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| Document   | Document Number | Revision | Date        |
| Spec Sheet | FDNC091A2       | A        | 14-Apr-2018 |

## **Notch Filter**

**P/N : FDNC091A2**

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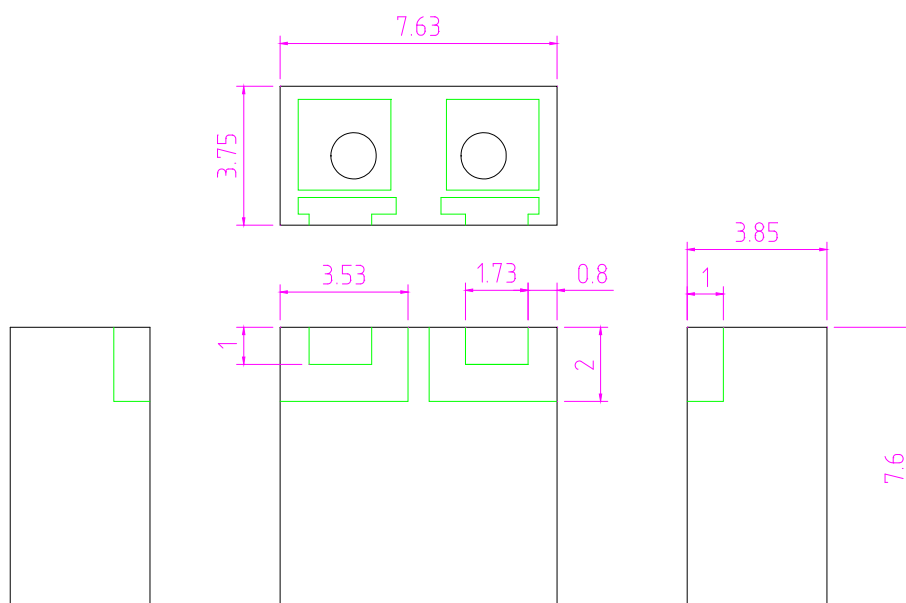
| Revision    | Description          | Date        |
|-------------|----------------------|-------------|
| Preliminary | Preliminary Proposal | 21-Feb-2018 |
| A           | Spec Update          | 14-Apr-2018 |
|             |                      |             |
|             |                      |             |

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## 1. Electrical Specifications

| Parameter             |           | Unit               | Min. | Typ.  | Max. | Condition               |
|-----------------------|-----------|--------------------|------|-------|------|-------------------------|
| Rejection Frequency   |           | MHz                |      | 916.5 |      | BW : 100KHz             |
| Pass Band             |           | MHz                | 859  |       | 894  |                         |
| Impedance             |           | $\Omega$           |      | 50    |      |                         |
| Rejection             |           | dB                 | 30   |       |      | @ 916.5MHz              |
| Insertion Loss        | Pass band | dB                 |      |       | 3.0  |                         |
|                       | High Band | dB                 |      |       | 3.0  | @ 1.4GHz                |
| Power Handling        | Avg.      | W                  |      |       | 2.0  |                         |
|                       | Peak      | W                  |      |       | 10   |                         |
| Operating Temperature |           | $^{\circ}\text{C}$ | -40  |       | 85   |                         |
| Inductor              |           | nH                 |      | 4.7nH |      | 1608 size (in mm scale) |

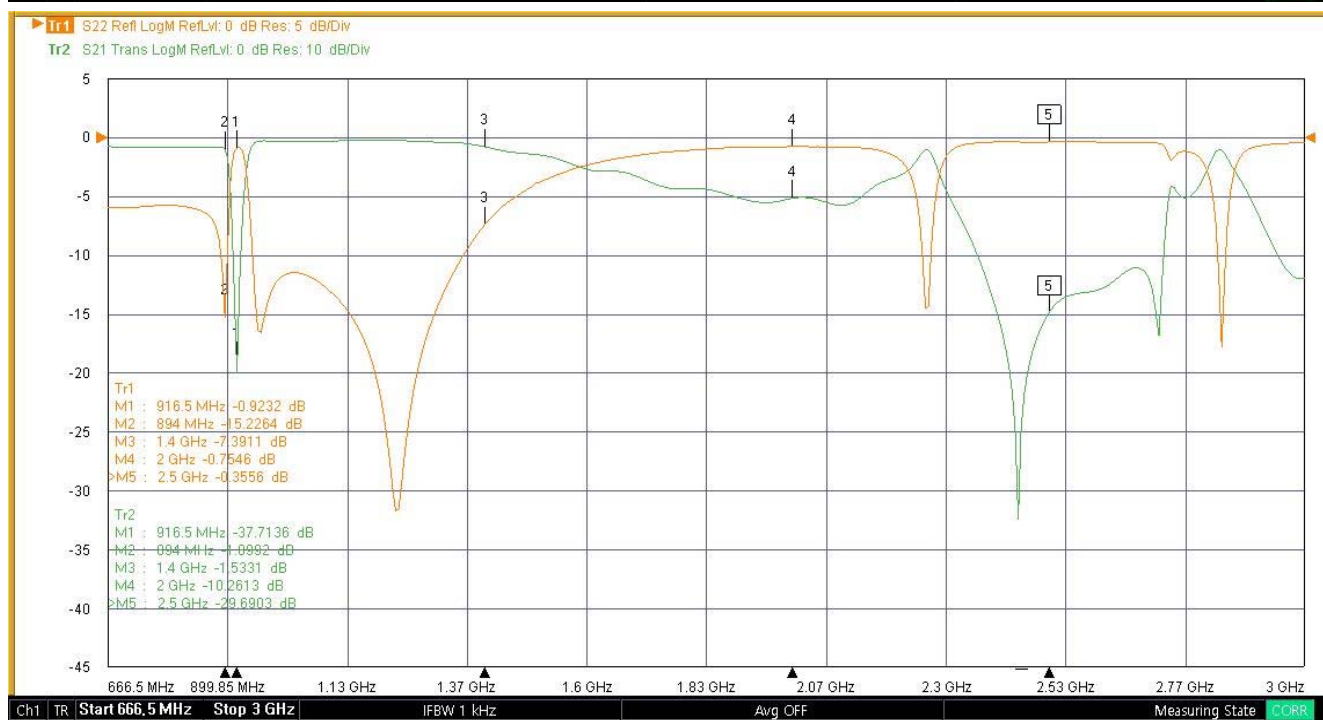
## 2. Mechanical Specifications

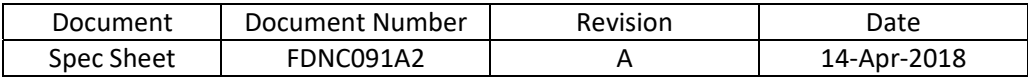


- I/O Pad Size to be confirmed
- Inductance of Inductor to be confirmed

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### 3. Measurement Plots





Technical drawing of a floor plan showing a rectangular layout with dimensions and hatched areas. The drawing includes the following elements:

- Dimensions:**
  - A horizontal dimension of  $2.6$  is indicated at the top.
  - A vertical dimension of  $0.8$  is indicated on the left side.
  - A horizontal dimension of  $2$  is indicated at the bottom left.
- Hatched Areas:**
  - There are 12 rectangular areas filled with a blue cross-hatch pattern.
  - These areas are arranged in a grid: 3 in the top row, 3 in the middle row, and 3 in the bottom row.
  - Each hatched area is outlined with a green border.
- Structural Lines:**
  - Black lines define the overall rectangular boundary and internal divisions.
  - Green lines highlight specific paths or boundaries within the layout.