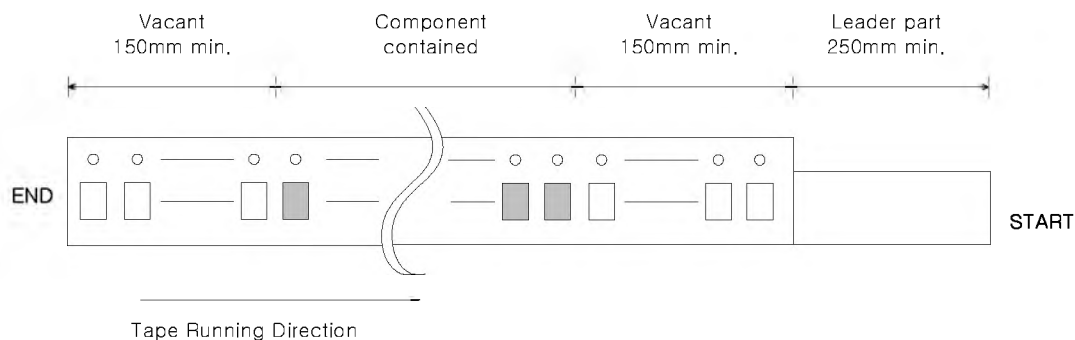
Packing Specification

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

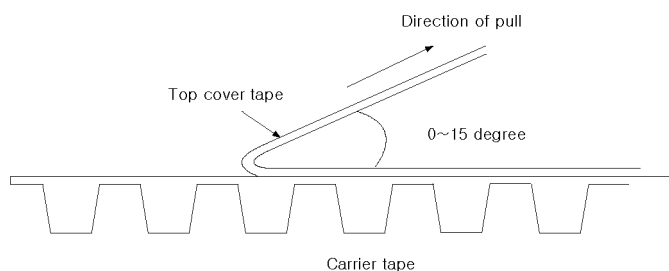
4.4N/mm width

3. Top cover tape adhesion

1) pull off angle : 0~15°

2) speed : 300mm/min

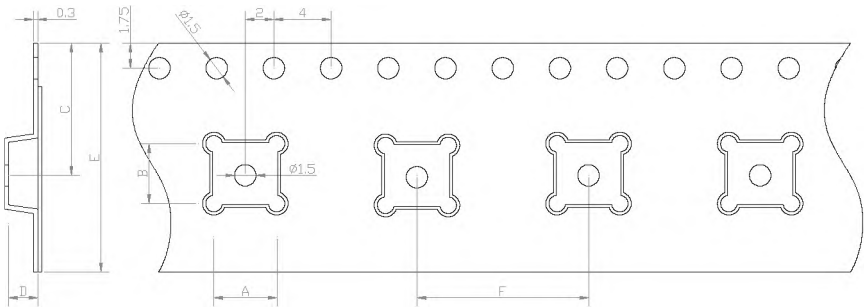
3) force : 20~70g



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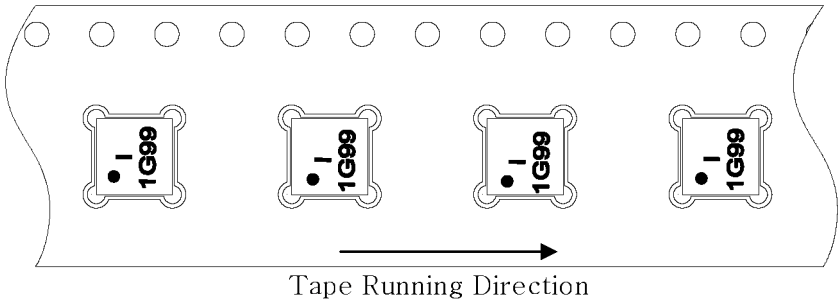


Carrier Tape Dimensions [unit : mm]



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]

