

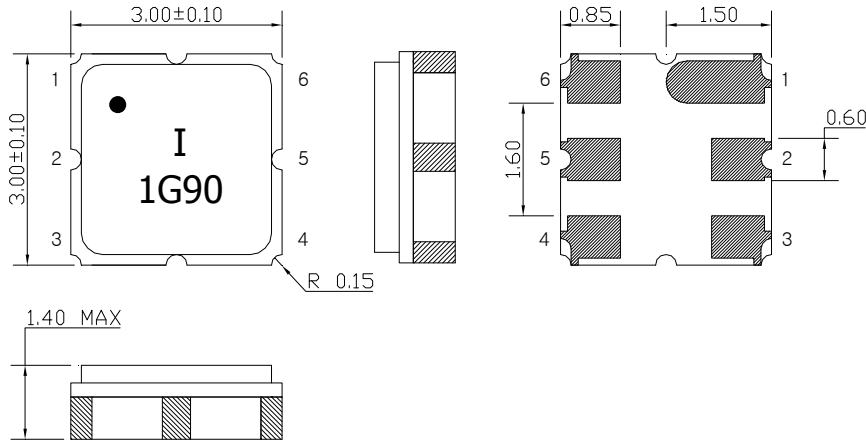
SAW Bandpass Filter F1G90



Features

- RF bandpass filter
- High attenuation
- No matching single-ended operation
- Ceramic Surface Mounted Device Package (3.0 mm × 3.0 mm)
- RoHS Compliant

Package Dimension



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

Maximum Ratings

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

Electrostatics Sensitive Device (ESD)

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		Rev. Date	2014-03-21	
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Specifications

Fo = 1900.0 MHz

	Minimum	Typical	Maximum	Unit
Center Frequency (Fc)	-	1900.0	-	MHz
Insertion Loss (In Fc ±20.0 MHz)	-	2.7	3.5	dB
Amplitude Ripple (In Fc ±20.0 MHz)	-	0.8	1.5	dB
VSWR (In Fc ±20.0 MHz)	-	1.5	2.0	
Relative Attenuation				
0.3 MHz ~ 1000.0 MHz	30	35	-	dB
1000.0 MHz ~ 1700.0 MHz	30	35	-	
1700.0 MHz ~ 1830.0 MHz	32	38	-	
1970.0 MHz ~ 2400.0 MHz	38	45	-	
2400.0 MHz ~ 3000.0 MHz	30	40	-	
Input/Output Impedance		50		Ohm

Notes :

- 1) All specifications are based on the matching schematic shown below
- 2) All specifications are measured by Agilent Network analyzer and full 2 port calibration at room temperature
- 3) All attenuation measurements are measured relative to insertion loss

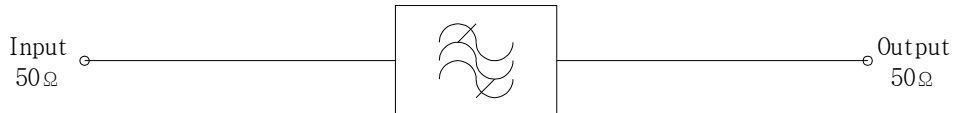
 2010 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	FIG90	
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Matching Schematic

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



Marking Configuration

●¹⁾
I²⁾
1G90³⁾

1) Pad Number 1 Index

2) Manufacturer name

3) Marking Number

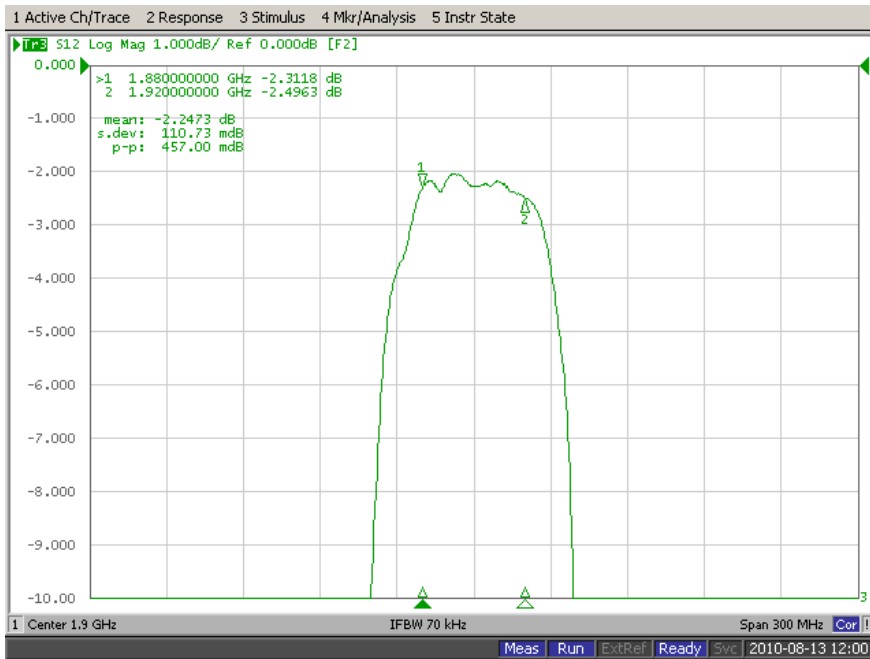
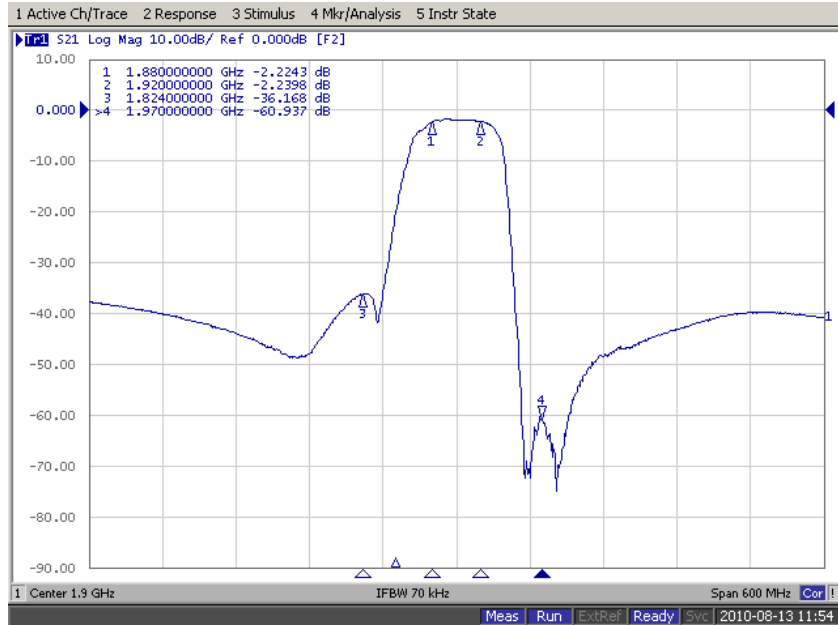
* Ink or Laser Marking available

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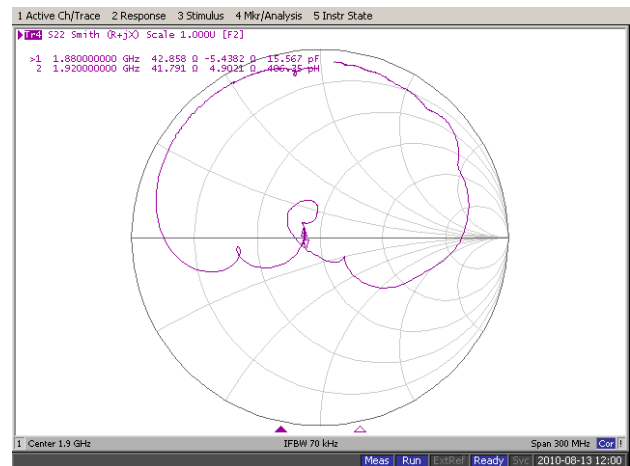
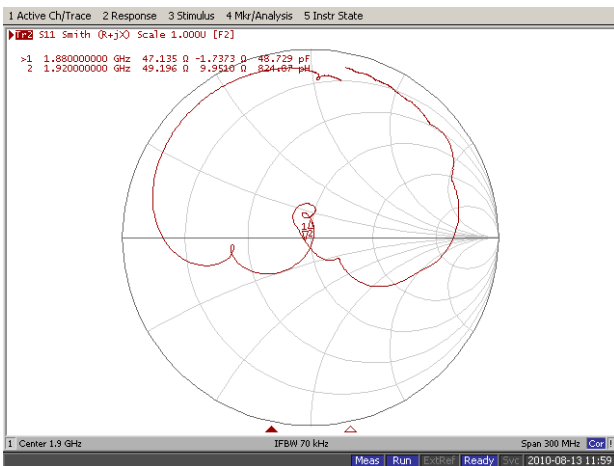
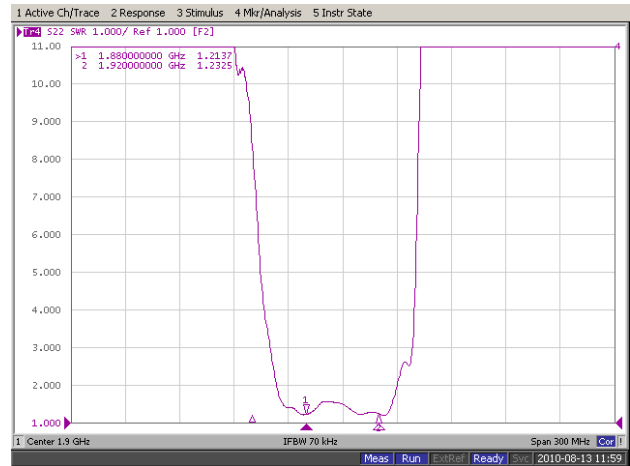
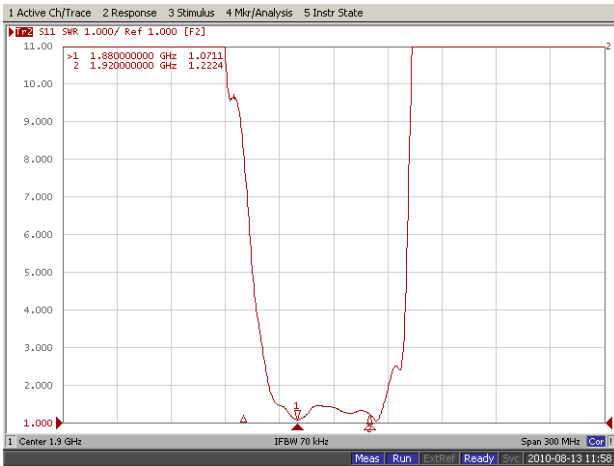
Typical Performance (at +25°C)



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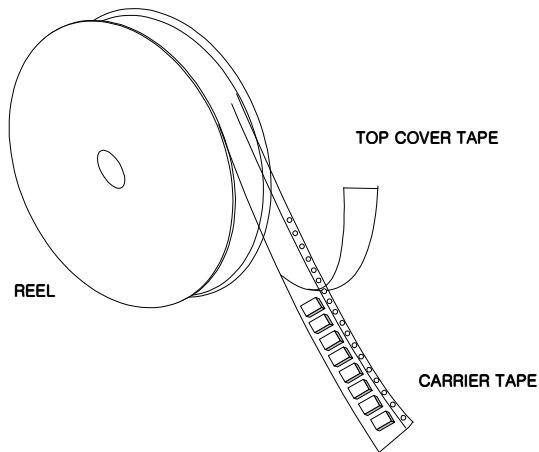
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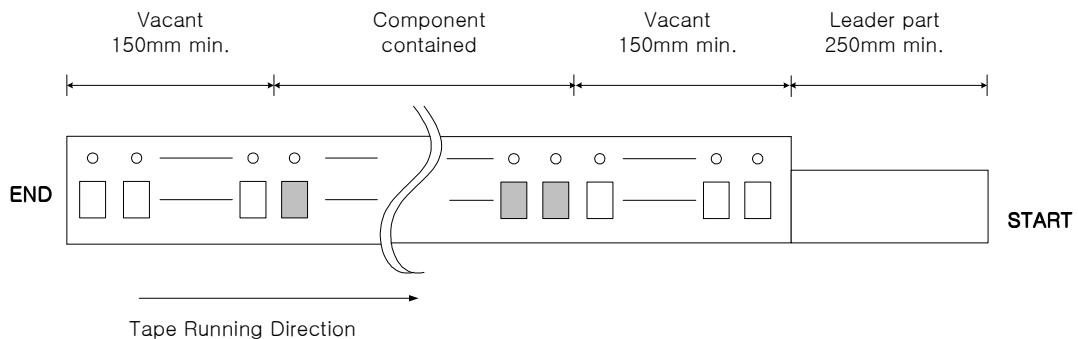
Packing Specification

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

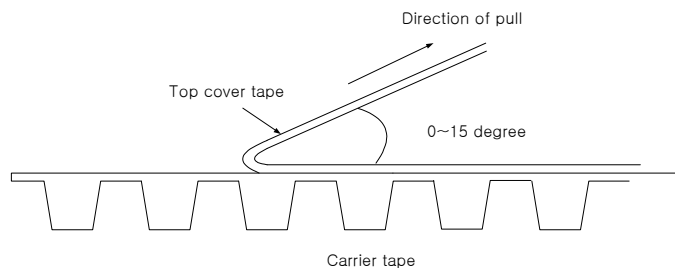


2. Tensile strength of carrier tape

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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