

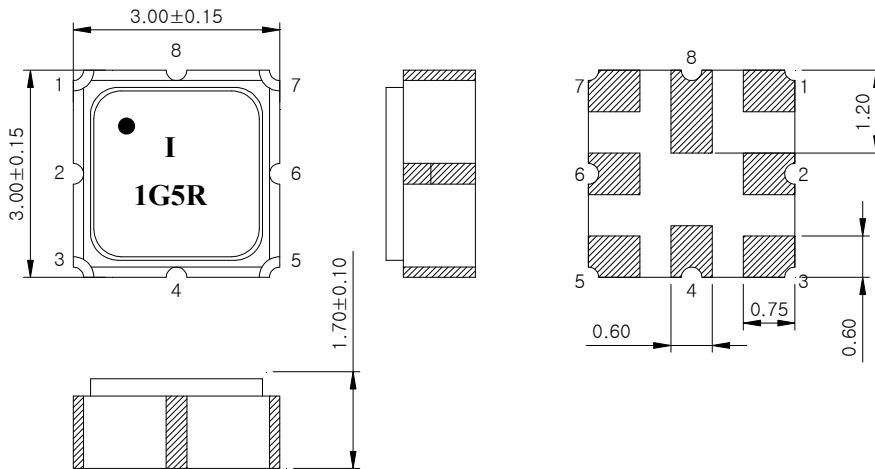
SAW Bandstop Filter F1G5R



Features

- RF bandstop filter for GPS / Glonass
- Input and Output 50 Ω Impedance matching device
- Ceramic Surface Mounted Device Package (3.0 mm × 3.0 mm)
- RoHS/RoHS2 (2015/863/EU) Compliant
- This part is 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	
7	Input
5	Output
1, 3	Coupling pin
2, 4, 6, 8	Case ground

Maximum Ratings

Parameter	Unit	Minimum	Typical	Maximum
Operating Temperature Range	℃	-40	25	110
Storage Temperature Range	℃	-40	25	125
Power Handling Capability	dBm	-	-	30

Electrostatics Sensitive Device (ESD)

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F1G5R	
		Rev. Date	2019-08-09	
		Rev.	AS 05	1/8

SAW Bandstop Filter F1G5R




Specifications

Fc = 1575.42 MHz

		Minimum	Typical	Maximum
Notch Frequency (Fc)	MHz		1575.42	
Insertion Loss (824 ~ 960MHz)	dB		0.7	1.2
Insertion Loss (1710 ~ 1990MHz)	dB	-	1.2	1.6
Insertion Loss (2110 ~ 2170MHz)	dB	-	1.3	1.8
Absolute Group Delay(824 ~ 960MHz)	nsec	-	5	10
Absolute Group Delay(1710 ~ 1990MHz)	nsec	-	5	10
Absolute Group Delay(2110 ~ 2170MHz)	nsec	-	5	10
Attenuation (1572.42 ~ 1578.42MHz)	dB	13	18	-
Temperature Coefficient of Frequency	ppm/°C	-	-40	-
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
- 3) All attenuation measurements are measured relative to insertion loss

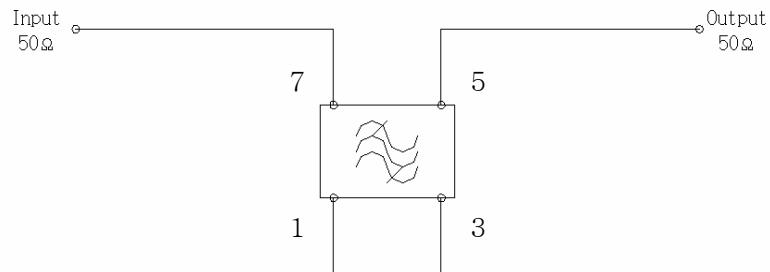
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		Rev. Date	2019-08-09	
		Rev.	AS 05	2/8

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Matching Schematic

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



Marking Configuration


- 1)
●
- 2)
I²
- 3)
1G5R³

1) Pad Number 1 Index

2) Manufacturer name

3) Part Number

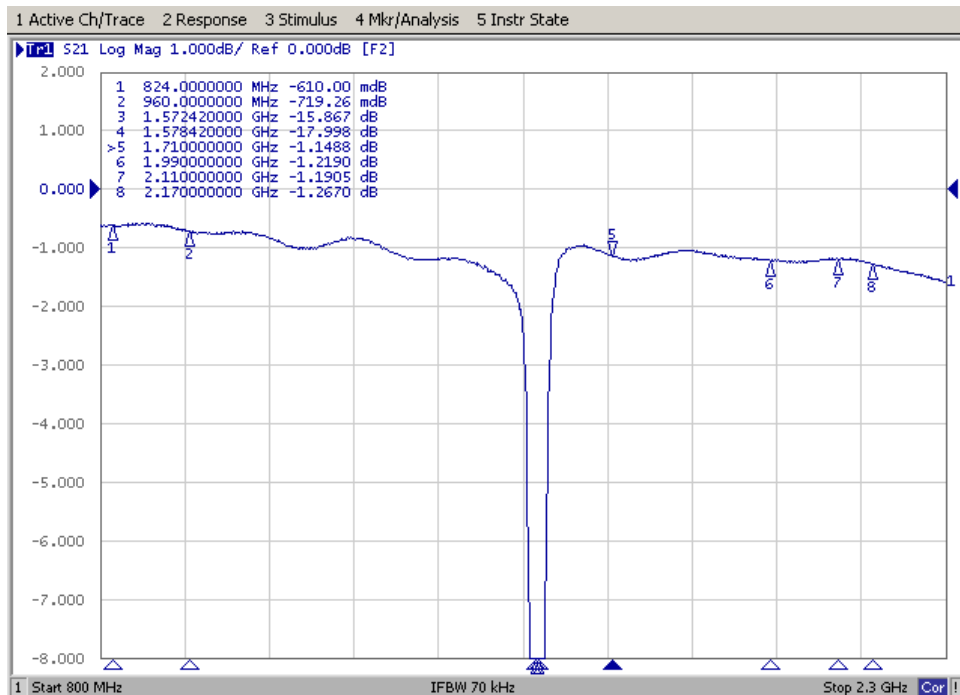
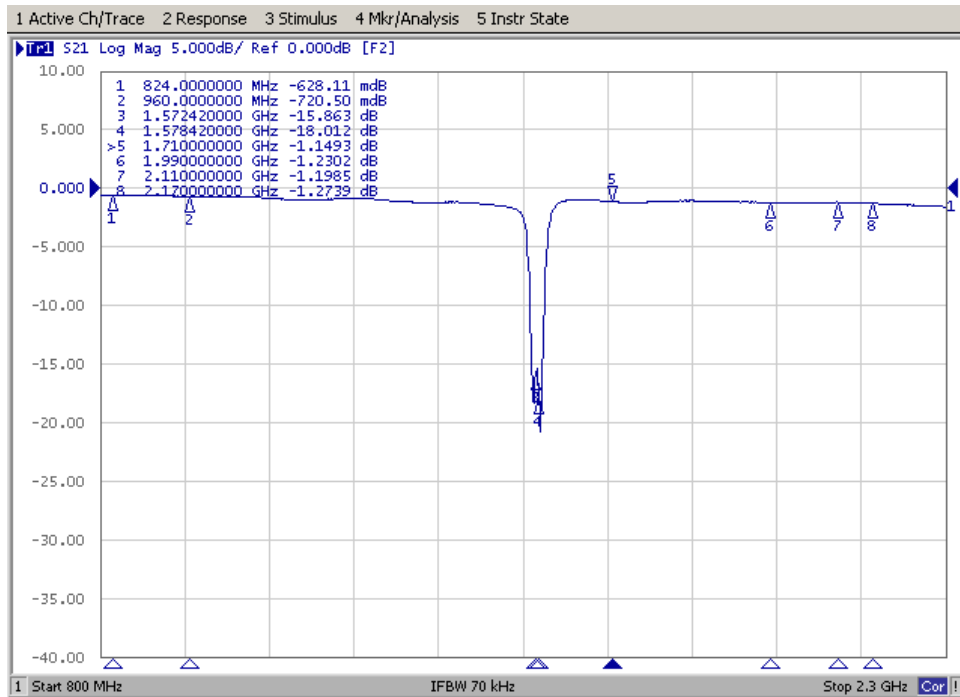
* Ink or Laser Marking available

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		Rev.	AS 05	3/8

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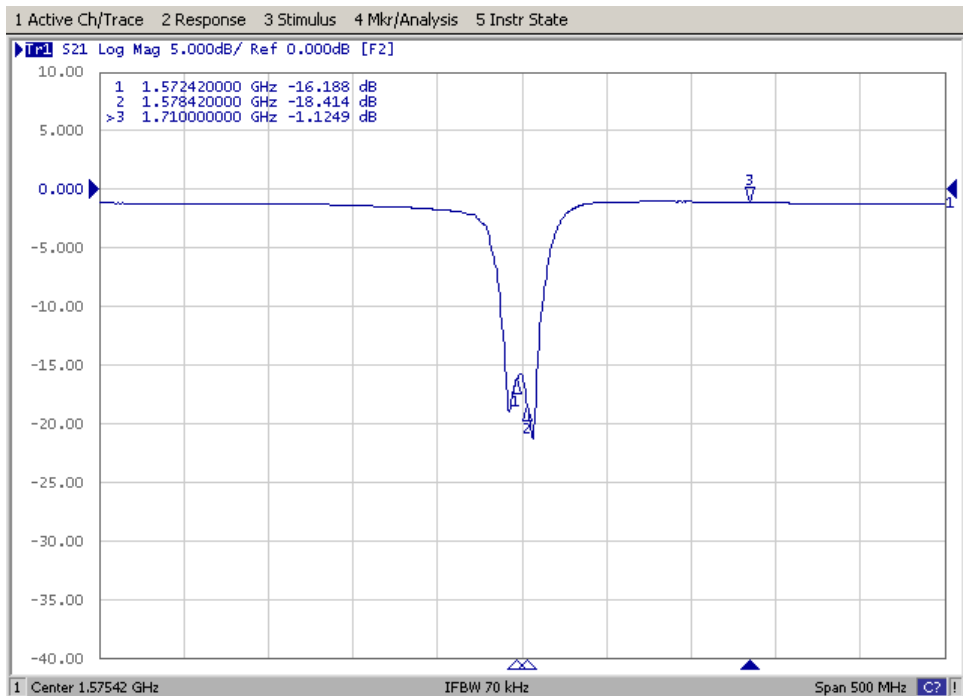
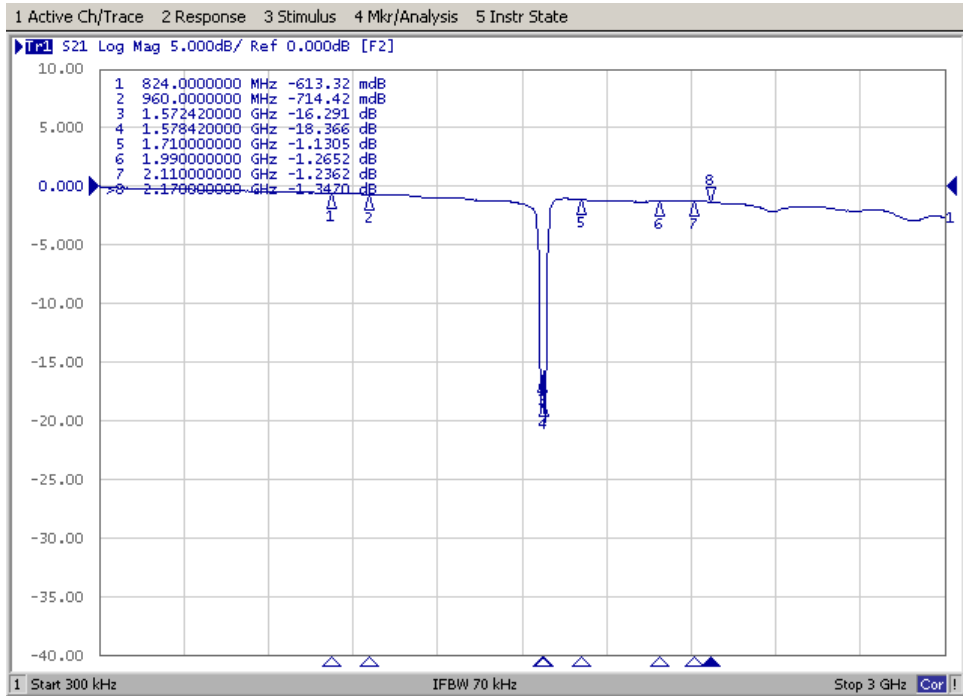
Typical Performance (at 25°C)



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Rev. Date	2019-08-09	
Rev.	AS 05	4/8

SAW Bandstop Filter F1G5R

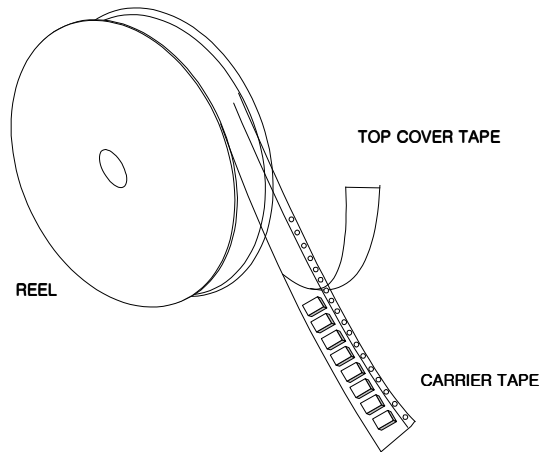


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Rev.	AS 05	5/8

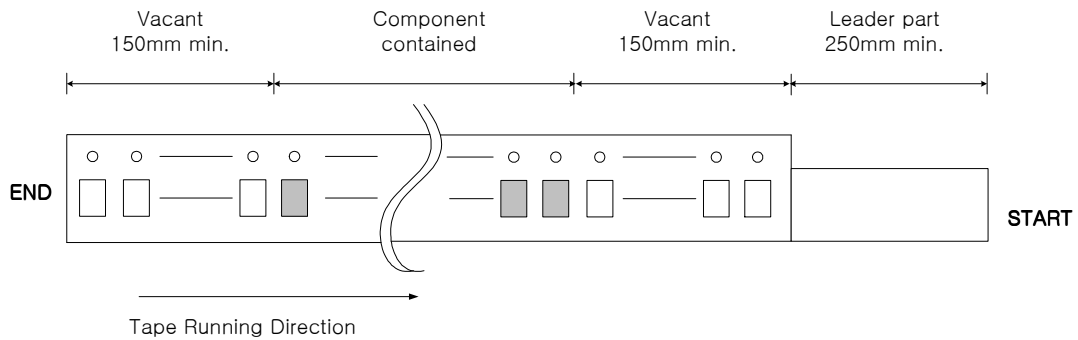
Packing Specification

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

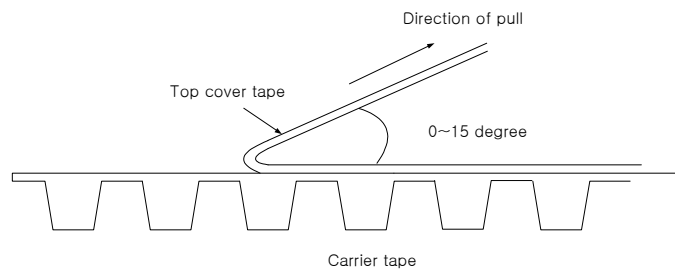


2. Tensile strength of carrier tape

4.4N/mm width

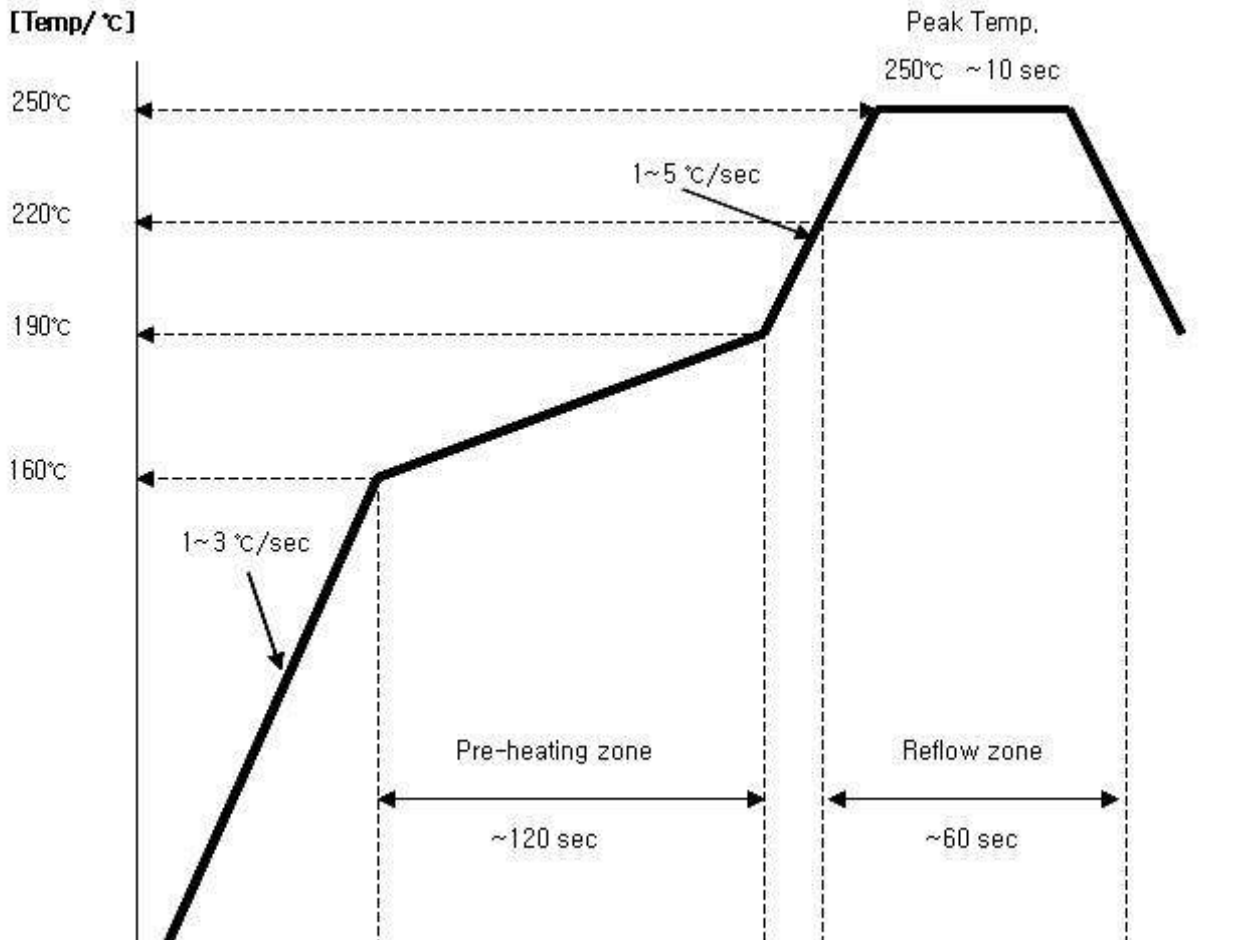
3. Top cover tape adhesion

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



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		Rev.	AS 05	6/8


Reflow Condition



Comment) The quality is guaranteed under this temperature conditions on 2 times solder reflows

Cautions

1. This is a hermetic device.
MSL (Moisture Sensitive Level) is the 1st level
2. This is an electrostatic sensitive device. Please avoid static voltage during operation and storage.
ESD (Electrostatic Discharge) Rating is class 0. (Test : HBM-Human Body Model)
3. Ultrasonic cleaning shall be avoided.
4. This device should not be used in any type of fluid such as water, oil , organic solvent ,etc.

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