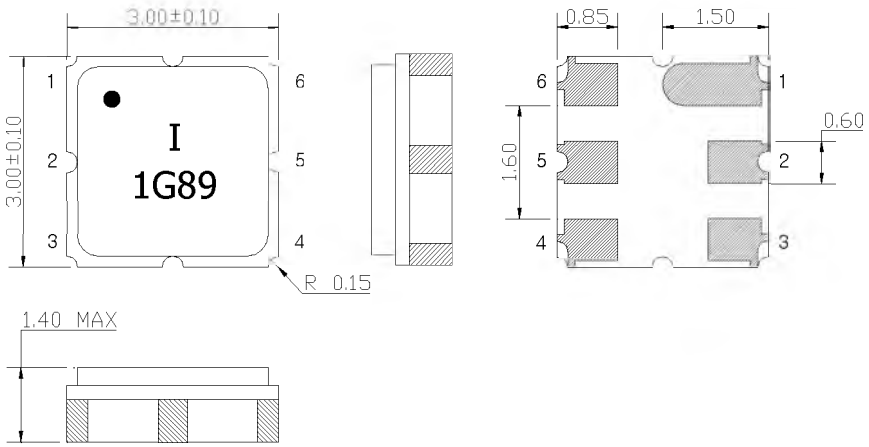
SAW Bandpass Filter F1G89

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 : Al_2O_3 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	℃	-25	25	85
Storage Temperature Range	℃	-40	-	85
Power Handling Capability	dBm	-	-	12

Electrostatics Sensitive Device (**ESD**)

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Specifications

Fc = 1882.5 MHz

	Minimum	Typical	Maximum	Unit
Center Frequency (Fc)	-	1882.5	-	MHz
Insertion Loss (In Fc +/- 32.5 MHz)	-	2.6	3.8	dB
Amplitude Ripple (In Fc +/- 32.5 MHz)	-	1.5	2.3	dB
VSWR (In Fc +/- 32.5 MHz)	-	2.0	2.5	
Attenuation (Reference level from 0dB)				
800.0 MHz ~ 1300.0 MHz	24	30	-	dB
1400.0 MHz ~ 1475.0 MHz	25	31	-	
1930.0 MHz ~ 1940.0 MHz	4	8	-	
1950.0 MHz ~ 3000.0 MHz	20	35	-	
Temperature Range (Operational)	-25	25	85	℃
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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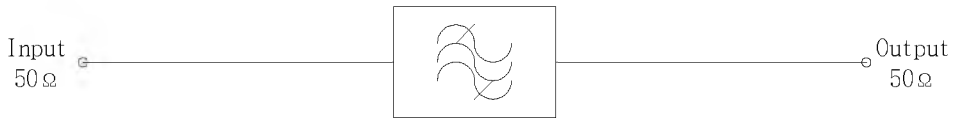
Matching Schematic

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



Marking Configuration

1)

I 2)

1G89 3)

1) Pad Number 1 Index

2) Manufacturer name

3) Marking Number

* Ink or Laser Marking available

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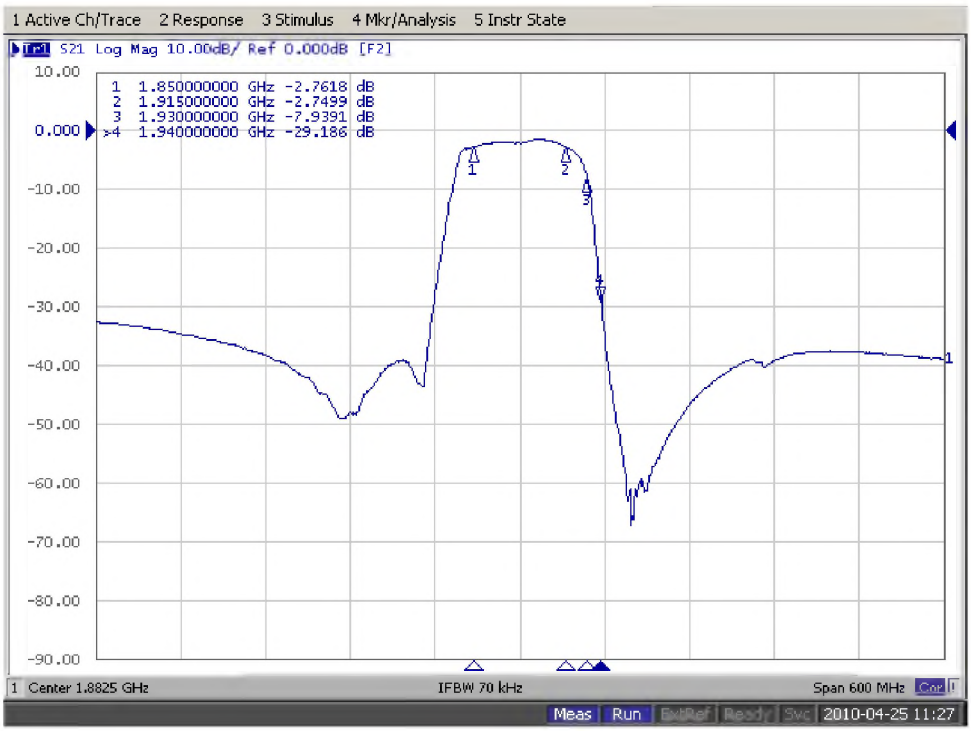
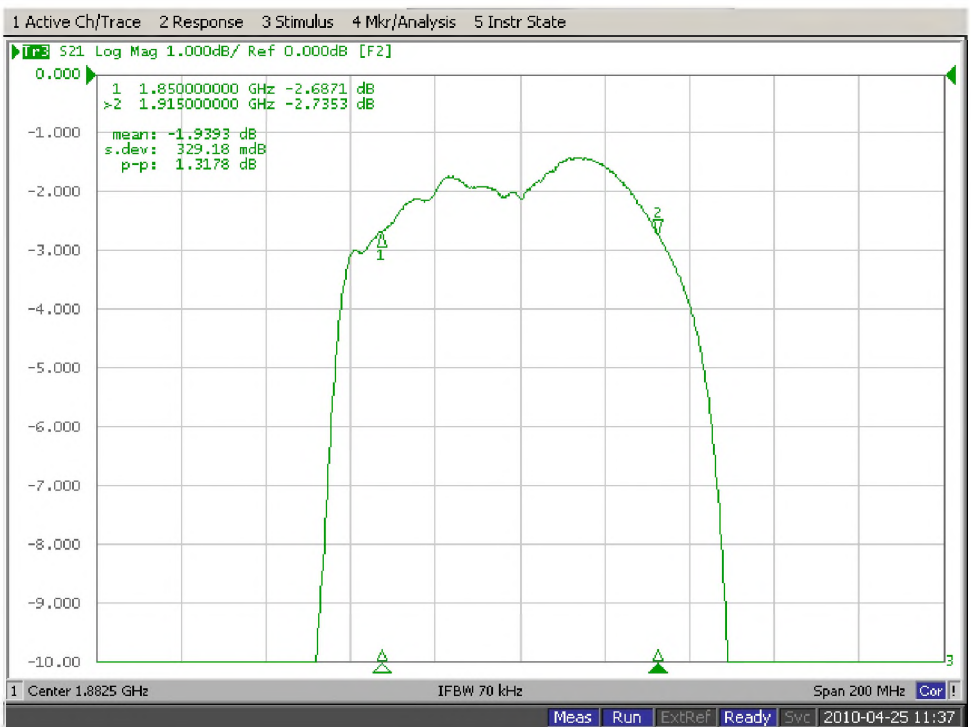
Typical Performance (at 25℃)





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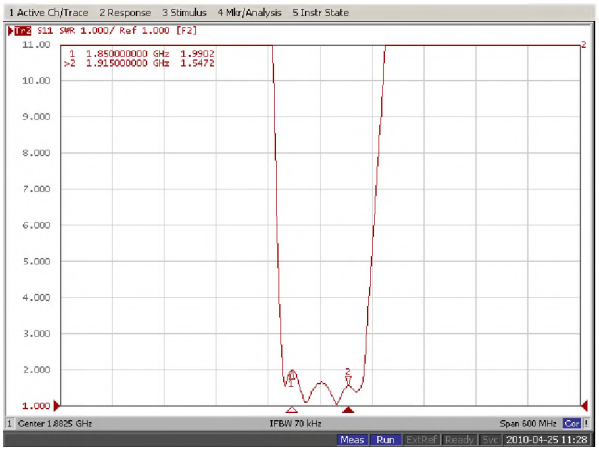
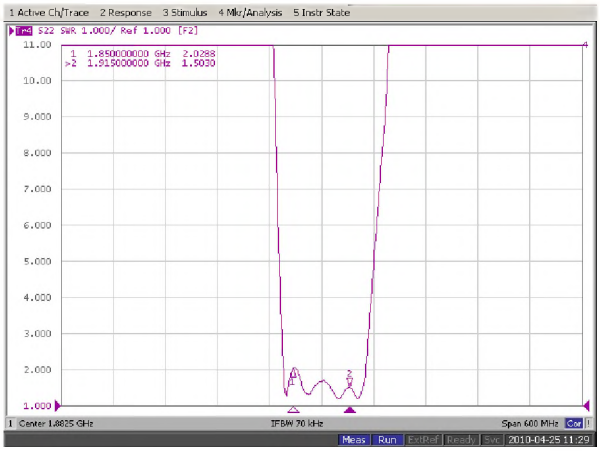
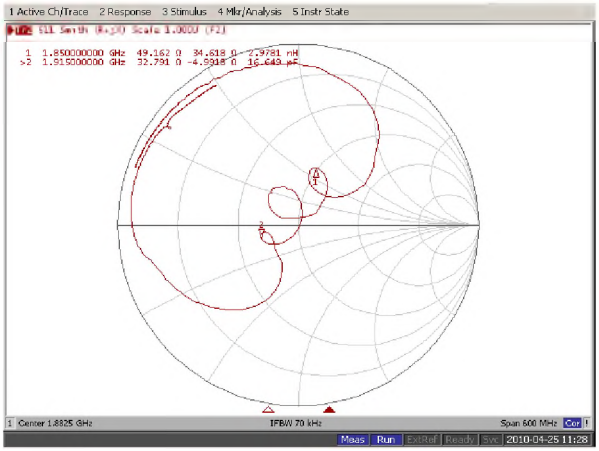
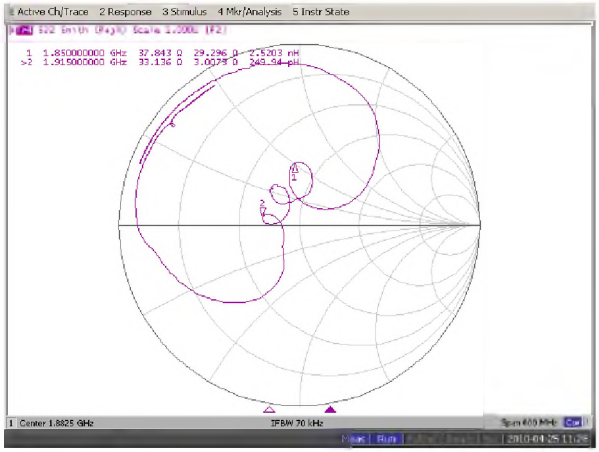
Input / Output VSWR Charts





Input / Output Smith Charts





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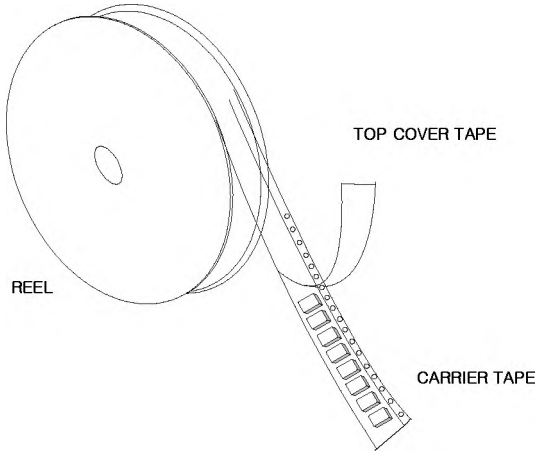
Packing Specification

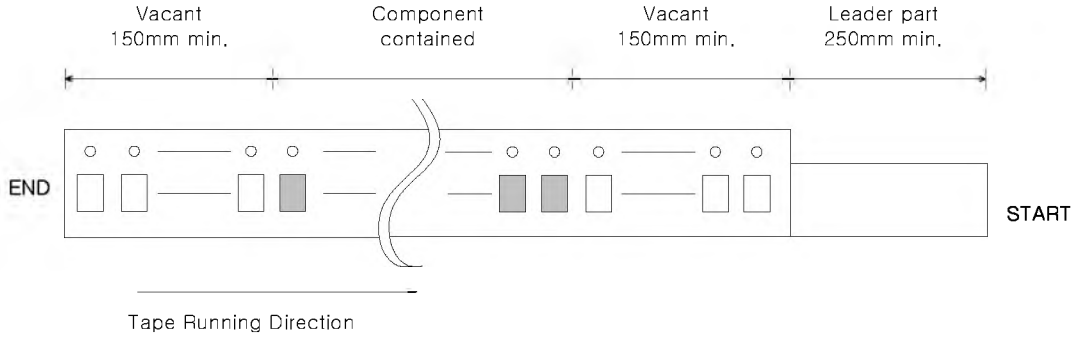
1. Reeling Quantity : 3000 pcs / 13" reel (or 1000 pcs / 7" reel)

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

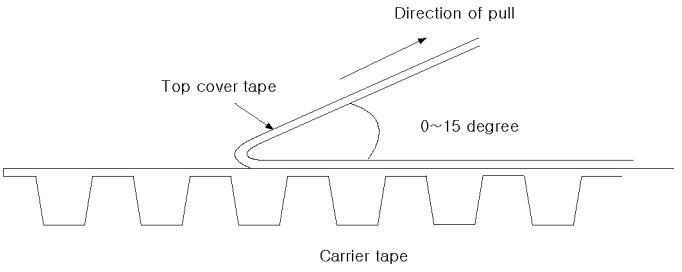
4.4N/mm width

3. Top cover tape adhesion

1) pull off angle : 0~15°

2) speed : 300mm/min

3) force : 20~70g



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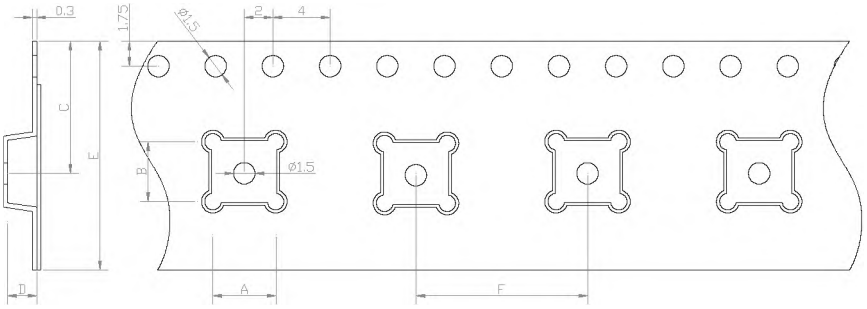
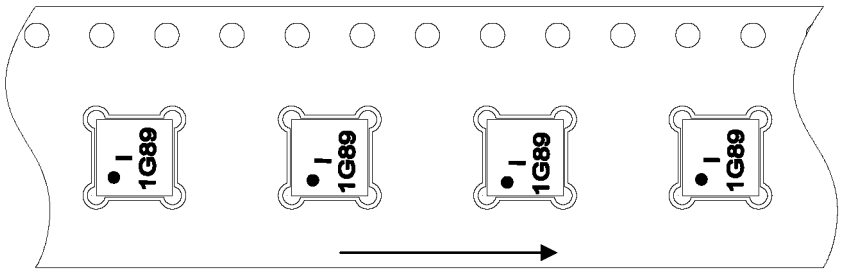
Carrier Tape Dimensions [unit : mm]



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]