

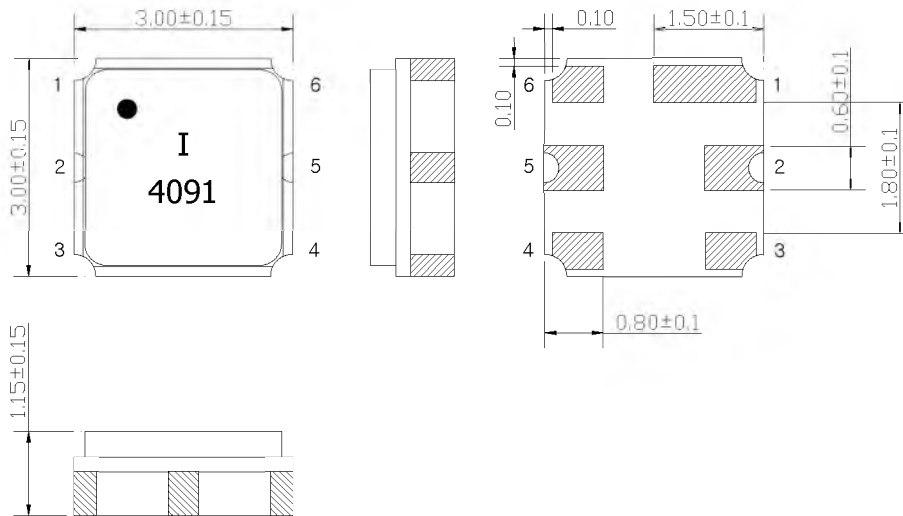
SAW Bandpass Filter F4091



Features

- RF bandpass filter
- Usable bandwidth 1 MHz
- Ceramic Surface Mounted Device (SMD) Package (3.0mm × 3.0mm)
- RoHS Compliant

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	-30	25	85
Storage Temperature Range	°C	-30	25	85
Power Handling Capability	dBm	-	-	15

Electrostatics Sensitive Device (ESD)

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Specifications

$F_c = 409 \text{ MHz}$

		Minimum	Typical	Maximum
Center Frequency (F_c)	MHz	-	409	-
Insertion Loss ($F_c \pm 0.5 \text{ MHz}$)	dB	-	2.0	3.0
Amplitude Ripple ($F_c \pm 0.5 \text{ MHz}$)	dB	-	0.2	1.0
Absolute attenuation				
D.C. ~ 391.0 MHz	dB	45	50	-
425.0 ~ 435.0 MHz		30	35	-
435.0 ~ 509.0 MHz		45	60	-
Input/Output impedance	Ohm	-	50	-

Notes :

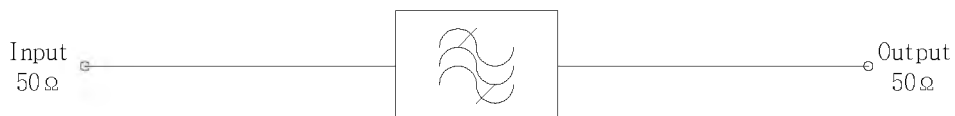
- 1) All specifications are based on the matching schematic shown below, measured by Agilent Network analyzer and full 2 port calibration.
- 2) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances

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Matching Schematic

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



Marking Configuration

1)
I 2)
4091 3)

1) Pad Number 1 Index

2) Manufacturer name

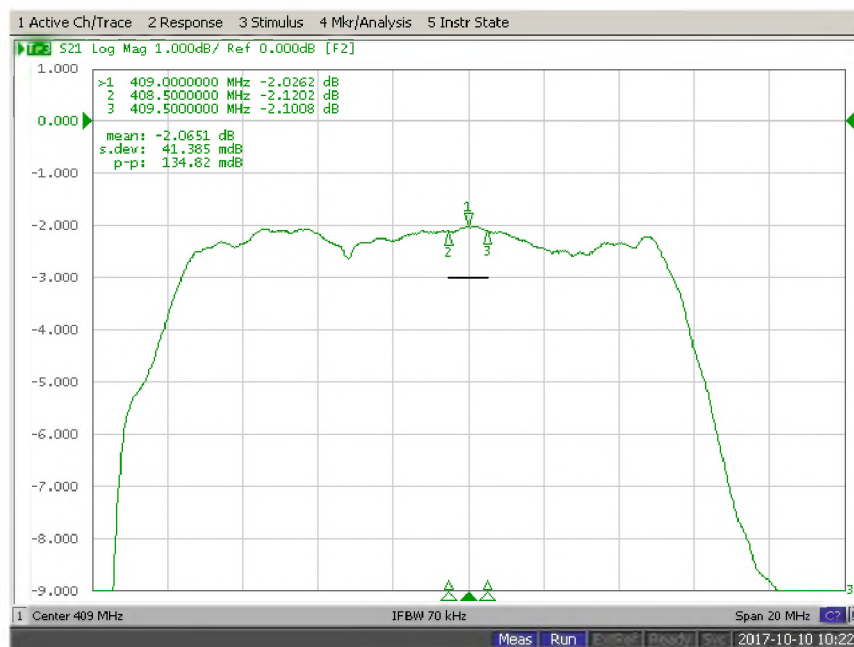
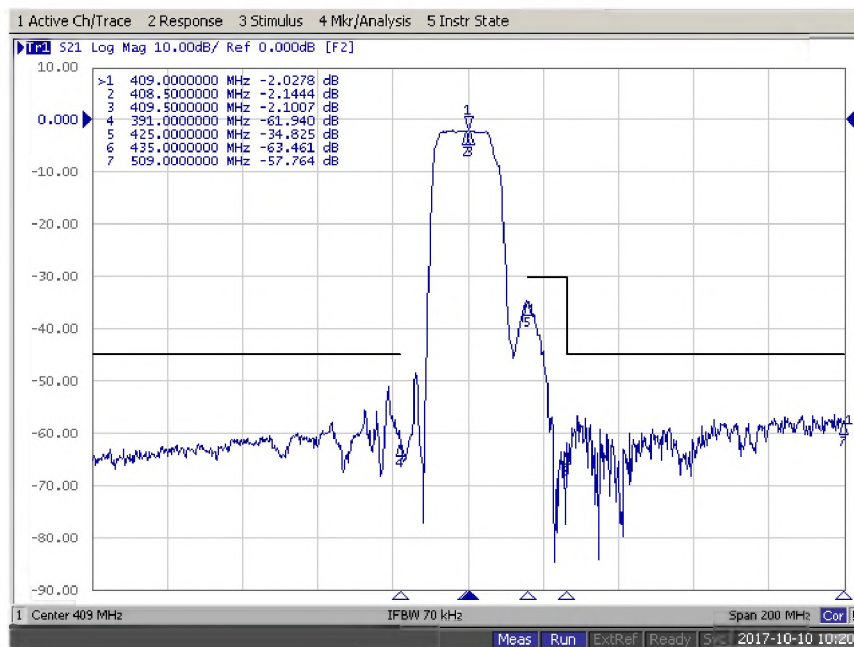
3) Marking Number

* Ink or Laser Marking available

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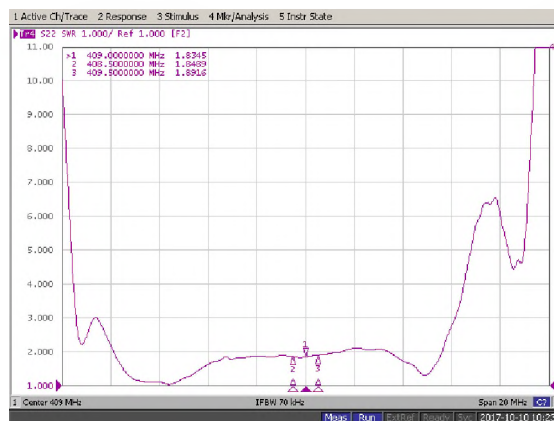
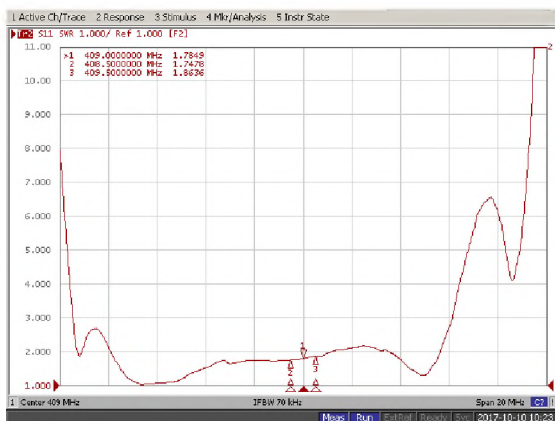
Typical Performance (at 25°C)



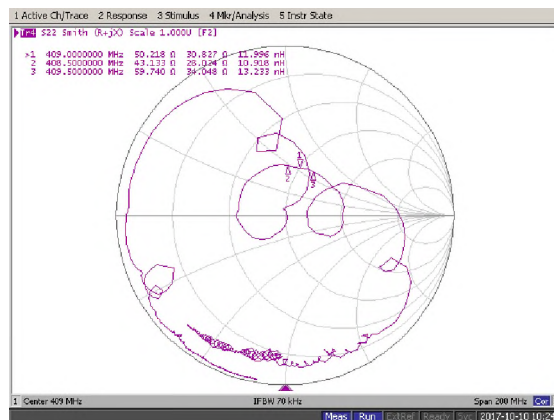
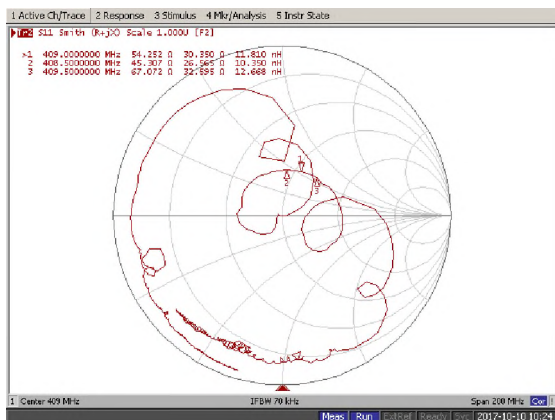
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Input / Output VSWR Charts



Input / Output Smith Charts

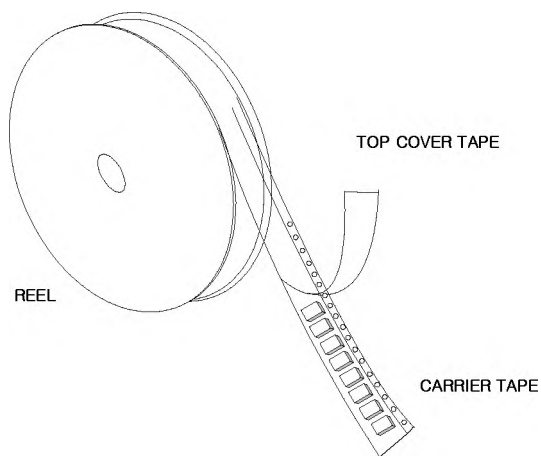


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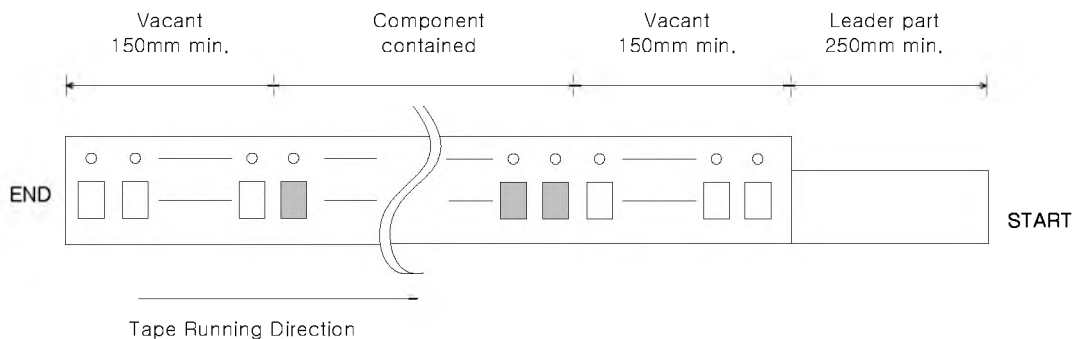
Packing Specification

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

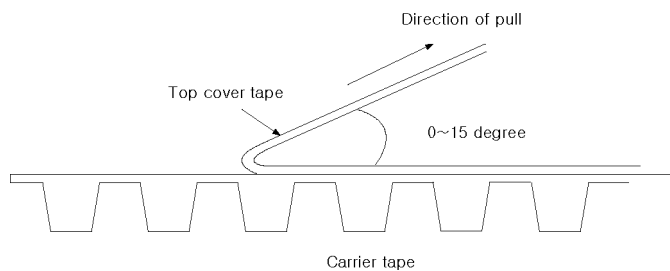
4.4N/mm width

3. Top cover tape adhesion

1) pull off angle : 0~15°

2) speed : 300mm/min

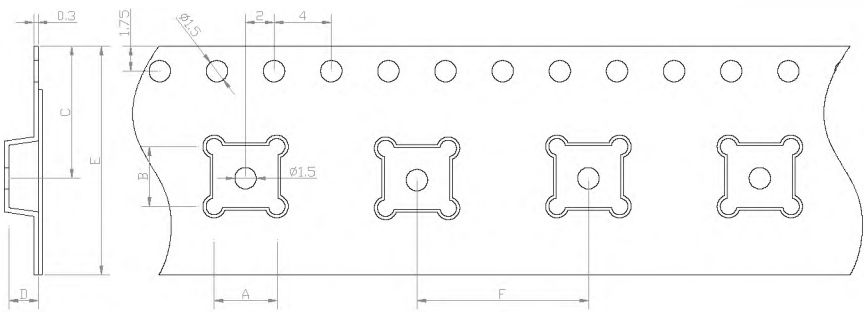
3) force : 20~70g



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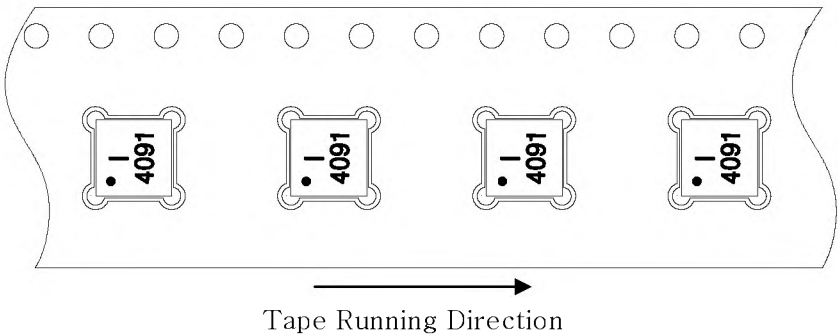


Carrier Tape Dimensions [unit : mm]



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]

