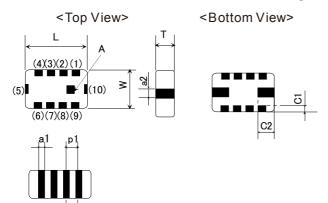


# **DUAL MATCHING FILTER (Preliminary)**

## 1. Characteristics (at -40~+85°C)

| Tentative Part Number              | LFD21891MMF3D931TEMP                    |  |  |
|------------------------------------|---|--|--|
| Frequency Range (BW)               | 869.50 ± 6.50 MHz                       |  |  |
| ANT Port Impedance (Nominal)       | 50 Ω                                    |  |  |
| Tx/Rx/TRx Port Impedance (Nominal) | Conjugate match with Si-Lab 446x series |  |  |
| Inportion Logo in DW               | Тх                                      | 1.7 dB Max at +25°C.<br>1.95 dB Max at -40~+85°C |  |
| Insertion Loss in BW               | Rx                                      | 3.3 dB Max at +25°C.<br>3.6 dB Max at -40~+85°C  |  |
| Attenuation (Absolute value)       | Tx                                      | 34.0 dB Min. at 2f0<br>34.0 dB Min. at 3f0       |  |
| ANT Port V.S.W.R. in Tx BW         | 1.54 Max.                               |  |  |
| ANT Port V.S.W.R. in Rx BW         | 2.60 Max.                               |  |  |
| Power Capacity                     | 500 mW max.                             |  |  |

## 2. Construction, Dimensions & Marking



| Mark | Meaning                |  |
|------|------------------------|--|
| A    | Directional Input Mark |  |

(in mm)

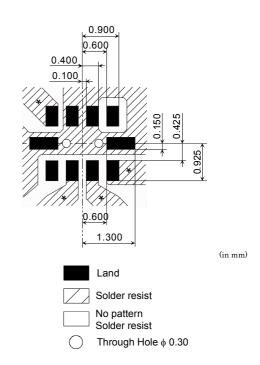
| Mark | Dimension | Mark | Dimension |
|------|-----------|------|-----------|
| L    | 2.00±0.15 | a2   | 0.30±0.15 |
| W    | 1.25±0.15 | c1   | 0.20±0.15 |
| Т    | 0.7max    | c2   | 0.40±0.15 |
| a1   | 0.25±0.15 | p1   | 0.50±0.15 |

#### TERMINAL CONFIGURATION

| Terminal No. | Terminal Name | Terminal No. | Terminal Name |
|--------------|---------------|--------------|---------------|
| (1)          | NC            | (6)          | NC            |
| (2)          | GND           | (7)          | TX            |
| (3)          | GND           | (8)          | RX_N          |
| (4)          | ANT           | (9)          | RX_P          |
| (5)          | GND           | (10)         | GND           |

Terminal of "NC" should be fixed to the no connected pattern.

### 3. Land Pattern



\*Line width to be designed to match  $50\Omega$  characteristic impedance, depending on PCB material and thickness.

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All the items and parameters in this product specification/datasheet/catalog have been prescribed on the premise that our product is used for the purpose, under the condition and in the environment specified in this specification. You are requested not to use our product deviating from the condition and the environment specified in this specification.

Please note that the only warranty that we provide regarding the products is its conformance to the specifications provided herein. Accordingly, we shall not be responsible for any defects in products or equipment incorporating such products, which are caused under the conditions other than those specified in this specification.

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