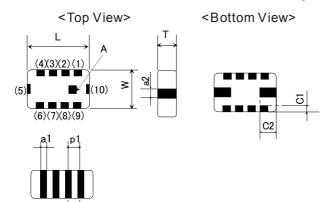


# **DUAL MATCHING FILTER (Preliminary)**

## 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	Tx	1.7 dB Max at +25°C. 1.95 dB Max at -40~+85°C	
Insertion Loss in BW	Rx	3.3 dB Max at +25°C. 3.6 dB Max at -40~+85°C	
Attenuation (Absolute value)	Tx	34.0 dB Min. at 2f0 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 r	nm)

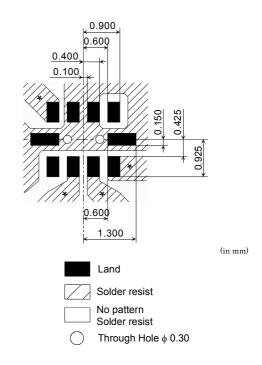
Mark	Dimension	Mark	Dimension
L	2.00±0.15	a2	0.30±0.15
w	1.25±0.15	c1	0.20±0.15
T	0.7max	c2	0.40±0.15
o 1	0.25±0.15	n1	0.50+0.15

## 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.

All the technical data and information contained herein are subject to change without prior notice.





### PLEASE READ THIS NOTICE BEFORE USING OUR PRODUCTS.

Please make sure that your product has been evaluated and confirmed from the aspect of the fitness for the specifications of our product when our product is mounted to your product.

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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- Aerospace equipment
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- Power plant control equipment
- Medical equipment.
- Transportation equipment (vehicles, trains, ships, elevator, etc.).
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- Burning / explosion control equipment
- Application of similar complexity and/ or reliability requirements to the applications listed in the above.

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When you are not able to return the signed version of specification sheet or approval sheet within 90 days from receiving date of specification sheet or approval sheet, it shall be deemed to be your consent on the content of specification sheet or approval sheet.

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In particular we disclaim liability for damages caused by

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- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001:
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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