

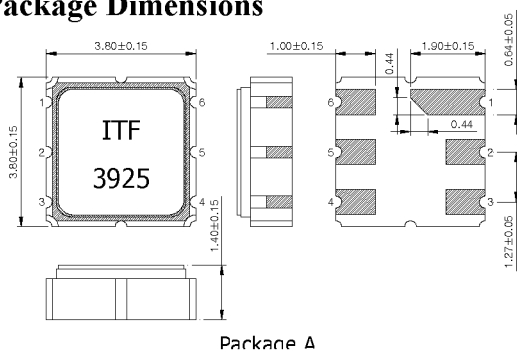
# SAW Bandpass Filter F3925



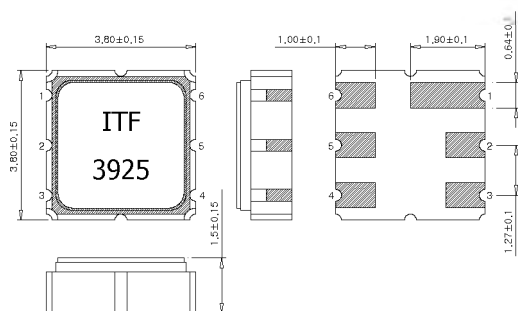
## Features

- RF bandpass filter
- Usable bandwidth 5MHz (390 MHz ~ 395 MHz)
- High attenuation
- No matching 50Ω single-ended operation
- Ceramic Surface Mounted Device Package ( 3.8 mm × 3.8 mm )
- RoHS compliant

## Package Dimensions



Package A



Package B

Dimensions shown are nominal in millimeters

Body : Al<sub>2</sub>O<sub>3</sub> Ceramic

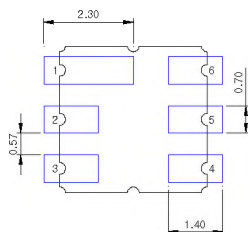
Lid : Kovar, Ni Plated

Terminations : Au plating 0.3 ~ 1.0 μm, Over a 1.27 ~ 8.89 μm  
Ni Plating

### Pin Configuration

|            |        |
|------------|--------|
| 2          | Input  |
| 5          | Output |
| 1, 3, 4, 6 | Ground |

## Recommended footprint



## Maximum Ratings

| Parameter                   | Unit | Minimum | Typical | Maximum |
|-----------------------------|------|---------|---------|---------|
| Operating Temperature Range | °C   | -30     | 25      | 85      |
| Storage Temperature Range   | °C   | -40     | -       | 85      |
| Power Handling Capability   | dBm  | -       | -       | 30      |

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## Specifications

$F_c = 392.5 \text{ MHz}$

|                                                |     | Minimum | Typical | Maximum |
|------------------------------------------------|-----|---------|---------|---------|
| Center frequency ( $F_c$ )                     | MHz | -       | 392.5   | -       |
| Insertion Loss ( $F_c \pm 2.5 \text{ MHz}$ )   | dB  | -       | 2.8     | 4.0     |
| Amplitude Ripple ( $F_c \pm 2.5 \text{ MHz}$ ) | dB  | -       | 0.8     | 1.8     |
| VSWR ( $F_c \pm 2.5 \text{ MHz}$ )             |     | -       | 1.5     | 2.0     |
| Absolute Attenuation                           |     |         |         |         |
| D.C. ~ 380.0 MHz                               | dB  | 42      | 47      | -       |
| 380.0 ~ 385.0 MHz                              |     | 38      | 45      | -       |
| 412.5 ~ 1200.0 MHz                             |     | 28      | 33      | -       |
| 1200.0 ~ 2000.0 MHz                            |     | 20      | 25      | -       |
| 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

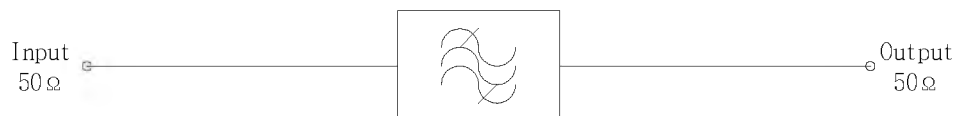
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## Matching Schematic

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



## Marking Configuration

ITF <sup>1)</sup>

3925 <sup>2)</sup>

1) Manufacturer name

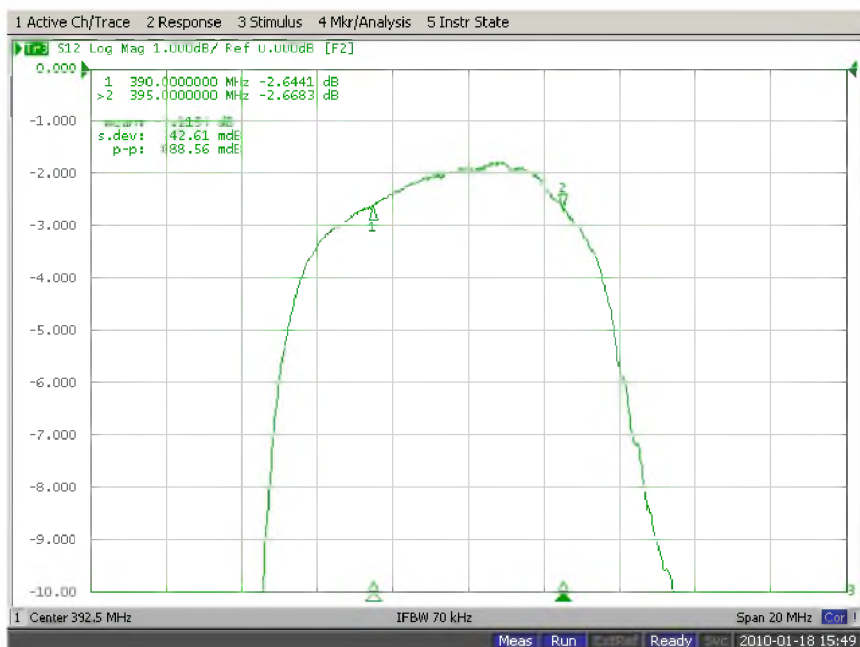
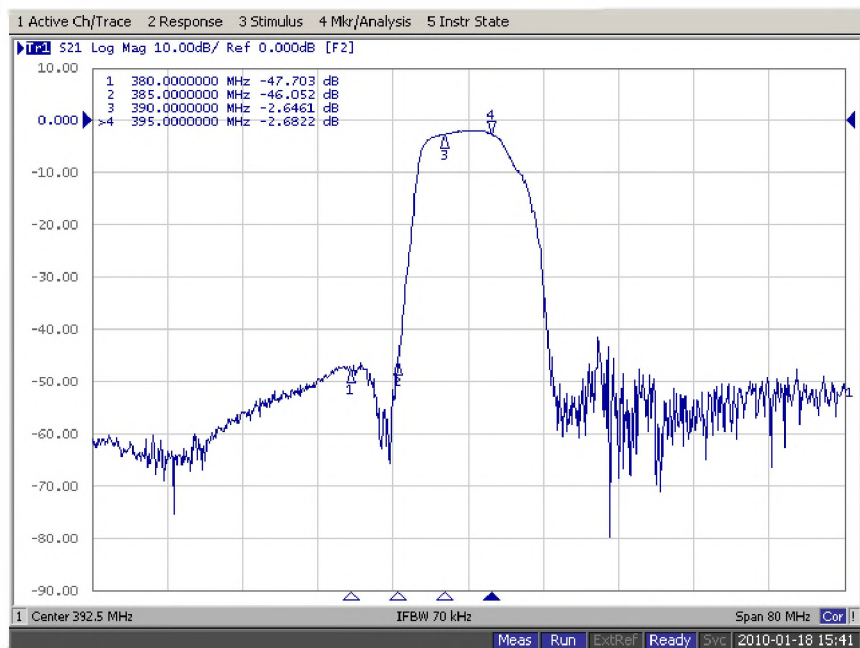
2) Marking Number

\* Ink or Laser Marking available

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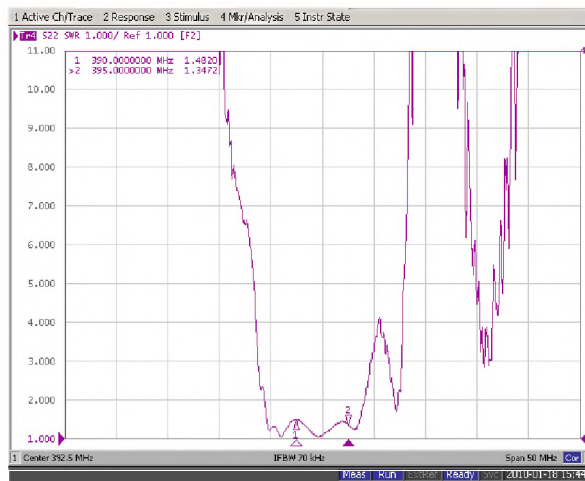
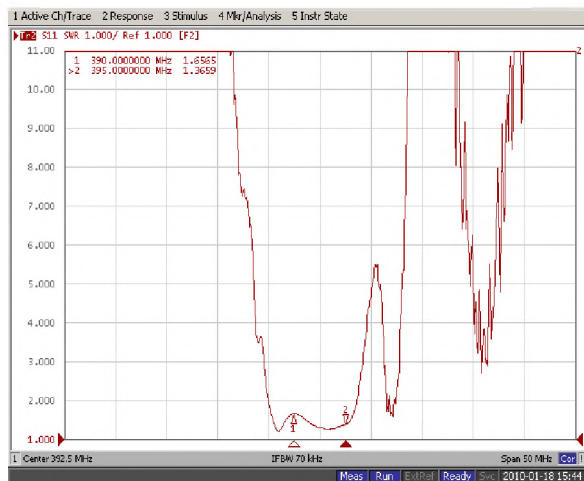
## Typical Performance ( at 25°C )



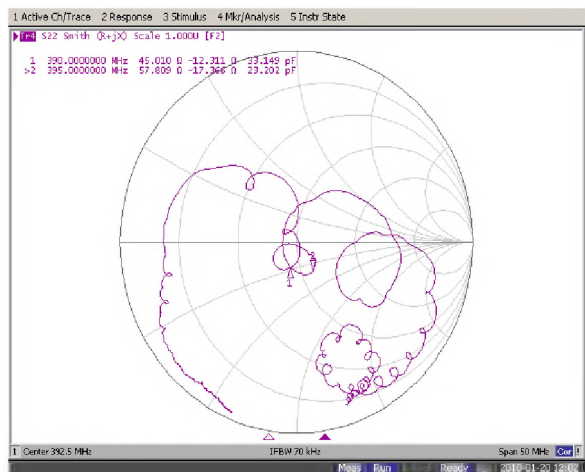
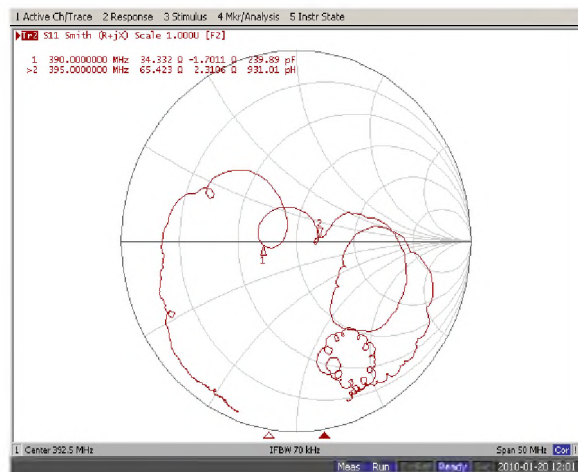
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## Input / Output VSWR Charts



## Input / Output Smith Charts

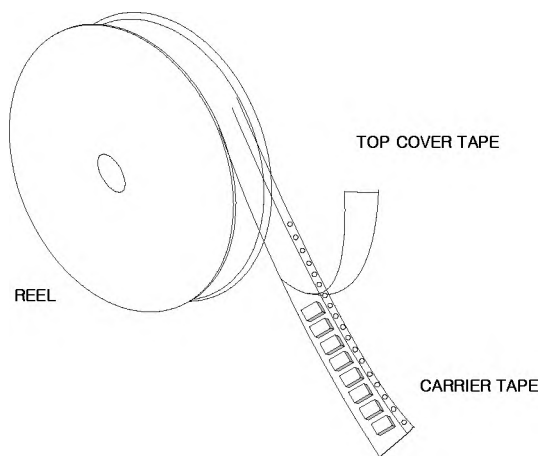


# SAW Bandpass Filter F3925



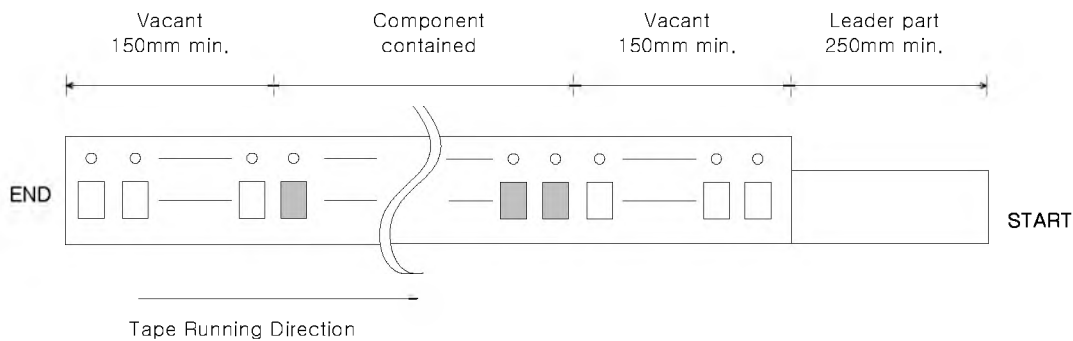
## Packing Specification

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

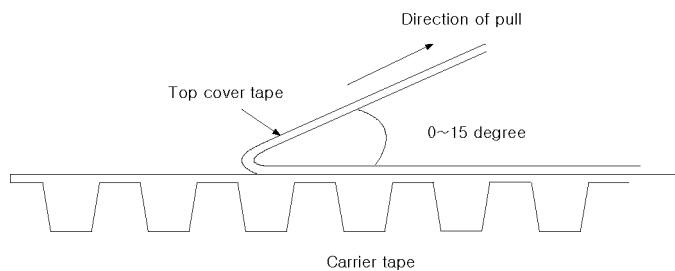
4.4N/mm width

3. Top cover tape adhesion

1) pull off angle : 0~15°

2) speed : 300mm/min

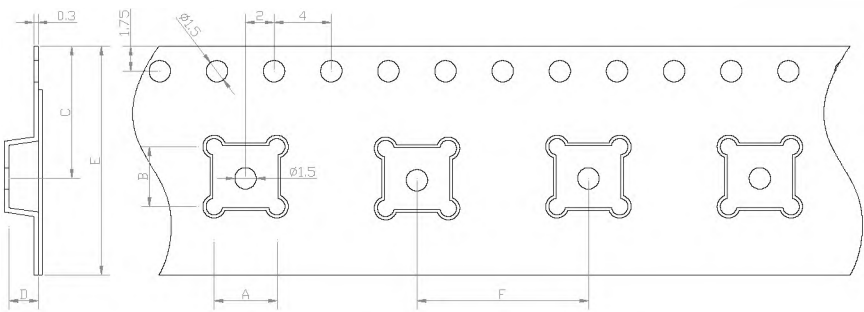
3) force : 20~70g



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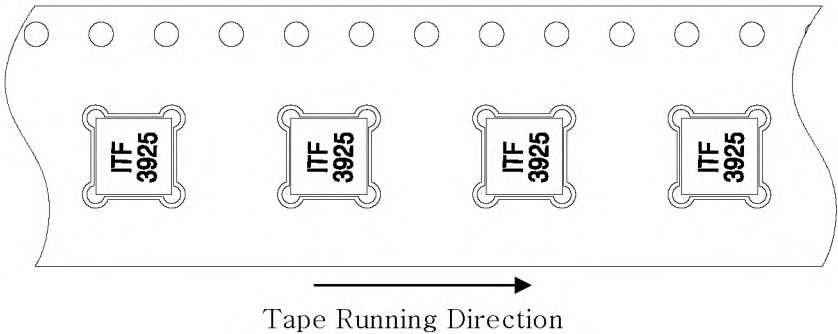


## Carrier Tape Dimensions [unit : mm]



|   |             |
|---|-------------|
| A | 4.30 ± 0.1  |
| B | 4.30 ± 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]

